

**Motorized Viewers  
Mammography Illuminators  
X-Ray Accessories Supplies**



**S&S X-Ray Products Inc.  
1101 Linwood Street  
Brooklyn NY 11208  
718-649-8500  
800-347-XRAY  
[www.ssxray.com](http://www.ssxray.com)**

# MAMMOGRAPHIC VERTICAL VIEWER

## MV800

PROGRAMMABLE SHADES WITH INDIVIDUAL PANEL SPECIFIC MEMORY

MOTORIZED VIEWERS

Here is our top of the line mammography motorized viewer, which features intuitive use, no obstructing strings, and exceeds all ACR requirements for mammography! **Four independent curtains** can easily be individually positioned by the technologist when the films are placed on the viewer (using the manual curtain controls or one of four programmable curtain presets), and their position stored into the frame-specific memory with the push of a button. When the particular "frame" is accessed by the radiologist, the shades will **automatically** go to the position previously set, providing optimal **frame-specific shading** for all films on the viewer. The unit is designed with the comfort of the radiologist in mind, with extra leg room, a large work desk and easily accessible utility outlets.

**Variable intensity illumination** is standard, ranging from 100% down to 60% in increments of 10%. This allows the radiologist to select the proper level of illumination for a specific type of film, change the intensity for other films, and easily and precisely return to this original level. **High frequency energy efficient electronic ballasts** provide for flicker-free, reduced eyestrain viewing.

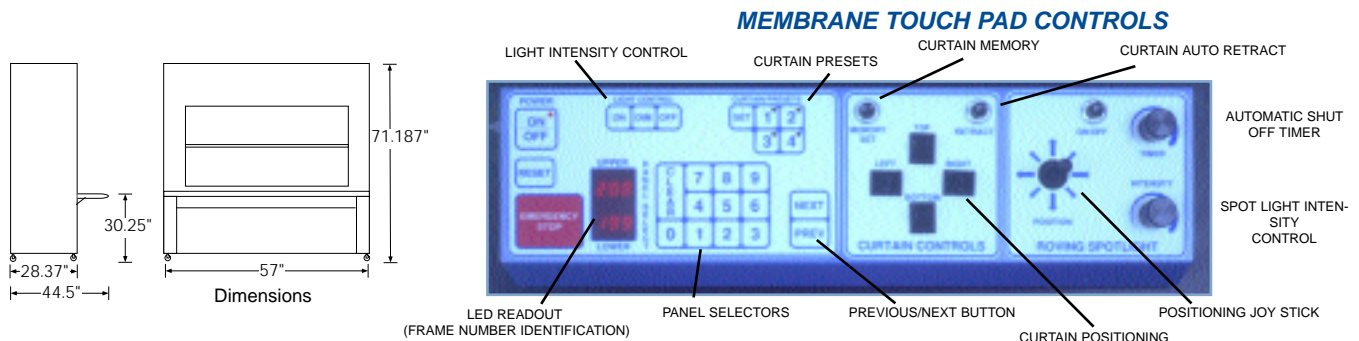
An optional **variable intensity bright spot** permits highlighting and focusing in on extra dense areas of the film. It can be moved to any location on the lower tier. The spotlight has been programmed to automatically find the non-shaded area when turned on. The positioning joystick can be used to move the spotlight to the precise location desired.



The **vertical transport belt features** exceptionally quiet and smooth operation. The MV800 has **200** frames and can hold **800** 20x30cm films (or 1200 18x24cm films). There are *no strings* to distract or obscure the viewing of films.

This viewer is ideal for **sequential interpretation** of film, and automatically centers the next set of films. The **standard auto-indexing** feature rapidly accesses a selected film (moving at a speed greater than one frame per second). Any film can be viewed in the upper or lower tier position. Previous/Next buttons or the **standard dual foot switch** can be used to move the transport belt and quickly center the adjacent films. **Angulated viewing of 5°** cuts glare.

To conserve energy, the units feature **auto-shutoff** when there is inactivity for 30 minutes. There is also the ability to program security codes into the machine to limit access to films loaded into the viewer.



**Base:** 2.5" Casters

**Finish:** Attractive durable baked on polyester, in light grey with blue sides. Shelf is finished in matching blue laminate with Oak bullnose trim.

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running-10 amps. For 220 volts, 50 HZ or other voltages, consult factory for details.

Approx. Weight: 840 Lbs.



# VERTICAL VIEWER MV220 / MV400

IDEAL FOR THE FULL SPECTRUM OF GENERAL RADIOLOGY



MOTORIZED VIEWERS

- MV220 or MV400 - VERTICAL VIEWER
- MV220C or MV400C - VIEWER W/ MOTORIZED CURTAINS
- MV220S or MV400S - VIEWER W/ ROVING SPOTLIGHT
- MV220CS or MV400CS - VIEWER W/CURTAINS AND SPOTLIGHT

This **versatile vertical belt automatic viewer** is ideal for *sequential interpretation of films*. The viewers feature advanced microprocessor control technology, smooth and quiet operation, and film viewing without obstructing strings! The standard **auto-indexing** feature rapidly accesses a selected frame (moving at a speed greater than one frame per second) and automatically centers the film in the proper viewing position.



**Variable intensity illumination**, ranging from 100% down to 60% in increments of 10%, allows the radiologist to select the proper level of illumination for a specific type of film, change the intensity for other films, and easily and precisely return to the original level. High frequency energy efficient electronic ballasts provide flicker free reduced eyestrain viewing.



The combination of a **microprocessor** and a coffee resistant **membrane touch pad control** insures years of trouble free use. The **vertical transport belt** features exceptionally quiet operation, and is designed to prevent film loss or damage while in the viewer. **Angulated viewing of 5°** cuts glare. The belt can accommodate any size film up to 14"x17". **Mix or match your film sizes with equal security of film retention.** Films slide easily and securely into narrow plastic grips on each frame. There are *no strings* to distract or obscure the viewing of films. The durable plastic film grips minimize the space between the top and bottom tier for ease of comparison.

**Eight 14"x17" films can be viewed simultaneously.** The units hold **220** or **400** 14"x17" films (greater quantity with smaller films).

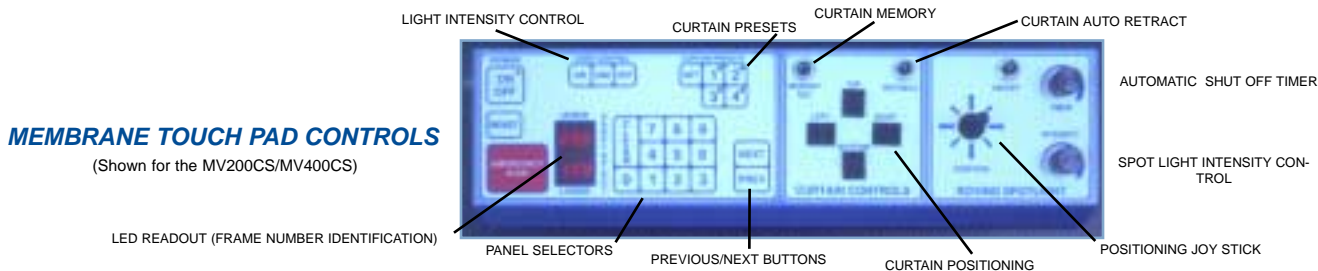
The C and CS models have **full manual and programmable shutter capability** allowing for proper collimation to any film format. When films are loaded into the viewer, the shade locations can be easily set manually (or through the use of one of four programmable presets) and programmed into the **frame-specific memory** with the touch of a button. The curtain memory can be easily individually set for each frame on the machine, so that when the radiologist calls up a specific frame, the curtains move automatically to their preset location for that particular set of films (Manual movement of the curtains can easily be used to fine tune the curtain locations). Optional customized belts are available and recommended (for C and CS models only) for mixing film formats, and in particular for mammographic films.

The **customized belt** enables the simultaneous display and full shading of 3 years of screening 18x24cm mammographic studies!

A joystick-controlled **variable intensity moving bright spot** can be quickly positioned anywhere on the lower tier to add the extra brightness needed to read dense film. When the bright spot is activated it rapidly locates the non-shaded region on the viewing surface, then turns on. Care was taken in the design of the control pad and in the programming of the unit so that all functions are intuitive to the user, and easily and quickly learned and assimilated.

To conserve energy, the units feature **auto-shutoff** when there is inactivity for 30 minutes. There is also the ability to program security codes into the machine to limit access to films loaded into the viewer.

The C and CS models with fully **programmable motorized shades (with frame specific memory in addition to programmable memory presets)** easily **exceed the proposed ACR requirements for mammography.**



**Lighting:** MV220, MV220S, MV400, MV400S: 4 - 15 Watt Daylight fluorescent vertical bulbs per section. MV220C, MV220CS, MV400C, MV400CS 14 - 60 Watt Daylight fluorescent horizontal bulbs per viewer.

**OPTIONS:** **MV220-2 FOOT SWITCH** - Hands free selection of frames (scan frames either forward or back).

**MOTORIZED CURTAINS: FULL SHUTTER CAPABILITY** Four curtains adjust independently for any opening size or location. Curtain memory can be set individually for automatic collimation of each frame.

**CUSTOMIZED BELTS:** (C & CS models only) Design your belt to fit your needs - consult factory.

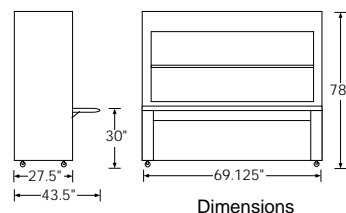
**ROVING SPOTLIGHT:** (Bottom Tier Only) Spotlight can be positioned anywhere on the lower tier with the touch of the joystick. Roving spotlight is programmed to coordinate with automatic collimation of shutters and will automatically move to the open area when activated. To allow the bright spot to move, the standard internal dividers are removed.

**Base:** 2.5" Swiveling Casters

**Finish:** Attractive durable baked on polyester, in light grey with blue sides. Shelf is finished in blue laminate with Oak bullnose trim.

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running-10 amps.

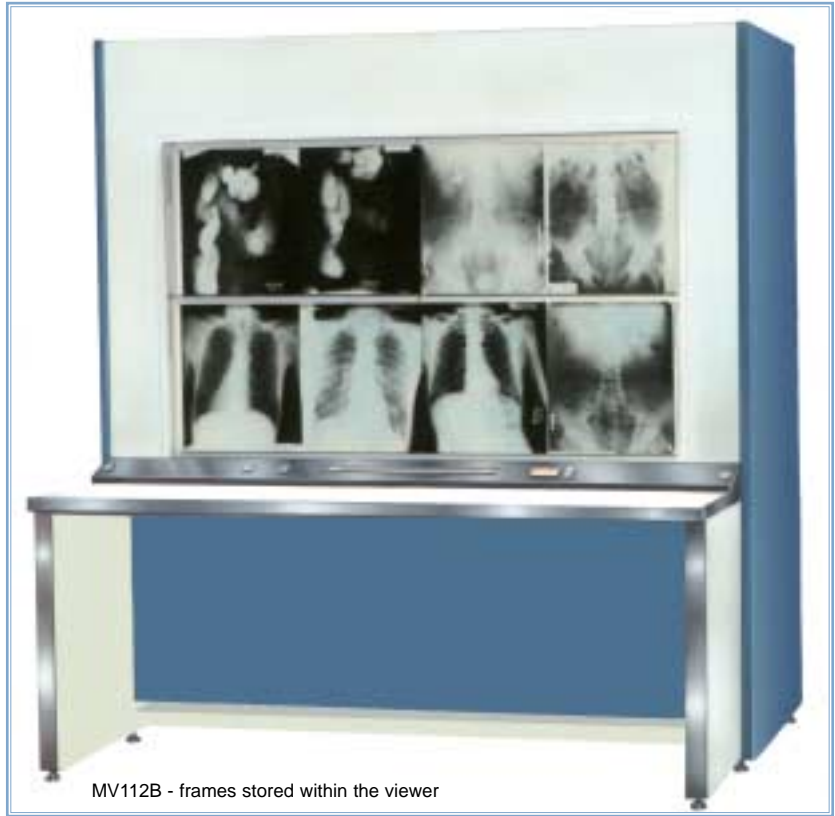
**Approx. Weight:** MV220 - 1140 Lbs., MV400 - 1190 Lbs.



The MV112 series are **true random access** motorized viewers. These are ideal for departments where any study on the viewer may have to be rapidly accessed at any time. Desired **frames are selected in pairs** by lighted, **numbered push buttons** and are automatically brought into the viewing area in seconds. For closer study, at a touch of a switch, the upper viewing panel is moved to the lower viewing area and the illumination in the upper section is automatically turned off.

The **random access** design of this unit allows you to reach any frame in 12 seconds or less. View **8 14"x17" films simultaneously**. This unit holds **112 14"x17" films** on 28 durable plexiglas panels (greater quantity with smaller films). Three thin adjustable nylon cords hold small film securely in place without obstructing the view. Top and bottom film grips secure 14"x17" films.

The **controls are located on the central console**. There are 27 lighted push button *panel selector switches*, 8 push button switches to control lighting in each viewing area, 3 viewing mode switches for illumination (on/off/individual), 2 Panel control switches, one master power switch, and 2 utility outlets.



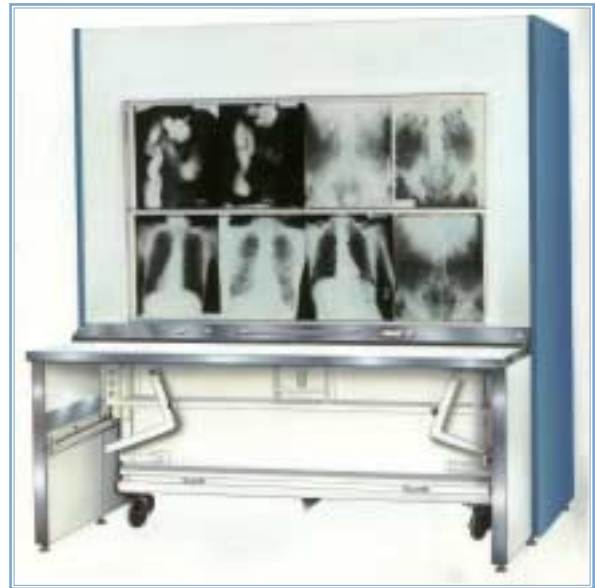
MV112B - frames stored within the viewer

**MV112A - Mobile magazine holding 28 frames can be preloaded and easily rolled from viewer to the viewer. (Additional magazines are available, increasing the viewing capacity of the MV112A)**

**MV112B - Fixed magazine of 28 viewing frames**



**MV112AM** MOBILE MAGAZINE for the MV112A - collapsible handles and pivot wheels make it extremely easy to move

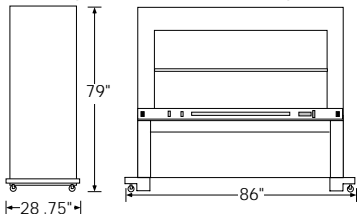


MV112A - with mobile magazine

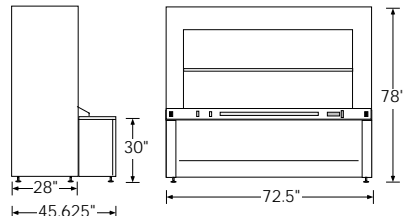
**Available Option: Hand Held Random Access Remote Control: (MV112RC)** This solid state electronic remote control is ideal for use in lectures, conferences and teaching sessions. This unique hand held unit allows the selecting and changing of frames while retaining full freedom of movement for the operator and an unobstructed view of the subject films for the members of the viewing audience. Must be factory installed.



Shipping Dimensions (on shipping dollies)



Installed Dimensions



**Base:** Leveling legs

**Finish:** Attractive durable baked on polyester, in light grey with blue sides. Shelf is finished in white laminate./ **Approvals :** ETL

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running-10 amps. For 220 volts, 50 HZ or other voltages, consult factory for details.

Approx. Weight: MV112A - 1800 lbs. MV112B - 1500 lbs.



The MV216, MV324 and MV1436 are our larger capacity true random access motorized viewers. These viewers are ideal for high volume applications, where short access times to any film on the motorized viewer is required. The random access feature minimizes the disruption of clinician consultations, with rapid non-sequential retrieval of any film on the viewer, and quick return to the film being interpreted. Standard on these viewers is automatic frame select (with push button controls), Individual lighting per viewing section, and durable plexiglas panels with film grips. Each panel features adjustable thin nylon cords hold film securely in place without obstructing vision.

**MV216 and MV324**

Desired frames are selected by lighted, numbered push buttons and are automatically brought into the viewing area in seconds. For closer study, at a touch of a switch, the upper viewing tier is moved to the lower viewing area and the illumination in the upper section is automatically turned off. The MV216 holds 216 14"x17" (27 frames per unit), and displays eight 14"x17" films simultaneously. The MV324 holds 324 14"x17" (27 frames per unit), and displays twelve 14"x17" films simultaneously.

**Controls (MV216 - MV324):** Located on the central console are the push button panel selector buttons, individual light control buttons, master power switch, viewing mode switches and 2 utility outlets.

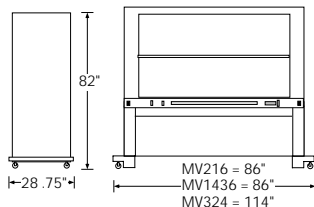
The MV1436 is designed specifically for the viewing of 14"x36" film. It holds 108 14"x36" (27 frames per unit) and displays four 14"x36" films simultaneously. The MV1436 has four divided viewing areas with individually controlled lighting.

**Available Option: Hand Held Random Access Remote Control: (MV216RC, MV324RC or MV1436RC)** This solid state electronic remote control is ideal for use in lectures, conferences and teaching sessions. This unique hand held unit allows the selecting and changing of frames while retaining full freedom of movement for the operator and an unobstructed view of the subject films for the members of the viewing audience. Must be factory installed.

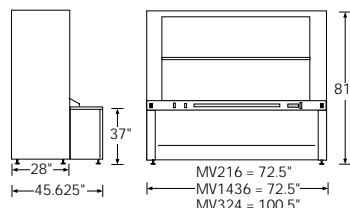


**Controls (MV1436):** Located on the central console are 27 push button panel selector buttons, 4 individual light control buttons, master power switch and 2 utility outlets.

Shipping Dimensions (on shipping dollies)



Installed Dimensions



**Base:** Leveling legs

**Finish:** Attractive durable baked on polyester, in light grey with blue sides. Shelf is finished in white laminate. **Approvals :** ETL

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running- 10 amps - MV216, MV1436; 13 amps - MV324. For 220 volts, 50 HZ or other voltages, consult factory for details.

Approx. Weight: MV216 - 1600 lbs    MV324 - 1900 lbs.    MV1436 - 1500 lbs.

The **MV48** and **MV72** are designed for use in smaller departments and offices which do not require higher capacity viewers or where floor space is at a premium. *Mobile* and *spacesaving* these **random access** viewers reach any frame in **7 seconds or less**. The **MV48** has a film capacity of **48** 14"x17" (greater with smaller films) and has 12 frames per unit. The **MV72** has a film capacity of **72** 14"x17" (greater with smaller films), and has 18 frames per unit. Both motorized viewers **display 8 14"x17" films simultaneously**. Desired **frames are selected in pairs** by lighted, **numbered push buttons** and are automatically brought into the viewing area in seconds. Both models have **individual lighting per viewing section**, and durable plexiglas panels with film grips. Adjustable thin nylon cords hold films securely in place without obstructing vision).

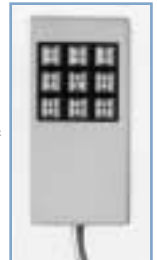
The MV48 and MV72 can be **easily moved from room to room and plug into any standard electrical outlet**. They are frequently placed in ICU's to provide on the spot review of patient's past and present films. No special installation is required.



**MV48** shown with optional **folding shelf** (MV48AC) Controls: Located on the central console are the push button panel selector buttons, individual light control switches, master power switch, and two utility outlets.

**Available Options:**

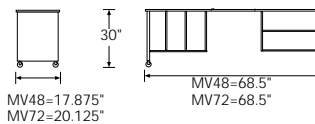
**Hand Held Random Access Remote Control: (MV48RC or MV72RC)** This solid state electronic remote control is ideal for use in lectures, conferences and teaching sessions. This unique hand held unit allows the selecting and changing of frames while retaining full freedom of movement for the operator and an unobstructed view of the subject films for the members of the viewing audience. Must be factory installed.



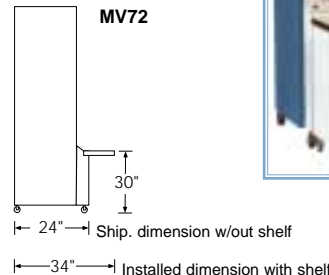
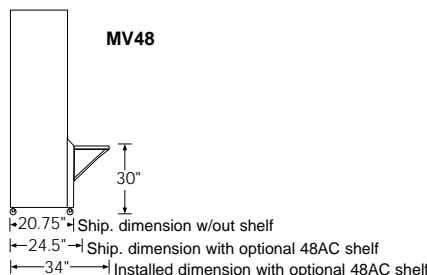
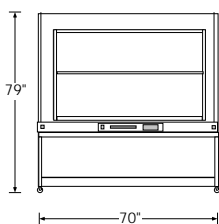
**Motorized Viewer Work Desk: (MV48AB or MC72AB)** A handsome, convenient and useful addition to a motorized viewer, this sturdy desk is designed with a **contoured formica top and divided storage sections** for film, records, etc. The desk is constructed of heavy gauge steel with a 1.25" thick white formica laminated top, edged in black vinyl. All steel parts are finished with a durable baked on polyester, in light grey.



**MV72** This removable laminated shelf comes as standard with this unit.



**MV48** with MV48AB work table



**Base:** 4" Ball Bearing Casters

**Finish:** Attractive durable baked on polyester, in light grey with blue sides. Shelf is finished in white laminate./ **Approvals :** ETL

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running - 10 amps. For 220 volts, 50 HZ or other voltages, consult factory for details.

Approx. Weight: MV48 - 850lbs. MV72 - 900 lbs.

# MV200QT / MV300QT MV200QTT / MV300QTT (with bright spot)



These viewers are our major upgrade to our MV200A, the viewer which set the standard worldwide for reliability and durability! The **sequential access MV200QT** and **MV300QT** are designed to maintain the tradition of being the proven **workhorses of radiology departments** worldwide. They maintain the long-lasting heavy duty design and construction of the MV200A but now incorporate **micro-processor controls**, brighter **variable intensity illumination**, new **unobtrusive membrane switches**, and have been made quieter! The advanced microprocessor controller and new DC motors provide exceptionally smooth and precise frame transport, and the maximum transport time to reach any frame on the machine has been reduced by 15%! Push button frame selection using a **membrane keypad** is standard as well as an up-down twin foot switch! **Previous/Next buttons** quickly center the adjacent films.

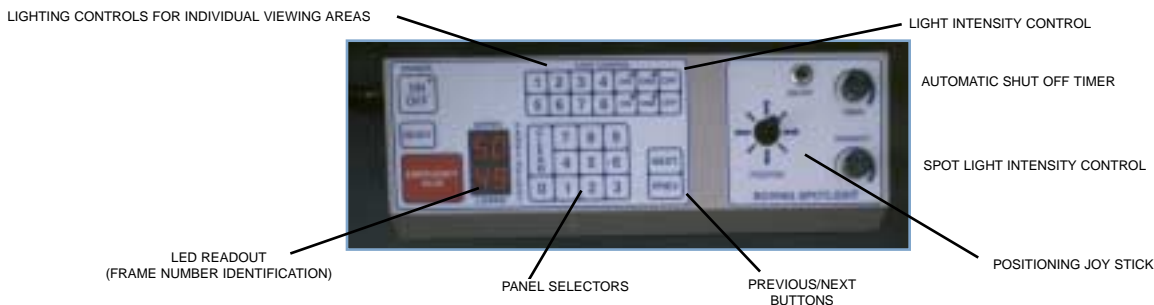
The MV200QT and MV300QT feature 50 durable plexiglass panels which are transported sequentially around the viewer. These plexiglass panels have top and bottom film grips. The **MV200QT** holds **200** 14"x17" films (50 frames per unit) **and displays 8** 14"x17" films simultaneously. The **MV300QT** holds **300** 14"x17" films (50 frames per unit) **and displays 12** 14"x17" films simultaneously. The panels utilize film retention strings to keep the films securely in place.

High frequency, *energy efficient electronic ballasts* provide for brighter, **uniform flicker-free film illumination**. Also standard is the

ability to dim these ballasts in increments of 10% from 100% down to 60% of maximum illumination to achieve the proper viewing conditions for a specific type of film. Both the MV200QT and the MV 300QT also feature **automatic shutoff** when inactive after a programmable time period to conserve energy! There is also the ability to program security codes into the machine to limit access to films loaded into the viewer.

The MV 200TT and MV300TT include a joystick-controlled variable intensity *moving bright spot*. The *bright spot* can be positioned anywhere on the viewing surface to provide high intensity illumination to interpret dense areas on radiographs. The moving bright spot is 3.5" in diameter and uses a Halogen lamp in a focused, thermostatically protected lens housing. A dimmer control, built into the switch console, controls lamp intensity. (The moving bright spot must be factory installed and cannot be added in the field. To allow the spotlight to move between viewing areas, the standard internal dividers are removed. Although control of lamps in each viewing section remains, light spillover between viewing areas may occur.)

### MEMBRANE TOUCH PAD CONTROLS



**Base:** Ball Bearing Casters

**Finish:** Attractive durable baked on polyester, in sliprock grey framed in off white. Shelf is black with oak trim.

**Electrical:** 118 volts, 60HZ AC, 1 phase, total amperage draw with all lights on and motor running - MV200QT: 12 amps., MV300QT 15 amps. For 220 volts, 50 HZ or other voltages, consult factory for details.

Approx. Weight: MV200QT - 1850 lbs. MV300QT - 2200 lbs.



The **MV200A** and the **MV300A** are the viewers that set the standard worldwide for reliability and durability! They are the proven *workhorses of radiology departments* worldwide. Vertical movement, of viewing panels, is controlled by an *up-down* footswitch.

**Two level illumination** per divided 14"x17" viewing section is controlled by three way toggle switches located on the switch console. A master switch for each tier is also supplied. Normal illumination is brighter than most conventional viewers and additional illumination for darker films is available at a flip of a switch.

The MV200A and MV300A feature 50 durable plexiglass panels which are transported sequentially around the viewer. These plexiglass panels have top and bottom film grips. The **MV200A** holds **200** 14"x17" films (50 frames per unit) **and displays 8** 14"x17" films simultaneously. The **MV300A** holds **300** 14"x17" films (50 frames per unit) **and displays 12** 14"x17" films simultaneously. These motorized viewers can reach any of the fifty panels in a maximum time of one minute or approximately 2.5 seconds per panel. The panels utilize film retention strings to keep the films securely in place.



MV200A with MV200T (Joystick controlled Moving Bright Spot)

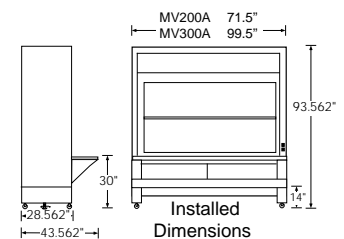
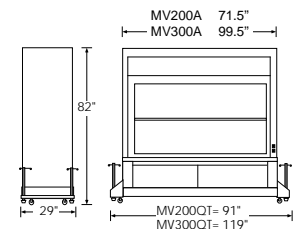
**Available Options:**

**Joystick-controlled variable intensity moving bright spot:** The **MV200T** (for the MV200A) and the **MV300T** (for the MV300A) *bright spot* can be positioned anywhere on the viewing surface to provide high intensity illumination to interpret dense areas on radiographs. The moving bright spot is 3.5" in diameter and uses a Halogen lamp in a focused, thermostatically protected lens housing. A dimmer control, built into the switch console, controls lamp intensity. (The moving bright spot must be factory installed and cannot be added in the field. To allow the spotlight to move between viewing areas, the standard internal dividers are removed. Although control of lamps in each viewing section remains, light spillover between viewing areas may occur.)

**Automatic Controller:** Model # **MV200C** is an automatic **50 push-button control system**. At the push of a numbered button, the MV200C will select the desired panel, move it in the fastest direction (forward or reverse) to the proper viewing position where it will automatically stop.



**Shipping Dimensions**  
(on shipping dollies)



**Base:** Ball Bearing Casters

**Finish:** Attractive durable baked on polyester, in light grey with a wood grain formica shelf.

**Electrical:** 118 volts, 60HZ AC, 1 phase. Two 3 conductor grounded power connections in rear. Separate lines for motor and lamp circuits should be provided to avoid lamp flicker. Motor: 1/2HP, 9 amps. Lighting: - MV200A: 10 amps., MV300A 15 amps. For 220 volts, 50 HZ or other voltages, consult factory for details.

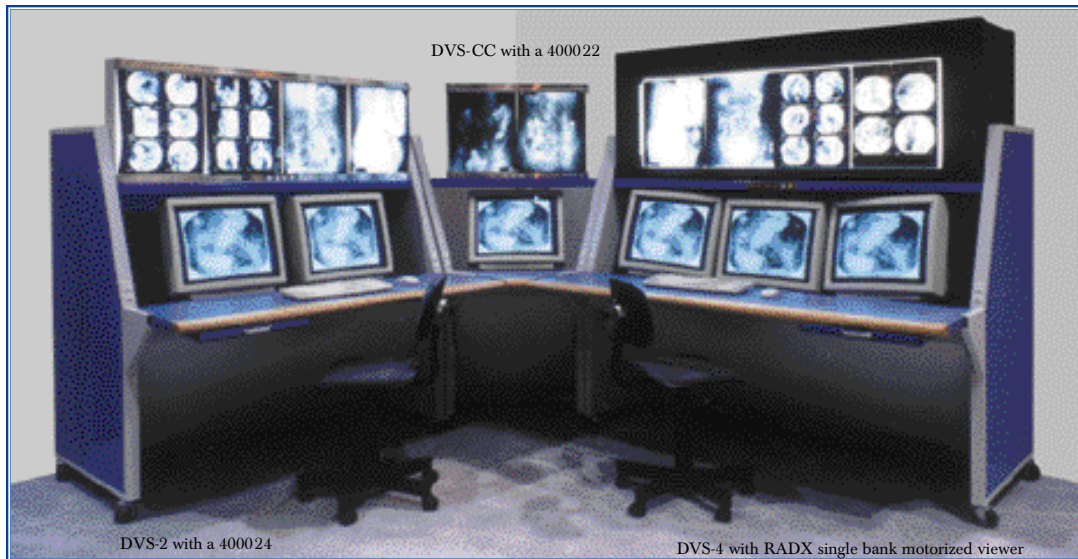
Approx. Weight: MV200A- 1850 lbs.

MV300A - 2200 lbs.





## DIGITAL VIEWING STATION



**DVS Corner Module:** DVS-CC fills a corner space and mates with a DVS station on each side. The modular design allows tailoring the *Digital Viewing Station* to suit available space and include all the features needed to maximize productivity.

*The Digital Viewing Station (DVS) is designed to help your department convert to new digital formats while still maintaining the presence of existing film technologies, and eliminates the need for custom carpentry.* You can easily place all the digital imaging devices in your current reading area on the DVS and cross reference film and digital images on one work station. Designed to improve radiologist's viewing comfort and efficiency this functional workstation provides a large work surface with pull out writing shelf, abundant legroom, easy access to two additional power outlets on each side (for laptop, dictation equipment or Bright Spot illuminator[see pg. 16])while its small footprint efficiently utilizes department floor space.

The adjustable top shelf is designed to hold up to a 6 bank illuminator (from the S&S 4000 Series), can accommodate a RADX single bank tabletop motorized viewer or can be used for monitors and peripherals. The top shelf is fully adjustable vertically to minimize the space between viewing surfaces.

The lower shelf is designed to hold computer monitors and peripherals at 0° or 20° angulation, and is fully adjustable vertically to ideally position the lower monitors.

The bottom support holds computer hardware and cabling. The optional hinged bottom front cover (DVS-Bx) hides the computer hardware and cabling without diminishing leg room.

The body of the Digital Viewing Station is constructed of cold rolled steel with a baked enamel finish. The work desk is covered with formica and has an oak bullnose front for durability. The DVS comes with adjustable leveling legs. Optional heavy duty casters are available for mobility.



Model DVS-2 shown with optional casters

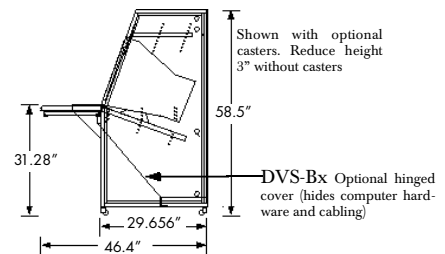
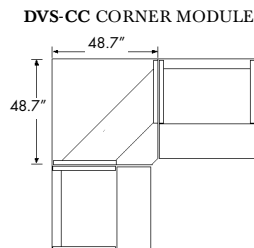
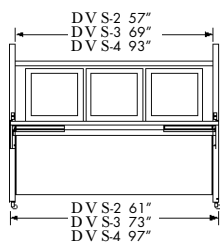


DVS-2 with a 400024 four bank illuminator

MODEL#	DESCRIPTION
DVS-2	Holds up to 2 monitors on the center shelf, and single to 4 bank illuminator on the top shelf
DVS-3	Holds up to 3 monitors on the center shelf, and single to 5 bank illuminator on the top shelf
DVS-4	Holds up to 4 monitors on the center shelf, and single to 6 bank illuminator on the top shelf
DVS-CC	Corner Module holds 1 monitor on the center shelf, and a 1 or 2 bank illuminator on the top shelf
DVS-Bx	Optional hinged bottom front cover for digital viewing station
DVS-C	Optional set of 4 heavy duty casters for digital viewing station

**Recommended Illuminator Series :**

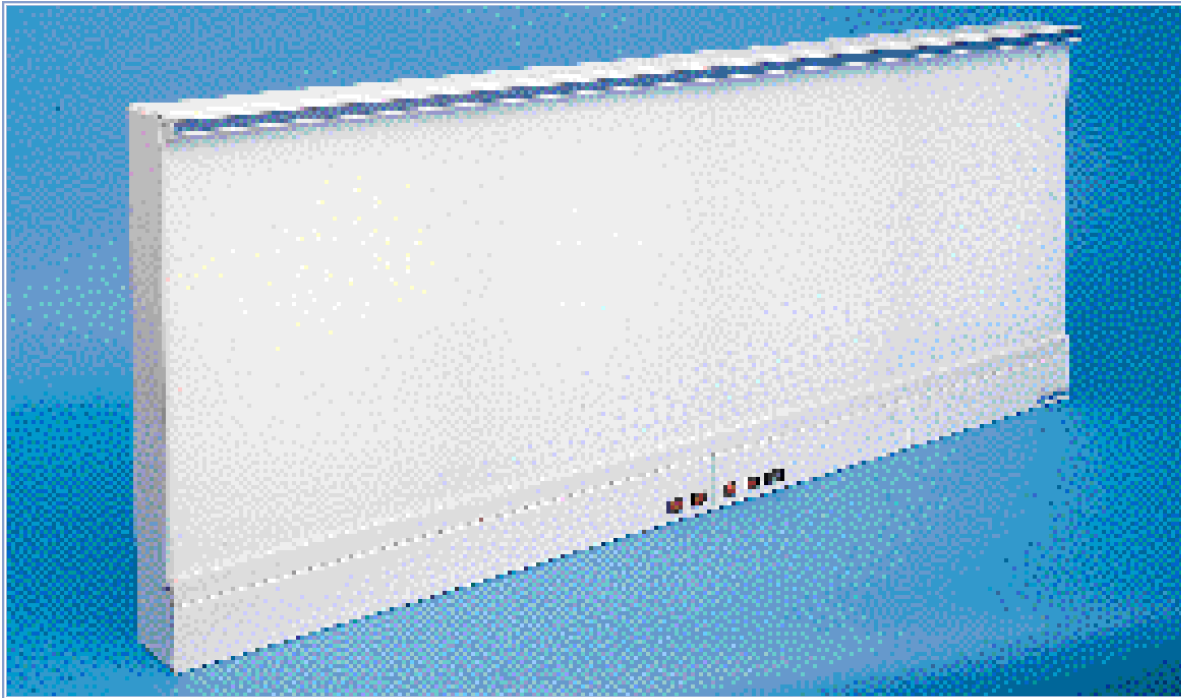
MODEL#	DESCRIPTION
400021	1 bank illuminator with autoswitches for DVS-CC
400022	2 bank illuminator with autoswitches for DVS-CC
400024	4 bank illuminator with autoswitches for DVS-2
400025	5 bank illuminator with autoswitches for DVS-3
400026	6 bank illuminator with autoswitches for DVS-4



US Patent #5980004

# CHAMELEON SERIES

*Blends With Any Décor*



Four Bank Surface Mounted Model (101204)

The **Chameleon Illuminator Series** combines a slim, sleek appearance (3<sup>3</sup>/<sub>8</sub>" depth), with color-customizable trim. This cost efficient illuminator is designed to accentuate the warm, professional appearance of your reading room or consultation area. The units can be highlighted with *trim in a choice of ten colors*, polished stainless steel or primed strip (the latter can be easily painted to color coordinate within a facility). Constructed of durable steel with a white powder-coat finish, this series is available in 2 lamps, 3 lamps and 4 lamps per viewing area models.

Trigger start ballasts, separated viewing sections, centered cluster switches, one piece plexiglass fronts and continuous gravity film grips are standard with this series. A bottom ledge film support coupled with the continuous film grip guarantees maximum freedom for viewing small or large films. Each section is individually controlled by rocker switches mounted at the bottom center of the illuminator. Master switches are provided on units of three banks or more. The Chameleon Illuminator can also be incorporated into a corner module.

### Trim Colors

S&S Blue	Sandstone Beige	Sliprock Grey	Target Red	Buttercup Yellow
Dusty Rose	Agean Blue	Caribbean Teal	Winter Spruce	Blue Ridge



**Finish:** White Baked Enamel

**Electrical:** Viewers operate on 120 volt, 60 Hz. **2 Lamp Series:** .47 amps per section, **3 Lamp series:** .61 amps per section, **4 Lamp series:** 1.0 amps per section. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

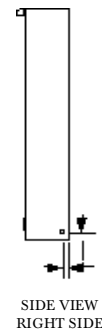
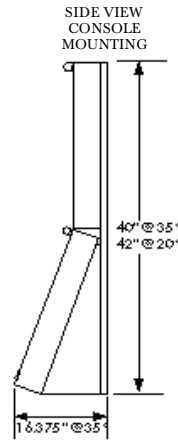
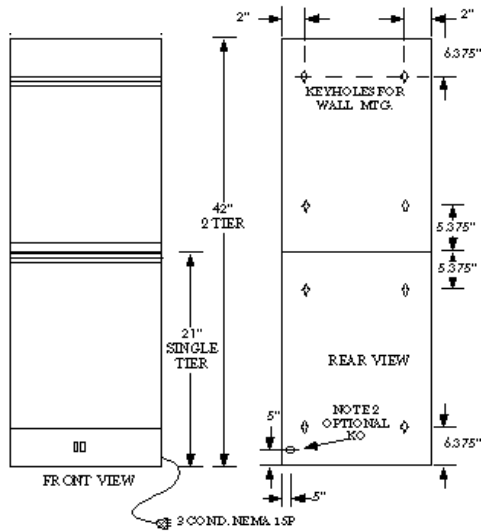
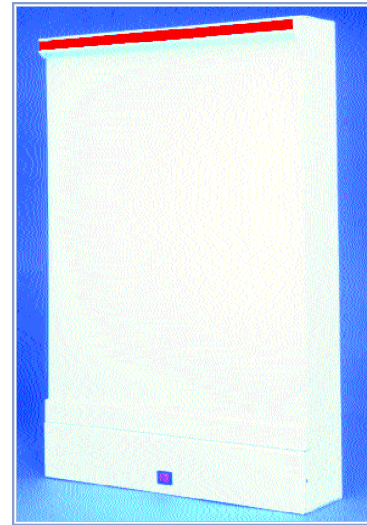
\* **Optional Items:** Modular Mobile system (pg B-23), mobile stand, console arms, angulated viewing system (pg B-25) corner modules (pg B-24), hospital grade plugs (pg B-30).



# CHAMELEON SERIES

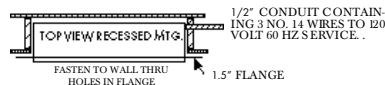
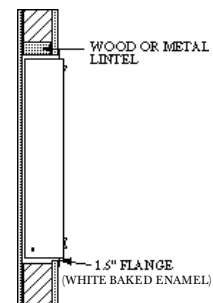
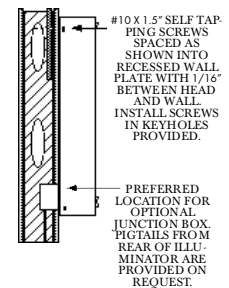
## SURFACE MOUNTED MODELS

VIEWING AREA	EXTERIOR DIM		APPROX SHIP WT	101 SERIES TWO LAMP		101 SERIES THREE LAMP		101 SERIES FOUR LAMP		
	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	
Single Bank	14"x17"	14"	21"	23 lbs	101201	101221	101301	101321	101401	101421
Two Bank	28"x17"	28"	21"	46 lbs	101202	101222	101302	101322	101402	101422
Three Bank	42"x17"	42"	21"	69 lbs	101203	101223	101303	101323	101403	101423
Four Bank	56"x17"	56"	21"	90 lbs	101204	101224	101304	101324	101404	101424
Five Bank	70"x17"	70"	21"	113 lbs	101205	101225	101305	101325	101405	101425
Six Bank	84"x17"	84"	21"	136 lbs	101206	101226	101306	101326	101406	101426
<b>TWO TIER</b>										
1 over 1	2 x 14"x17"	14"	42"	46 lbs	101211	101231	101311	101331	101411	101431
2 over 2	2 x 28"x17"	28"	42"	92 lbs	101212	101232	101312	101332	101412	101432
3 over 3	2 x 42"x17"	42"	42"	138 lbs	101213	101233	101313	101333	101413	101433
4 over 4	2 x 56"x17"	56"	42"	180 lbs	101214	101234	101314	101334	101414	101434
5 over 5	2 x 70"x17"	70"	42"	226 lbs	101215	101235	101315	101335	101415	101435
6 over 6	2 x 84"x17"	84"	42"	272 lbs	101216	101236	101316	101336	101416	101436



## RECESSED MODELS

VIEWING AREA	EXTERIOR DIM		WALL OPENING		APPROX SHIP WT	101 SERIES TWO LAMP		101 SERIES THREE LAMP		101 SERIES FOUR LAMP		
	WIDTH	HGT	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	
Single Bank	14"x17"	14"	21"	14.25"	21.25"	23 lbs	101241	101261	101341	101361	101441	101461
Two Bank	28"x17"	28"	21"	28.25"	21.25"	46 lbs	101242	101262	101342	101362	101442	101462
Three Bank	42"x17"	42"	21"	42.25"	21.25"	69 lbs	101243	101263	101343	101363	101443	101463
Four Bank	56"x17"	56"	21"	56.25"	21.25"	90 lbs	101244	101264	101344	101364	101444	101464
Five Bank	70"x17"	70"	21"	70.25"	21.25"	113 lbs	101245	101265	101345	101365	101445	101465
Six Bank	84"x17"	84"	21"	84.25"	21.25"	136 lbs	101246	101266	101346	101366	101446	101466
<b>TWO TIER</b>												
1 over 1	2 x 14"x17"	14"	42"	14.25"	42.25"	46 lbs	101251	101271	101351	101371	101451	101471
2 over 2	2 x 28"x17"	28"	42"	28.25"	42.25"	92 lbs	101252	101272	101352	101372	101452	101472
3 over 3	2 x 42"x17"	42"	42"	42.25"	42.25"	138 lbs	101253	101273	101353	101373	101453	101473
4 over 4	2 x 56"x17"	56"	42"	56.25"	42.25"	180 lbs	101254	101274	101354	101374	101454	101474
5 over 5	2 x 70"x17"	70"	42"	70.25"	42.25"	226 lbs	101255	101275	101355	101375	101455	101475
6 over 6	2 x 84"x17"	84"	42"	84.25"	42.25"	272 lbs	101256	101276	101356	101376	101456	101476



ALL MEASUREMENTS ARE ± 1/16"



# 148004 / 149004 PRECISION MAMMOGRAPHY SERIES



Two Tier (148014) shown on Modular mobile System (with 168004 - formica top; two 168010 - bases with vertical partitions and 168039 - mounting arms-adj. 0° to 35°)

Here is the illuminator built to meet the demands of the discriminating radiologist! Four individually controlled counterbalanced curtains per tier (on the top, bottom, left and right sides of the viewing screen) allow the user to collimate down to the exact size opening needed to block out excess light (curtains can close completely!), and optimize the radiologist's ability to discern minimal changes in density on the mammographic study. This series exceeds ACR requirements. Special high output electronic ballasts and four fluorescent bulbs per section give an extremely bright and flicker-free illuminated surface. Lighting is individually controlled per viewing section. The 148004 series has a viewing area of 96x30cm per tier (view 4 - 24x30cm or 6-18x24cm films), the 149004 series has a viewing area of 56"x17" per tier (view 6 - 24x30cm, 8 - 18x24cm or 4 - 14"x17" films).

Film grips are provided on the top and bottom of the viewing area for optimum film handling. The compact design of this illuminator requires a minimum amount of wall space. Easy access to the inside of the front of the illuminator allows for fast lamp changes.

To enhance this series further a number of options are offered (see below). These options, such as Two Level (normal and high) Illumination (high is the standard illumination on these viewers - Standard (high) lighting in the 149004 series may be too bright for normal chest radiographs.), Optional Configuration of the horizontal curtain control (for the 149014 only)\*, Console Arms and Angulated Viewing System must be specified at time of order. They need to be factory installed and cannot be added at a later date.

\* On the 149014, the standard configuration has slide control knobs for the top bank on the top of the top bank. When wall mounted, these top knobs may be as high as 78" (6.5" from the floor, which is too high for the altitude-challenged professional. For this purpose, we recommend the optional configuration (which does increase the spacing between top and bottom films by 4") - see diagram below.

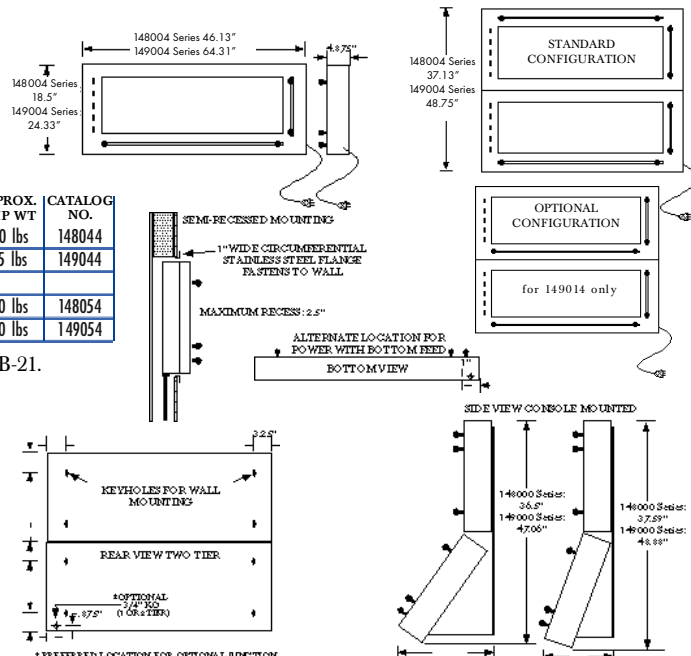
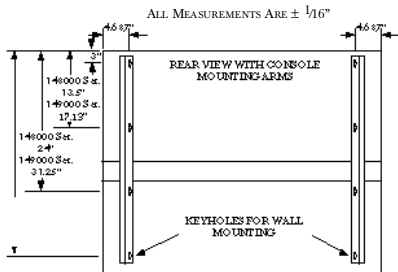
### SURFACE MODELS

DEPTH OF VIEWER - 4.875"				
VIEWING AREA				
(MAXIMUM FILM CONFIGURATION)	WIDTH	HGT	APPROX. SHIP WT	CATALOG NO.
(4x)24x30cm or (5x)18x24cm	46.125"	18.5"	100 lbs	148004
(4x)14"x17" or (5x)24x30cm or (7x)18x24cm	64.312"	24.328"	165 lbs	149004
TWO TIER				
(8x)24x30cm or (10x)18x24cm	46.125"	37.125"	180 lbs	148014
(8x)14"x17" or (10x)24x30cm or (14x)18x24cm	64.312"	48.75"	320 lbs	149014

### SEMI-RECESSED MODELS

MAXIMUM RECESS - 2.5" IN WALL					
VIEWING AREA					
(MAXIMUM FILM CONFIGURATION)	WIDTH	HGT	WALL OPENING WIDTH	APPROX. SHIP WT	CATALOG NO.
(4x)24x30cm or (5x)18x24cm	46.125"	18.5"	46.375"	18.75"	148044
(4x)14"x17" or (5x)24x30cm or (7x)18x24cm	64.312"	24.328"	64.562"	24.578"	149044
(8x)24x30cm or (10x)18x24cm	46.125"	37.125"	46.375"	37.375"	148054
(8x)14"x17" or (10x)24x30cm or (14x)18x24cm	64.312"	48.75"	64.562"	49"	149054

For mammography viewers without shades see page B-21.



**Finish:** White baked enamel (on cold rolled steel).

**Electrical:** Viewers operate on 120 volt, 60 Hz; Amps AC per viewing area: 148004 SERIES - .57 149004 SERIES - .65. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Semi-recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** Modular Mobile System (pg B-23), Angulated viewing system (pg B-25), hospital grade plugs, console arms, 68H custom formica shelf & 68HB wall mounting bracket (pg B-30). **When ordering Two Level Illumination**, place "HL" after the catalog number of the model chosen.

This quality illuminator is designed for the ease of comparison of sequential mammographic studies. Extraneous light is quickly and accurately collimated out using our *unique, counterbalanced manual shades* (which can close completely). High output, energy efficient, electronic ballasts minimize noise and eliminate the need for annoying fans. Nine F40/D865 daylight fluorescent bulbs and variable intensity lighting, ranging from 100% down to 60% in increments of 10%, allow the radiologist to select an optimal level of illumination for a specific type of film, change the intensity for other films, and easily and precisely return to this original level. The combination of *four independently operated shades for precise collimation* with minimal penumbra, and extremely bright and uniform variable intensity illumination, maximize the radiologists ability to uncover important subtle changes on mammograms. This illuminator **exceeds ACR requirements**.

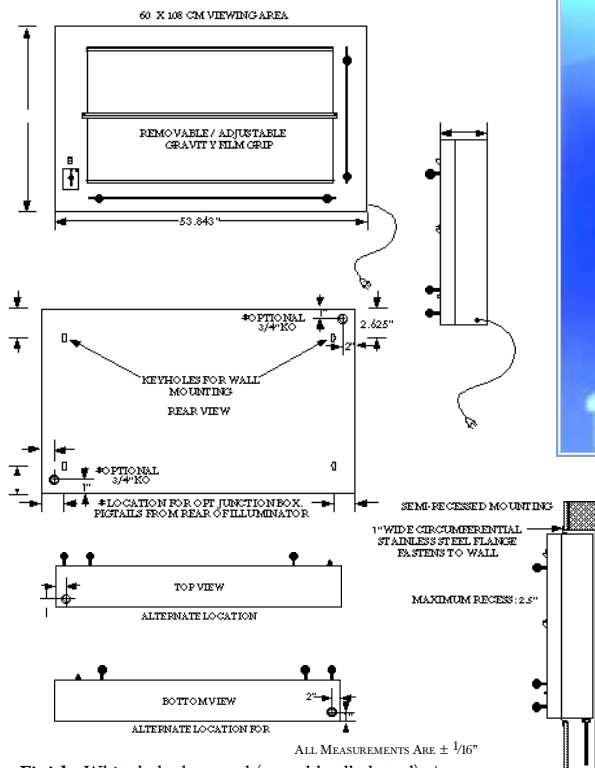
The unique design of this illuminator also allows its **customization for different format films**. Four film grips, with an adjustable center film grip, permit customized film placement on the uniformly illuminated surface. **Adjustment of this center film grip** allows the viewing of up to *eight 24x30cm* or *twelve 18x24cm* films with no extraneous light to hinder reading. By repositioning the center film grip *three 14"x17"* films can be read.

For mammography viewers without shades see page B-21.

Consult factory for other configurations.



Configured for viewing 24x30cm film. Shown on Modular mobile System (with 168004 - formica top; 168011- base with pull out shelf; 168010 - base with vertical partitions and 168040 - mounting arms)



Configured for viewing 14"x17" film

**SURFACE MODEL**

DEPTH OF VIEWER - 4.875	EXTERIOR DIM WIDTH	EXTERIOR DIM HGT	APPROX. SHIP WT	CATALOG NO.
VIEWING AREA (MAXIMUM FILM CONFIGURATION)				
(3x)14"x17" or (8x)24x30cm or (12x)18x24cm	53.843"	31.812"	180 lbs	149005

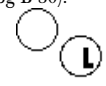
**SEMI-RECESSED MODELS**

MAXIMUM RECESS - 2.5" IN WALL	EXTERIOR DIM WIDTH	EXTERIOR DIM HGT	WALL OPENING WIDTH	WALL OPENING HGT	APPROX. SHIP WT	CATALOG NO.
VIEWING AREA (MAXIMUM FILM CONFIGURATION)						
(3x)14"x17" or (8x)24x30cm or (12x)18x24cm	53.843"	31.812"	54.093"	32.062"	182 lbs	149055

**Finish:** White baked enamel (on cold rolled steel). /

**Electrical:** Viewers operate on 120 volt, 60 Hz; 2.7 Amps AC. Surface mount models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** Modular Mobile System (pg B-23), hospital grade plugs, 68H custom formica shelf & 68HB wall mounting bracket (pg B-30).





Our latest addition to the Precision Mammography series of illuminators is designed for the simultaneous viewing of 6 24 x 30 cm mammography films in a single tier unit (or 6 over 6 in a double tier unit). Extraneous light is collimated with 4 independent, individually counterbalanced shades. The unit features variable intensity illumination, ranging from 100% down to 60% in increments of 10%. This quantum setup allows the radiologist to select an optimal level of illumination for a specific film technique, change the intensity to view other films, and easily and precisely return to the previous level of illumination. It easily exceeds the ACR requirements for light output.

- Four independent manual curtains (Counterbalanced for ease of movement)
- Variable intensity, extra bright illumination
- Flicker-Free high output electronic ballasts *for eye comfort*
- Gravity film grips
- Available in surface or semi-recessed models
- Energy efficient
- No noisy fans required
- Generates minimal heat
- Meets ACR requirements

Two Tier (149016) shown on Modular mobile System (with 168005 - formica top; two 168010 - bases with vertical partitions and 168039 - mounting arms-adj. 0° to 35°)

**SURFACE MODELS**

DEPTH OF VIEWER - 4.875"

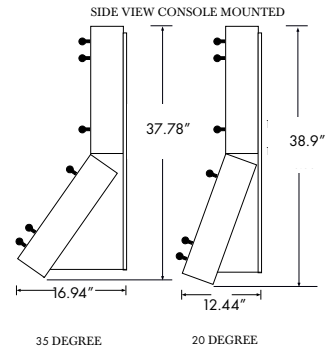
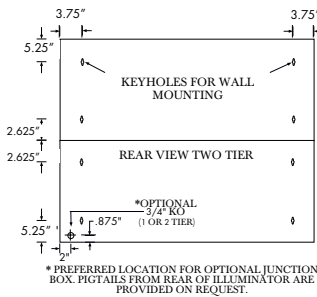
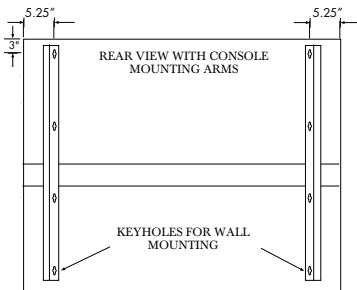
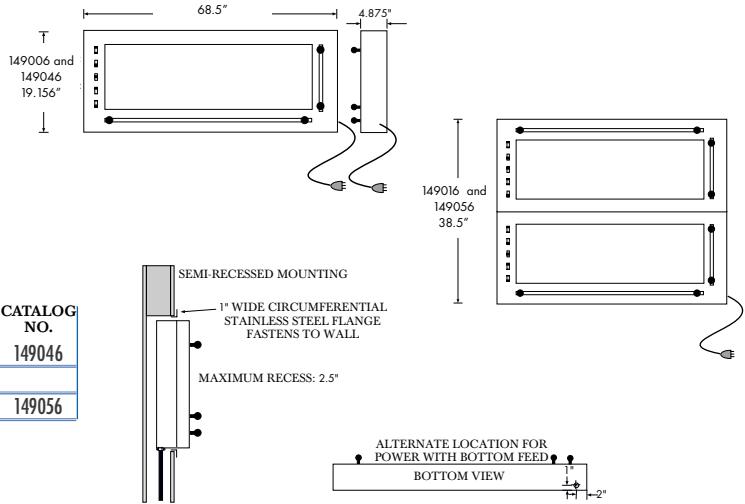
VIEWING AREA (MAXIMUM FILM CONFIGURATION)	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.
(6x)24x30cm or (8x)18x24cm	WIDTH	HGT		
	68.5"	19.156"	140 lbs	149006
<b>TWO TIER</b>				
(12x)24x30cm or (16x)18x24cm	68.5"	38.5"	240 lbs	149016

**SEMI-RECESSED MODELS**

MAXIMUM RECESS - 2.5" IN WALL

VIEWING AREA (MAXIMUM FILM CONFIGURATION)	EXTERIOR DIM		WALL OPENING		APPROX. SHIP WT	CATALOG NO.
(6x)24x30cm or (8x)18x24cm	WIDTH	HGT	WIDTH	HGT		
	68.5"	19.156"	68.75"	19.4"	140 lbs	149046
<b>TWO TIER</b>						
(12x)24x30cm or (16x)18x24cm	68.5"	38.5"	68.75"	38.75"	240 lbs	149056

ALL MEASUREMENTS ARE ± 1/16"

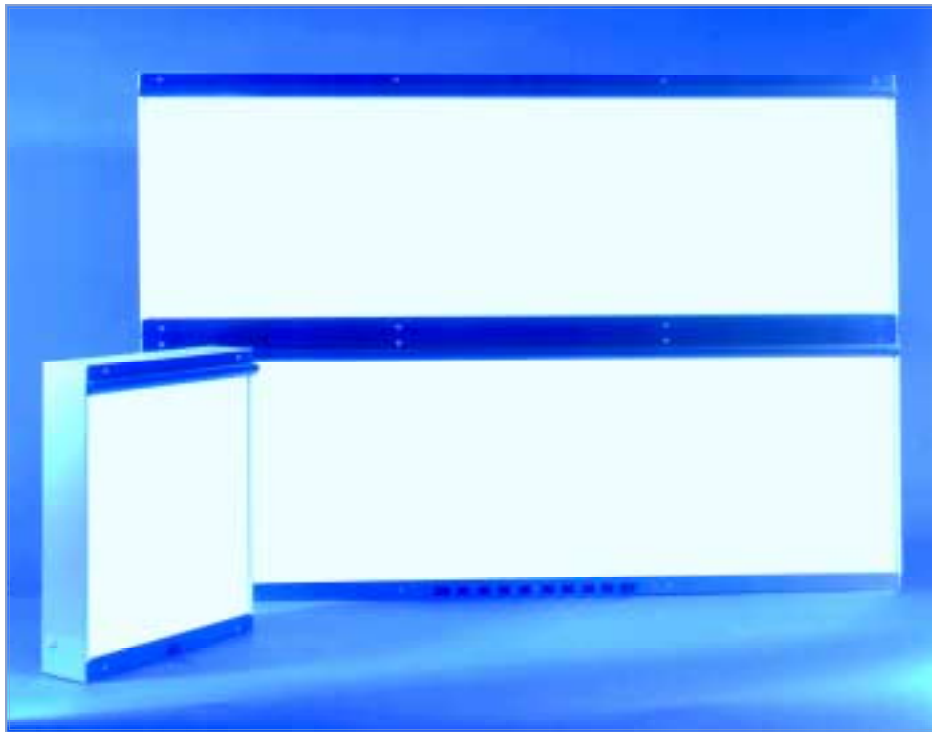


**Finish:** White baked enamel (on cold rolled steel).

**Electrical:** Viewers operate on 120 volt, 60 Hz; 1.6 Amps AC. Surface mount models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** Modular Mobile System, console arms, angulated viewing system, 68H custom formica shelf & 68HB wall mounting bracket, hospital grade plugs

# 2000 / 3000 / 4000 SERIES SURFACE OR RECESSED



The 2000/3000/4000/ Series **Illuminators** incorporate the most popular illuminator features, and *maintain our high quality standards*. Trigger start ballasts, internal dividers, centered cluster switches, one piece plexiglass fronts and continuous stainless steel gravity grips are supplied as standard with these illuminators. The special design of the 2000/3000/4000 series minimizes the space between the bottom of the viewing area and the bottom of the illuminator, leaving room underneath the illuminator for the ever present stack of x-ray studies.

The **4000 Illuminator Series** provides exceptionally bright lighting with four F15T8/D 15 watt daylight fluorescent tubes per 14"x17" viewing area.

The **3000 Illuminator Series** has three F15T8/D 15 watt daylight fluorescent tubes per 14"x17" viewing area.

The **2000 Illuminator Series** has two F15T8/D 15 watt daylight fluorescent tubes per 14"x17" viewing area.

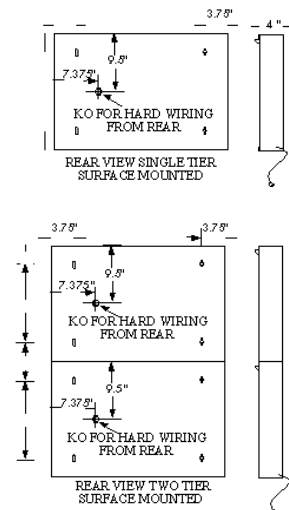
A **bottom ledge film support** coupled with the continuous stainless steel **gravity grip** guarantees maximum freedom for viewing small or large films. Each section is individually controlled by rocker switches mounted at the bottom center of the illuminator. Master switches are provided on units of three banks or more.

The illuminator is fabricated of steel with unibody construction and is designed to eliminate light leakage from seams and edges. Recessed models have welded recessing flanges and BX connector. Optional stainless steel recessing flanges are available upon request at the time of order.

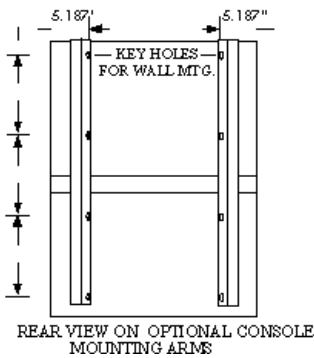
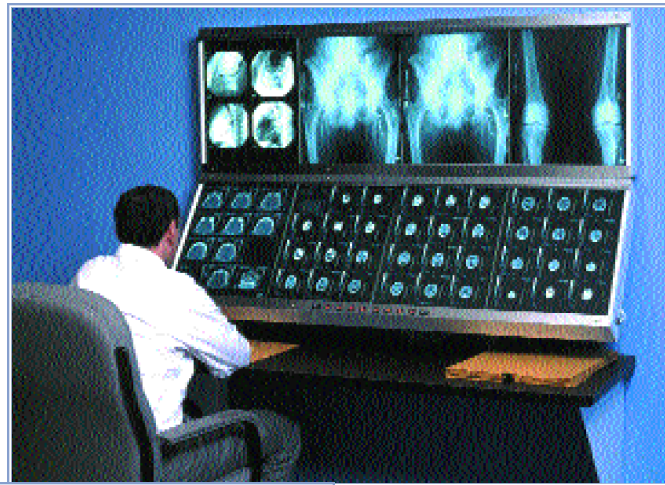
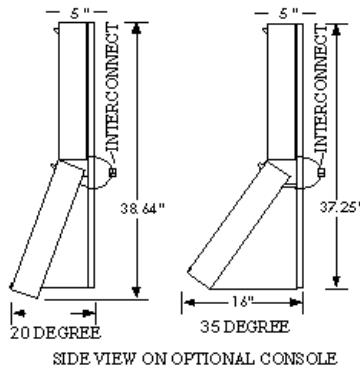
### DESK OR SURFACE MOUNTED MODELS

DEPTH OF VIEWERS: 4"			2000 SERIES TWO LAMP		3000 SERIES THREE LAMP		4000 SERIES FOUR LAMP		
VIEWING AREA	EXTERIOR DIM WIDTH	HGT	APPROX. SHIP WT	STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES
Single Bank 14"x17"	14.75"	19.156"	23lbs	200001	200021	300001	300021	400001	400021
Two Bank 28"x17"	28.75"	19.156"	39lbs	200002	200022	300002	300022	400002	400022
Three Bank 42"x17"	42.75"	19.156"	50lbs	200003	200023	300003	300023	400003	400023
Four Bank 56"x17"	56.75"	19.156"	70lbs	200004	200024	300004	300024	400004	400024
Five Bank 70"x17"	70.75"	19.156"	98lbs	200005	200025	300005	300025	400005	400025
Six Bank 84"x17"	84.75"	19.156"	115lbs	200006	200026	300006	300026	400006	400026
<b>TWO TIER</b>									
1 over 1 2 x 14"x17"	14.75"	38.312"	60lbs	200011	200031	300011	300031	400011	400031
2 over 2 2 x 28"x17"	28.75"	38.312"	100lbs	200012	200032	300012	300032	400012	400032
3 over 3 2 x 42"x17"	42.75"	38.312"	130lbs	200013	200033	300013	300033	400013	400033
4 over 4 2 x 56"x17"	56.75"	38.312"	180lbs	200014	200034	300014	300034	400014	400034
5 over 5 2 x 70"x17"	70.75"	38.312"	230lbs	200015	200035	300015	300035	400015	400035
6 over 6 2 x 84"x17"	84.75"	38.312"	290lbs	200016	200036	300016	300036	400016	400036

ALL MEASUREMENTS ARE ± 1/16"

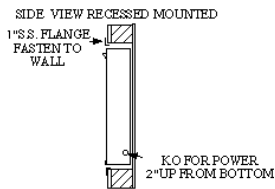






Surface mount: 200014 - Shown with 140103 Mobile Stand, 140110 pull-out shelf, 140111 shallow drawer, 140112 hinged recorder shelf, 188SM side mounted Bright Spot, and 140279 Angulated Viewing System

Surface mount: 400014 - Shown with 140272 Console Arms on custom made shelf and brackets.



**RECESSED MODELS**

VIEWING AREA	EXTERIOR DIM		WALL OPENING		APPROX SHIP WT	2000 SERIES TWO LAMP		3000 SERIES THREE LAMP		4000 SERIES FOUR LAMP	
	WIDTH	HGT	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES
Single Bank 14"x17"	14.75"	19.156"	15.25"	19.656"	23 lbs	200041	200061	300041	300061	400041	400061
Two Bank 28"x17"	28.75"	19.156"	29.25"	19.656"	39 lbs	200042	200062	300042	300062	400042	400062
Three Bank 42"x17"	42.75"	19.156"	43.25"	19.656"	50 lbs	200043	200063	300043	300063	400043	400063
Four Bank 56"x17"	56.75"	19.156"	57.25"	19.656"	70 lbs	200044	200064	300044	300064	400044	400064
Five Bank 70"x17"	70.75"	19.156"	71.25"	19.656"	98 lbs	200045	200065	300045	300065	400045	400065
Six Bank 84"x17"	84.75"	19.156"	85.25"	19.656"	115 lbs	200046	200066	300046	300066	400046	400066
<b>TWO TIER</b>											
1 over 1 2 x 14"x17"	14.75"	38.312"	15.25"	38.812"	60 lbs	200051	200071	300051	300071	400051	400071
2 over 2 2 x 28"x17"	28.75"	38.312"	29.25"	38.812"	100 lbs	200052	200072	300052	300072	400052	400072
3 over 3 2 x 42"x17"	42.75"	38.312"	43.25"	38.812"	130 lbs	200053	200073	300053	300073	400053	400073
4 over 4 2 x 56"x17"	56.75"	38.312"	57.25"	38.812"	180 lbs	200054	200074	300054	300074	400054	400074
5 over 5 2 x 70"x17"	70.75"	38.312"	71.25"	38.812"	230 lbs	200055	200075	300055	300075	400055	400075
6 over 6 2 x 84"x17"	84.75"	38.312"	85.25"	38.812"	290 lbs	200056	200076	300056	300076	400056	400076

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** White Baked Enamel, Stainless Steel Trim (welded on recessing flanges are white baked enamel)

**Electrical:** Viewers operate on 120 volt, 60 Hz. **2000 Series:** .47 amps per section, **3000 series:** .61 amps per section, **4000 series:** 1.0 amps per section. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

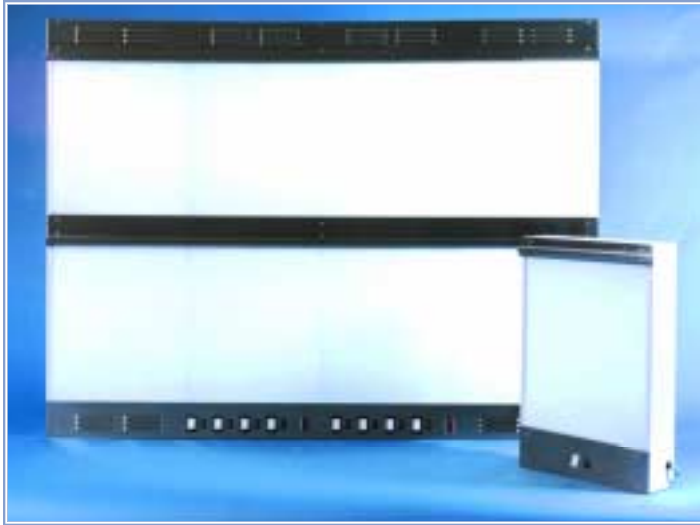
\* **Optional Items:** Modular Mobile system (pg B-23), mobile stand, console arms, angulated viewing system (pg B-25) corner modules (pg B-24), hospital grade plugs (pg B-30).



# 2X SERIES / 4X HI - LOW



## ILLUMINATORS



Desk or Surface Mount

The **2X Series** and the **4X Hi-Low Series** Illuminators are our top of the line illuminators. Their classic look is matched with **superior light distribution**. Available for **surface** or **recessed** mounting in sizes from one to six banks wide and one or two tiers high, they can be combined with our Modular Mobile System, Mobile Stand, Console Arms, Angulated Viewing System, or Corner Modules to form a state of the art viewing station.

*Low leakage instant on ballasts*, internal dividers (to prevent light "spill over"), centered cluster switches, *optional film activated switches*, one piece plexiglass fronts and continuous stainless steel *gravity film grips* are supplied as standard with this series. A master on/off switch is also supplied for each tier of three or more banks.

Each tier of the illuminator is of one piece heavy duty steel construction. Professionally welded and ground seams on this viewbox provide exceptional rigidity and strength. Distracting light leakage has been eliminated.

Recessed models come complete with recessing flanges (in white baked enamel) permanently welded to the case. Holes are provided in the flange for ease of mounting.

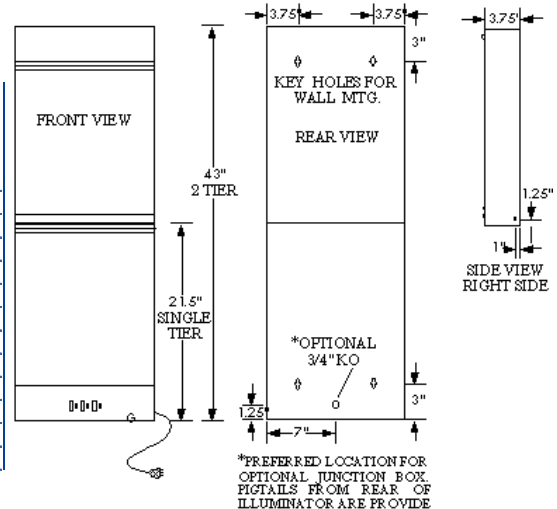
The **4X Hi-Low Illuminator Series** has a unique *four tube dual brightness system* which provides *two levels of light intensity*. Each 14"x17" viewing area has four F15T8/D fluorescent tubes, two *low leakage thermally protected ballasts* and specially designed reflectors. On the low setting light distribution is far superior to conventional two tube viewers. When additional illumination is required a touch of a switch increases the light output of the four lamps to their maximum brightness. Each viewing section is controlled by an on/off rocker switch and a Hi-Lo brightness selector switch. A master on/off switch is also supplied for each tier of three or more banks. All Switches are grouped together and mounted in the center of the front panel on the bottom tier.

### DESK OR SURFACE MOUNTED MODELS

DEPTH OF VIEWERS: 3.75"

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	2X SERIES TWO LAMP		4X SERIES FOUR LAMP	
	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES
Single Bank 14"x17"	14.75"	21.5"	30 lbs	2X0041	2X0001	4X0041	4X0001
Two Bank 28"x17"	28.75"	21.5"	60 lbs	2X0042	2X0002	4X0042	4X0002
Three Bank 42"x17"	42.75"	21.5"	90 lbs	2X0043	2X0003	4X0043	4X0003
Four Bank 56"x17"	56.75"	21.5"	120 lbs	2X0044	2X0004	4X0044	4X0004
Five Bank 70"x17"	70.75"	21.5"	150 lbs	2X0045	2X0005	4X0045	4X0005
Six Bank 84"x17"	84.75"	21.5"	160 lbs	2X0046	2X0006	4X0046	4X0006
<b>TWO TIER</b>							
1 over 1 2 x 14"x17"	14.75"	43"	60 lbs	2X0051	2X0011	4X0051	4X0011
2 over 2 2 x 28"x17"	28.75"	43"	120 lbs	2X0052	2X0012	4X0052	4X0012
3 over 3 2 x 42"x17"	42.75"	43"	180 lbs	2X0053	2X0013	4X0053	4X0013
4 over 4 2 x 56"x17"	56.75"	43"	240 lbs	2X0054	2X0014	4X0054	4X0014
5 over 5 2 x 70"x17"	70.75"	43"	300 lbs	2X0055	2X0015	4X0055	4X0015
6 over 6 2 x 84"x17"	84.75"	43"	360 lbs	2X0056	2X0016	4X0056	4X0016

ALL MEASUREMENTS ARE ± 1/16"



The **2X Illuminator Series** provides bright uniform lighting with two F15T8/D fluorescent tubes in each 14"x17" viewing area, and specially designed reflectors. Low leakage thermally protected ballasts provide instant flicker free starting. Each viewing area is controlled by an on/off rocker switch. A master on/off switch is also supplied for each tier of 3 or more banks and all switches are grouped together and mounted in the center of the front panel on the bottom tier.



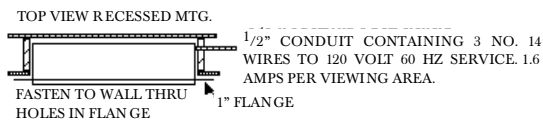
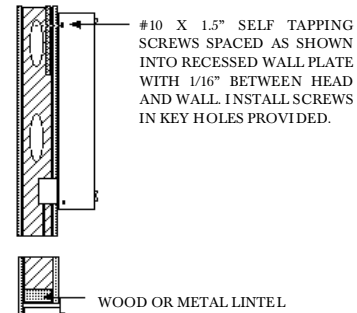
Recessed Mount: 4X0034

### RECESSED MODELS

DEPTH OF VIEWERS: 3.75"

VIEWING AREA	EXTERIOR DIM		WALL OPENING	APPROX. SHIP WT	2X SERIES TWO LAMP		4X SERIES FOUR LAMP		
	WIDTH	HGT			STANDARD SWITCHES	AUTO SWITCHES	STANDARD SWITCHES	AUTO SWITCHES	
Single Bank	14"x17"	14.75"	21.5"	30 lbs	2X0061	2X0021	4X0061	4X0021	
Two Bank	28"x17"	28.75"	21.5"	60 lbs	2X0062	2X0022	4X0062	4X0022	
Three Bank	42"x17"	42.75"	21.5"	90 lbs	2X0063	2X0023	4X0063	4X0023	
Four Bank	56"x17"	56.75"	21.5"	120 lbs	2X0064	2X0024	4X0064	4X0024	
Five Bank	70"x17"	70.75"	21.5"	150 lbs	2X0065	2X0025	4X0065	4X0025	
Six Bank	84"x17"	84.75"	21.5"	160 lbs	2X0066	2X0026	4X0066	4X0026	
<b>TWO TIER</b>									
1 over 1	2 x 14"x17"	14.75"	43"	15"X43.25"	60 lbs	2X0071	2X0031	4X0071	4X0031
2 over 2	2 x 28"x17"	28.75"	43"	29"X43.25"	120 lbs	2X0072	2X0032	4X0072	4X0032
3 over 3	2 x 42"x17"	42.75"	43"	43"X43.25"	180 lbs	2X0073	2X0033	4X0073	4X0033
4 over 4	2 x 56"x17"	56.75"	43"	57"X43.25"	240 lbs	2X0074	2X0034	4X0074	4X0034
5 over 5	2 x 70"x17"	70.75"	43"	71"X43.25"	300 lbs	2X0075	2X0035	4X0075	4X0035
6 over 6	2 x 84"x17"	84.75"	43"	85"X43.25"	360 lbs	2X0076	2X0036	4X0076	4X0036

ALL MEASUREMENTS ARE ± 1/16"



**Finish:** White Baked Enamel, Stainless Steel Trim (recessing flanges are white baked enamel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 1.6 Amps AC per viewing area. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** Modular Mobile system (pg. B-23), mobile stand, console arms, angulated viewing system (pg. B-25), hinge kits and corner modules (pg. B-24), hospital grade plugs (pg. B-30).



# DELUXE 470 SERIES



ILLUMINATORS

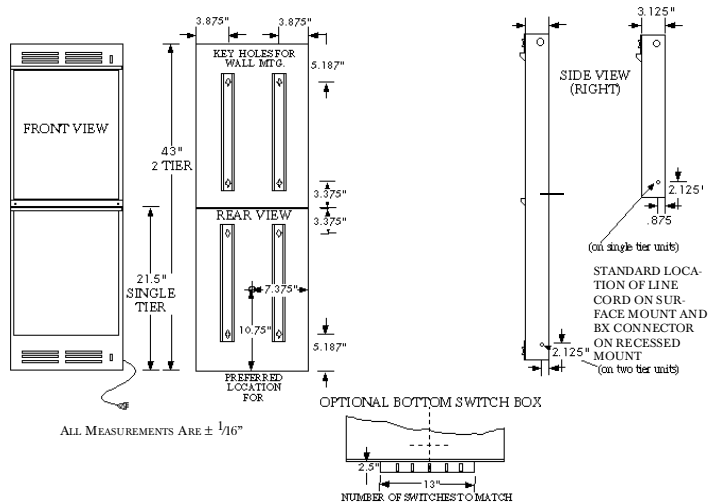


An exceptionally bright illuminator ideal for installations that require minimum projection the Deluxe 470 is only 3.125" deep. Each 14"x17" viewing area is illuminated by four F15T8/D 15 watt daylight fluorescent bulbs and is controlled by its own individual on/off rocker switch. All units are supplied with internal dividers to prevent light spillover. Panoramic reflectors (without dividers) can be provided upon request (at time of order). A gravity film grip, extending the full width of the illuminator, holds the top of the film firmly in place, while a film retainer ledge supports film at the bottom of the viewing area. Each tier has a one piece plexiglass viewing panel.

The 470 Deluxe series is constructed of 18 gauge cold rolled steel. Multiple bank units incorporate unibody construction, not a series of single units bolted together. Each tier has steel channel reinforcement of the rear section. Recessed models come complete with recessing flanges, finished in white baked enamel, permanently welded to the case. Holes are provided in the flange for ease of mounting.

### SURFACE MOUNTED MODELS

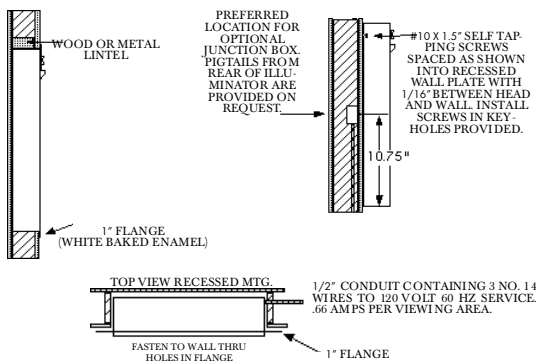
DEPTH OF VIEWERS: 3.125"		EXTERIOR DIM		CATALOG NO.	
VIEWING AREA	WIDTH	HGT	APPROX. SHIP WT	STANDARD SWITCHES	AUTO SWITCHES
Single Bank	14"x17"	14.75"	21.5"	25 lbs	106010 106110
Two Bank	28"x17"	28.75"	21.5"	50 lbs	106020 106120
Three Bank	42"x17"	42.75"	21.5"	75 lbs	106030 106130
Four Bank	56"x17"	56.75"	21.5"	100 lbs	106040 106140
Five Bank	70"x17"	70.75"	21.5"	125 lbs	1060150 106150
Six Bank	84"x17"	84.75"	21.5"	150 lbs	106060 106160
<b>TWO TIER</b>					
1 over 1	2x 14"x17"	14.75"	43.125"	50 lbs	107010 107110
2 over 2	2x 28"x17"	28.75"	43.125"	100 lbs	107020 107120
3 over 3	2x 42"x17"	42.75"	43.125"	150 lbs	107030 107130
4 over 4	2x 56"x17"	56.75"	43.125"	200 lbs	107040 107140
5 over 5	2x 70"x17"	70.75"	43.125"	250 lbs	107050 107150
6 over 6	2x 84"x17"	84.75"	43.125"	300 lbs	107060 107160



ALL MEASUREMENTS ARE ± 1/16"

### RECESSED MODELS

VIEWING AREA		EXTERIOR DIM		WALL OPENING		APPROX. SHIP WT		CATALOG NO.	
Single Bank	Two Bank	Three Bank	Four Bank	Five Bank	Six Bank	STANDARD SWITCHES	AUTO SWITCHES		
14"x17"	28"x17"	42"x17"	56"x17"	70"x17"	84"x17"	25 lbs	106210	106310	
28"x17"	42"x17"	56"x17"	70"x17"	84"x17"	14"x17"	50 lbs	106220	106320	
42"x17"	56"x17"	70"x17"	84"x17"	14"x17"	28"x17"	75 lbs	106230	106330	
56"x17"	70"x17"	84"x17"	14"x17"	28"x17"	42"x17"	100 lbs	106240	106340	
70"x17"	84"x17"	14"x17"	28"x17"	42"x17"	56"x17"	125 lbs	106250	106350	
84"x17"	14"x17"	28"x17"	42"x17"	56"x17"	70"x17"	150 lbs	106260	106360	
<b>TWO TIER</b>									
1 over 1	2 over 2	3 over 3	4 over 4	5 over 5	6 over 6	50 lbs	107210	107310	
2 over 2	3 over 3	4 over 4	5 over 5	6 over 6	14"x17"	100 lbs	107220	107320	
3 over 3	4 over 4	5 over 5	6 over 6	14"x17"	28"x17"	150 lbs	107230	107330	
4 over 4	5 over 5	6 over 6	14"x17"	28"x17"	42"x17"	200 lbs	107240	107340	
5 over 5	6 over 6	14"x17"	28"x17"	42"x17"	56"x17"	250 lbs	107250	107350	
6 over 6	14"x17"	28"x17"	42"x17"	56"x17"	70"x17"	300 lbs	107260	107360	



**Finish:** Interiors, backs and sides are finished in white baked enamel. Fronts are polished stainless steel.

**Electrical:** Viewers operate on 120 volt, 60 Hz, 1.06 Amps AC per viewing area. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** hospital grade plugs, switch boxes, 68H custom formica shelf & 68HB wall mounting bracket (pg. B-30) Modular Mobile system (pg. B-23), mobile stand, console arms, angulated viewing system (pg. B-25), hinge kits and corner modules (pg. B-24).

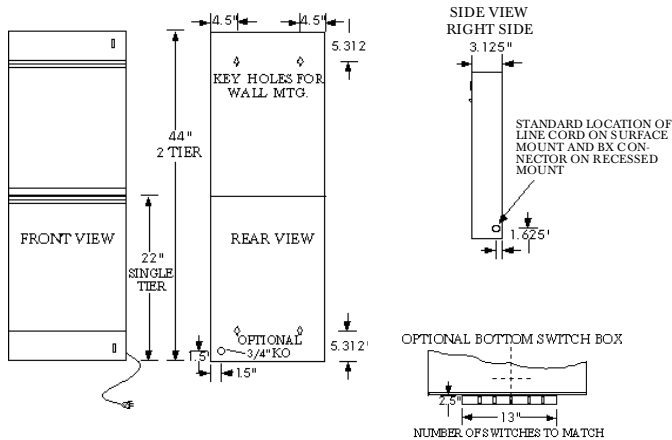
# STREAMLINER III SURFACE OR RECESSED

This **sleek, slim technically advanced** illuminator series fits into any decor. Each 14"x17" viewing area is illuminated by three F15T8/D 15 watt daylight fluorescent bulbs. A unique *metalized mylar reflector* produces bright uniform light distribution. All units in the series are supplied with *hi-power factor low leakage ballasts* which provide instant-on operation. Illuminators come with internal dividers between each 14"x17" viewing section to prevent light spillover. Panoramic (uninterrupted) reflectors are available upon request at time of order.

The Streamliner series is constructed of 18 gauge cold rolled steel. *Multiple bank units are constructed of a single housing*, not a series of single units bolted together. A *gravity film grip*, extending the full width of the illuminator, holds the top of the film firmly in place, while a film retainer ledge supports film at the bottom of the viewing area. Recessed models come complete with recessing flanges permanently mounted to the case. Holes are provided in the flange for ease of mounting.



Surface Mount: 143001



### SURFACE MOUNTED MODELS

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES
Single Bank	14"	22"	22 lbs	143001	143021
Two Bank	28"	22"	39 lbs	143002	143022
Three Bank	42"	22"	55 lbs	143003	143023
Four Bank	56"	22"	70 lbs	143004	143024
Five Bank	70"	22"	135 lbs	143005	143025
Six Bank	84"	22"	145 lbs	143006	143026
Eight Bank	112"	22"	178 lbs	143008	143028
<b>TWO TIER</b>					
1 over 1 2x 14"x17"	14"	44"	43 lbs	143011	143031
2 over 2 2x 28"x17"	28"	44"	112 lbs	143012	143032
3 over 3 2x 42"x17"	42"	44"	143 lbs	143013	143033
4 over 4 2x 56"x17"	56"	44"	187 lbs	143014	143034
5 over 5 2x 70"x17"	70"	44"	234 lbs	143015	143035
6 over 6 2x 84"x17"	84"	44"	243 lbs	143016	143036
8 over 8 2x 112"x17"	112"	44"	349 lbs	143018	143038

### RECESSED MODELS

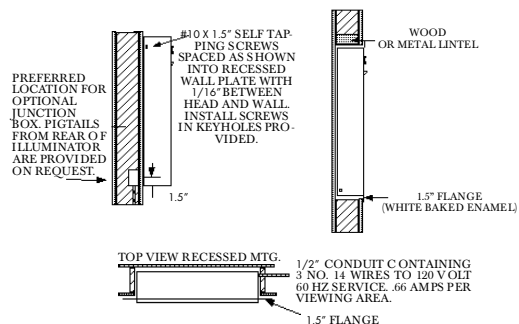
VIEWING AREA	EXTERIOR DIM		WALL OPENING		APPROX. SHIP WT	STANDARD SWITCHES	AUTO SWITCHES
	WIDTH	HGT	WIDTH	HGT			
Single Bank	14"	22"	14.5"	22.5"	28 lbs	143041	143061
Two Bank	28"	22"	28.5"	22.5"	67 lbs	143042	143062
Three Bank	42"	22"	42.5"	22.5"	88 lbs	143043	143063
Four Bank	56"	22"	56.5"	22.5"	113 lbs	143044	143064
Five Bank	70"	22"	70.5"	22.5"	140 lbs	143045	143065
Six Bank	84"	22"	84.5"	22.5"	150 lbs	143046	143066
Eight Bank	112"	22"	112.5"	22.5"	188 lbs	143048	143068
<b>TWO TIER</b>							
1 over 1 2 x 14"x17"	14"	44"	14.5"	44.5"	65 lbs	143051	143071
2 over 2 2 x 28"x17"	28"	44"	28.5"	44.5"	116 lbs	143052	143072
3 over 3 2 x 42"x17"	42"	44"	42.5"	44.5"	155 lbs	143053	143073
4 over 4 2 x 56"x17"	56"	44"	56.5"	44.5"	191 lbs	143054	143074
5 over 5 2 x 70"x17"	70"	44"	70.5"	44.5"	237 lbs	143055	143075
6 over 6 2 x 84"x17"	84"	44"	84.5"	44.5"	246 lbs	143056	143076
8 over 8 2 x 112"x17"	112"	44"	112.5"	44.5"	369 lbs	143058	143078

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** White baked enamel (on cold rolled steel).

**Electrical:** Viewers operate on 120 volt, 60 Hz, .61 Amps AC per viewing area. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** hospital grade plugs, switch boxes, 68H custom formica shelf & 68HB wall mounting bracket (pg. B-30) Modular Mobile system (pg. B-23), mobile stand, console arms, angulated viewing system (pg. B-25), hinge kits and corner modules (pg. B-24).



# CIRCULITE SERIES



## ILLUMINATORS

Designed for optimum viewing at an economy price, the Circulite illuminator is housed in an attractive, stylish case constructed of 18 gauge cold rolled steel. Multiple bank units are constructed of a single housing, not a series of single units bolted together. A gravity film grip, extending the full width of the illuminator, holds the top of the film firmly in place, while a film retainer ledge supports film at the bottom of the viewing area. Each viewing area is controlled by a rocker switch which is mounted in the stainless steel trim at the right front of the illuminator.

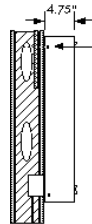
Each 14"x17" viewing area is illuminated by one 32 watt daylight circline fluorescent lamp. Dividers are installed to prevent light spillover. When specified (at time of order) illuminators can be supplied without dividers for panoramic illumination.

Recessed models are supplied with stainless steel recessing flanges and BX connector. The recessing flanges are provided loose (not attached to the illuminator) to allow for partial recessing in thin walls.

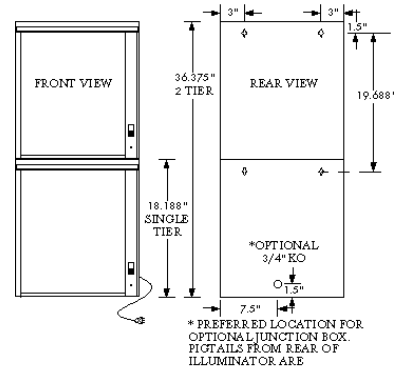


### SURFACE MOUNTED MODELS

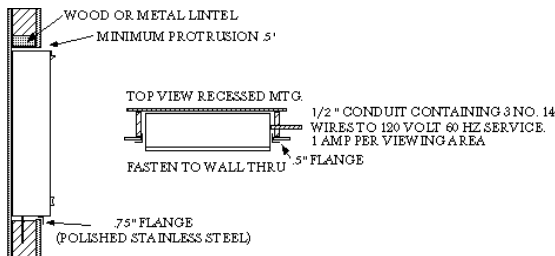
VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES
Single Bank 14"x17"	16.812"	18.187"	23 lbs	140001	140021
Two Bank 28"x17"	30.812"	18.187"	35 lbs	140002	140022
Three Bank 42"x17"	44.812"	18.187"	43 lbs	140003	140023
Four Bank 56"x17"	58.812"	18.187"	66 lbs	140004	140024
Five Bank 70"x17"	72.812"	18.187"	110 lbs	140005	140025
Six Bank 84"x17"	86.812"	18.187"	129 lbs	140006	140026
Eight Bank 112"x17"	114.812"	18.187"	165 lbs	140008	140028
<b>TWO TIER</b>					
1 over 1 2x 14"x17"	16.812"	36.375"	45 lbs	140011	140031
2 over 2 2x 28"x17"	30.812"	36.375"	94 lbs	140012	140032
3 over 3 2x 42"x17"	44.812"	36.375"	132 lbs	140013	140033
4 over 4 2x 56"x17"	58.812"	36.375"	164 lbs	140014	140034
5 over 5 2x 70"x17"	72.812"	36.375"	202 lbs	140015	140035
6 over 6 2x 84"x17"	86.812"	36.375"	233 lbs	140016	140036
8 over 8 2x 112"x17"	114.812"	36.375"	291 lbs	140018	140038



#10 x 1.5" SELF TAPPING SCREWS SPACED AS SHOWN INTO RECESSED WALL PLATE WITH 1/16" BETWEEN HEAD AND WALL. INSTALL SCREWS IN KEYHOLES IN KEYHOLES PROVIDED.



\* PREFERRED LOCATION FOR OPTIONAL JUNCTION BOX. FIG TAILS FROM REAR OF ILLUMINATOR ARE



ALL MEASUREMENTS ARE ± 1/64"

### RECESSED MODELS

VIEWING AREA	EXTERIOR DIM		WALL OPENING		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	WIDTH	HGT		STANDARD SWITCHES	AUTO SWITCHES
Single Bank 14"x17"	16.812"	18.187"	17"	18.5"	29 lbs	140041	140061
Two Bank 28"x17"	30.812"	18.187"	31"	18.5"	37 lbs	140042	140062
Three Bank 42"x17"	44.812"	18.187"	45"	18.5"	52 lbs	140043	140063
Four Bank 56"x17"	58.812"	18.187"	59"	18.5"	68 lbs	140044	140064
Five Bank 70"x17"	72.812"	18.187"	73"	18.5"	113 lbs	140045	140065
Six Bank 84"x17"	86.812"	18.187"	87"	18.5"	144 lbs	140046	140066
Eight Bank 112"x17"	114.812"	18.187"	115"	18.5"	170 lbs	140048	140068
<b>TWO TIER</b>							
1 over 1 2x 14"x17"	16.812"	36.375"	17"	36.687"	47 lbs	140051	140071
2 over 2 2x 28"x17"	30.812"	36.375"	31"	36.687"	113 lbs	140052	140072
3 over 3 2x 42"x17"	44.812"	36.375"	45"	36.687"	135 lbs	140053	140073
4 over 4 2x 56"x17"	58.812"	36.375"	59"	36.687"	168 lbs	140054	140074
5 over 5 2x 70"x17"	72.812"	36.375"	73"	36.687"	205 lbs	140055	140075
6 over 6 2x 84"x17"	86.812"	36.375"	87"	36.687"	236 lbs	140056	140076
8 over 8 2x 112"x17"	114.812"	36.375"	115"	36.687"	306 lbs	140058	140078

**Finish:** White Baked Enamel, Stainless Steel Trim (recessing flanges are polished stainless steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, .7 Amps AC per viewing area. Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** Modular Mobile system (pg B-23), mobile stand, console arms, angulated viewing system (pg B-25), corner modules (pg B-24), switch boxes, hospital grade plugs (pg B-30).



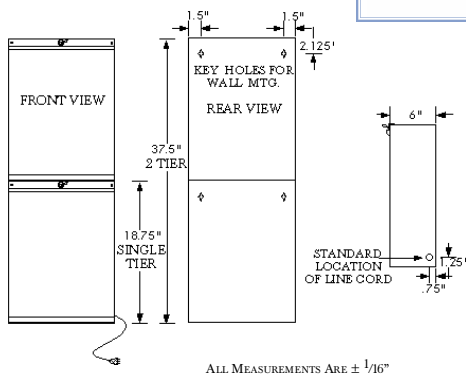
Ideal for *desk top* or *wall mounting*, the 460 Thin Line Series (where thin line refers to the width of the side walls of this illuminator) is equipped with rubber feet properly balanced to sit safely on a desk. The key holed back makes it extremely simple to mount on a wall. Preheat ballasts, one piece plexiglass fronts and stainless steel *gravity grips* are supplied as standard with this series. A bottom ledge film support coupled with the stainless steel gravity grip guarantees maximum freedom for viewing small or large films. Each section is individually controlled by an on/off switch mounted on the top front center of each section. Each 14"x17" viewing section is illuminated by two F15T8/D daylight fluorescent bulbs.

*Thin side walls* allow banking with minimum interruption between viewing sections.

### SURFACE AND DESK MOUNT

DEPTH OF VIEWERS: 6"

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT		
Single Bank 14"x17"	14"	18.75"	21 lbs	460A
Two Bank 28"x17"	28"	18.75"	42 lbs	460D2
Three Bank 42"x17"	42"	18.75"	60 lbs	460D3
Four Bank 56"x17"	56"	18.75"	80 lbs	460D4
Five Bank 70"x17"	70"	18.75"	125 lbs	460D5
Six Bank 84"x17"	84"	18.75"	140 lbs	460D6
<b>TWO TIER</b>				
1 over 1 2x 14"x17"	14"	37.5"	62 lbs	460E1
2 over 2 2x 28"x17"	28"	37.5"	104 lbs	460E2
3 over 3 2x 42"x17"	42"	37.5"	140 lbs	460E3
4 over 4 2x 56"x17"	56"	37.5"	180 lbs	460E4
5 over 5 2x 70"x17"	70"	37.5"	230 lbs	460E5
6 over 6 2x 84"x17"	84"	37.5"	260 lbs	460E6



**Finish:** Light Grey Baked Enamel  
**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord (see diagram for wiring locations). For special voltages consult factory.

\* **Optional Items:** Trigger start ballast, automatic switches, dual intensity illumination (pg B-17), switch boxes, hospital grade plugs (pg B-30), handles for carrying (for one or two bank illuminator) consult factory.

## WET FILM OR COUNTER TOP RECESSED VIEWER

Specially designed for viewing *wet film* or *flat mounting in a counter top*. The body of the illuminator is constructed of either *stainless steel* or *painted steel*. When wall mounting for wet film use, the *plexiglass front extends .5" beyond the sides and bottom* of the illuminator. *Two hanger hooks* are supplied for wet film viewing. For flat mounting (recessing into a counter top) the oversized plexiglass is recessed flush with the counter top to allow for ease of marking film and viewing film without loss of valuable counter space. Two F15T8/D daylight fluorescent bulbs and built in reflectors produce bright uniform illumination.

DEPTH OF VIEWERS: 5.5"

VIEWING AREA	EXTERIOR DIM		PLEXIDIM.		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	WIDTH	HGT		ENAMEL	STAINLESS STEEL
Single Bank 14"x17"	15.5"	18.5"	16.5"	19"	19 lbs	202A	202S

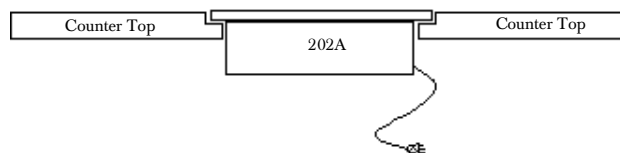
ALL MEASUREMENTS ARE ± 1/16"

202A shown with optional Drip Tray



**Finish:** Light Grey baked enamel or polished stainless steel  
**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord. For special voltages consult factory.

\* **Optional Item:** Drip Tray (cat. # 404) approx. ship. weight 2 Lbs.



# VUELITE SERIES (ALL ALUMINUM)

14" x 17" OR 14" x 36"

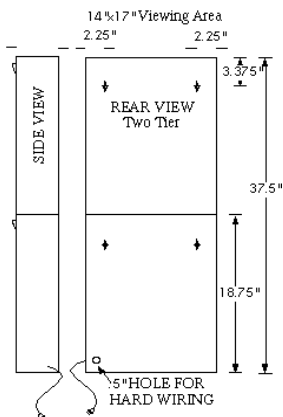


Each tier of the **Vuelite** is constructed of an overall aluminum housing with internal dividers between each viewing section to prevent light spillover. All models are supplied with two F15T8/D daylight fluorescent bulbs per viewing section, giving **uniform illumination**, an on/off rocker switch, a one piece plexiglass viewing panel and a one piece *full width gravity grip film holder*. **Surface models** come with rubber feet properly balanced to sit safely on a desk.

**Recessed models** are supplied with stainless steel recessing flanges and BX connector. The recessing flanges are not welded to the illuminator to allow for partial recessing in thin walls.

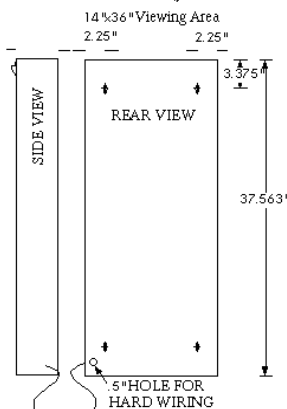
### 14"x17" SURFACE MOUNTED MODELS

VIEWING AREA		EXTERIOR DIM		APPROX. STANDARD		AUTO	
DEPTH OF VIEWERS: 5"		WIDTH	HGT	SHIP WT	SWITCH	SWITCH	SWITCH
Single Bank	14"x17"	15.563"	18.75"	20 lbs	145001	145021	
Two Bank	28"x17"	29.563"	18.75"	40 lbs	145002	145022	
Three Bank	42"x17"	43.563"	18.75"	60 lbs	145003	145023	
Four Bank	56"x17"	57.563"	18.75"	80 lbs	145004	145024	
Five Bank	70"x17"	71.563"	18.75"	100 lbs	145005	145025	
Six Bank	84"x17"	85.563"	18.75"	120 lbs	145006	145026	
Eight Bank	112"x17"	113.563"	18.75"	160 lbs	145008	145028	
<b>TWO TIER</b>							
1 over 1	2x 14"x17"	15.563"	37.5"	50 lbs	145011	145031	
2 over 2	2x 28"x17"	29.563"	37.5"	90 lbs	145012	145032	
3 over 3	2x 42"x17"	43.563"	37.5"	140 lbs	145013	145033	
4 over 4	2x 56"x17"	57.563"	37.5"	180 lbs	145014	145034	
5 over 5	2x 70"x17"	71.563"	37.5"	230 lbs	145015	145035	
6 over 6	2x 84"x17"	85.563"	37.5"	280 lbs	145016	145036	
8 over 8	2x 112"x17"	113.563"	37.5"	380 lbs	145018	145038	



### 14"x17" RECESSED MODELS

VIEWING AREA		EXTERIOR DIM		WALL OPENING		APPROX. STANDARD		AUTO	
DEPTH OF VIEWERS: 5"		WIDTH	HGT	WIDTH	HGT	SHIP WT	SWITCH	SWITCH	SWITCH
Single Bank	14"x17"	15.563"	18.75"	15.875"	19"	20 lbs	145041	145061	
Two Bank	28"x17"	29.563"	18.75"	29.875"	19"	40 lbs	145042	145062	
Three Bank	42"x17"	43.563"	18.75"	43.875"	19"	60 lbs	145043	145063	
Four Bank	56"x17"	57.563"	18.75"	57.875"	19"	80 lbs	145044	145064	
Five Bank	70"x17"	71.563"	18.75"	71.875"	19"	100 lbs	145045	145065	
Six Bank	84"x17"	85.563"	18.75"	85.875"	19"	120 lbs	145046	145066	
Eight Bank	112"x17"	113.563"	18.75"	113.875"	19"	160 lbs	145048	145068	
<b>TWO TIER</b>									
1 over 1	2x 14"x17"	15.563"	37.75"	15.875"	37.75"	50 lbs	145051	145071	
2 over 2	2x 28"x17"	29.563"	37.75"	29.875"	37.75"	90 lbs	145052	145072	
3 over 3	2x 42"x17"	43.563"	37.75"	43.875"	37.75"	140 lbs	145053	145073	
4 over 4	2x 56"x17"	57.563"	37.75"	57.875"	37.75"	180 lbs	145054	145074	
5 over 5	2x 70"x17"	71.563"	37.75"	71.875"	37.75"	230 lbs	145055	145075	
6 over 6	2x 84"x17"	85.563"	37.75"	85.875"	37.75"	280 lbs	145056	145076	
8 over 8	2x 112"x17"	113.563"	37.75"	113.875"	37.75"	380 lbs	145058	145078	



### 14"x36" SURFACE MOUNTED MODELS

VIEWING AREA		EXTERIOR DIM		APPROX. STANDARD		AUTO	
DEPTH OF VIEWERS: 5"		WIDTH	HGT	SHIP WT	SWITCH	SWITCH	SWITCH
Single Bank	14"x36"	15.563"	37.563"	40 lbs	145101	145121	
Two Bank	28"x36"	29.563"	37.563"	75 lbs	145102	145122	

### 14"x36" RECESSED MODELS

VIEWING AREA		EXTERIOR DIM		WALL OPENING		APPROX. STANDARD		AUTO	
DEPTH OF VIEWERS: 5"		WIDTH	HGT	WIDTH	HGT	SHIP WT	SWITCH	SWITCH	SWITCH
Single Bank	14"x36"	15.563"	37.563"	15.813"	37.813"	40 lbs	145111	145161	
Two Bank	28"x36"	29.563"	37.563"	29.813"	37.813"	75 lbs	145112	145162	

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** Anodized brushed aluminum

**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

\* **Optional Items:** automatic switches (pg. B-17) switch boxes, hospital grade plugs (pg B-30).





## 188 - BRIGHT SPOT SERIES

The standard for radiology departments nationwide! These superior high intensity illuminators with *variable intensity illumination, rheostat foot switch controls* and *swivel base*. A best seller! A unique, low cost, bright spot illuminator series for viewing dense film.

**188:** The Bright Spot lamp housing adjusts for easy viewing, the base has key holes for wall mounting and plastic non-marring feet to stand on a desk.

**188SM:** A 188 with a special bracket that permits attachment to either side of a non-recessed illuminator and swivels in any direction.

Both the 188 and the 188SM come with a rheostat foot switch to vary the brightness of the special high intensity bulb which is surrounded by a polished aluminum reflector.

**EXTERIOR DIMENSIONS:** 6" Wide 7.5" High 6.75" Deep  
approx. shipping weight 9 lbs.

**Finish:** Light gray baked enamel (on cold rolled steel).

**Electrical:** Viewers operate on 120 volt, 60 Hz, .7 Amps AC. Supplied with a 6' three conductor line cord. For special voltages consult factory.



188SM- Side Mount Bright Spot mounted on a 222 - 188- Bright Spot on desk

## 183 MINI BRIGHT SPOT

A focused 75 watt Halogen lamp, mounted on a *unique sliding stage*, enables *adjustment of the spot size* of this **extremely bright illuminator**. The Mini Bright Spot comes with with a variable brightness control and an on/off foot switch. There is a *three inch diameter viewing area*. A handle is provided for ease of mobility.

**EXTERIOR DIMENSIONS:** 5.5" Wide 10" High 8.5" Deep  
approx. shipping weight 18 lbs.

**Finish:** Light Grey baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, .1 Amp AC. Supplied with a 6' three conductor line cord. For special voltages consult factory.



## COOLBRITE SERIES

The CoolBrite is a unique high intensity illuminator designed for *viewing dense film areas*. Using a specially designed lamp and electronics, the CoolBrite produces very high luminance, 18,000 cd/m<sup>2</sup> candela per sq. meter) without the undesirable heat that is characteristic of incandescent "hot lights". Measuring 8" wide , 13" long and 2.75" high these illuminators are extremely portable and can be placed on a desktop, mounted on a wall, or attached to an articulated instrument- mounting arm for optimum convenience. Both foot switch and film activated switches are standard. There is a built in automatic shut off to protect viewer and film.



### CB-4

#### HIGH INTENSITY WITH ADJUSTABLE IRIS

Luminance: Approx. 18,000 cd/m<sup>2</sup>

Aperture: 0.7"-4.4" Diameter

Power: 117 VAC ± 10%, 50/60 Hz, .75 amp

Weight: 5.2 Lbs.



**EXTERIOR DIMENSIONS:**  
8" Wide 13" Long 2.75" High

### CB-3

#### HIGH INTENSITY

Luminance: Approx. 18,000 cd/m<sup>2</sup>

Aperture: 4.4" Diameter

Power: 117 VAC ± 10%, 50/60 Hz, .75 amp

Weight: 4.88 Lbs.



# 200 SERIES SURFACE & RECESSED




Two Bank surface Mounted Model (222ST)

*This is the illuminator of choice for the finest hospitals in the U.S. Its 5<sup>3/8</sup>" depth allows for maximum light diffusion resulting in excellent uniformity.* Each 14"x17" viewing area is illuminated by two F15T8/D 15 watt daylight fluorescent bulbs. On/Off rocker switches are mounted on the right front side of the illuminator. Internal sectional dividers (which produce a sharp demarcation between each 14"x17" viewing area and prevent light spillover) are standard. Panoramic illumination - no internal dividers - is available upon request at time of order. A gravity film grip, extending the full width of the illuminator, holds the top of the film firmly in place, while a film retainer ledge supports film at the bottom of the viewing area.

Both *Surface and Recessed* Mounted Models are available in one or two tier configurations. Every illuminator in this series is manufactured of heavy gauge

steel which is formed and welded into a single integral housing giving it strength and durability and eliminating light leakage around the housing.

Housings for surface mounted models are fabricated of cold rolled steel or stainless steel. Recessed model housings are cold rolled steel with either a stainless steel or cold rolled steel front frame mounted to the illuminator housing. They are self trimming and do not require additional recessing trims or rough-in boxes.

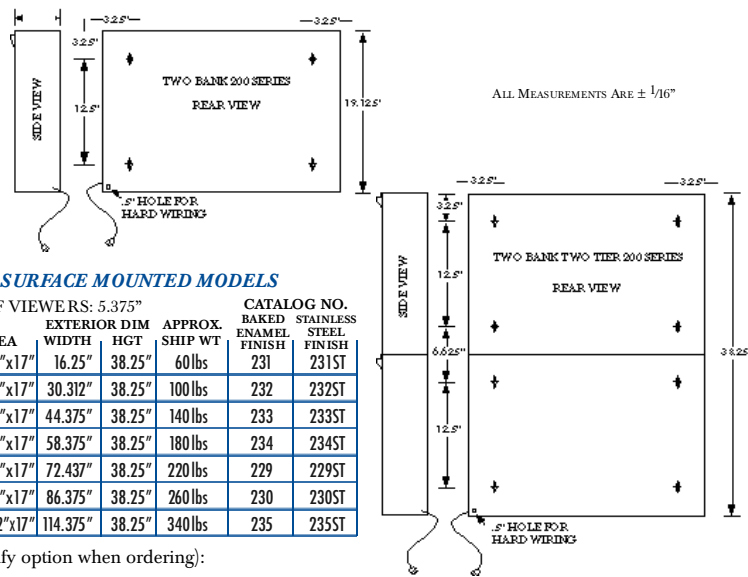
**Finish:** Polished stainless steel or light gray baked enamel (on cold rolled steel).  (in standard configurations)

**\* Optional Items:** hospital grade plugs, film clips, switch boxes, 68H custom formica shelf & 68HB wall mounting bracket -For ordering information see page B-30 Modular mobile system (pg. B-23), angulated viewing system (pg B-25), mobile stand (pg B-25), hinge kits and corner modules (B-24). See below for more options!

## ONE TIER SURFACE MOUNTED MODELS

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		BAKED ENAMEL FINISH	STAINLESS STEEL FINISH
Single Bank 14"x17"	16.25"	19.125"	23 lbs	208	208ST
Two Bank 28"x17"	30.312"	19.125"	43 lbs	222	222ST
Three Bank 42"x17"	44.375"	19.125"	60 lbs	223	223ST
Four Bank 56"x17"	58.375"	19.125"	80 lbs	224	224ST
Five Bank 70"x17"	72.437"	19.125"	120 lbs	225	225ST
Six Bank 84"x17"	86.375"	19.125"	140 lbs	226	226ST
Eight Bank 112"x17"	114.375"	19.125"	185 lbs	228	228ST

## 200 SERIES SURFACE MODELS



## TWO TIER SURFACE MOUNTED MODELS

**Electrical:** Supplied with a 6' three conductor cord. 120 volts, 60HZ AC, .75 Amps per section. Consult factory for other voltages.

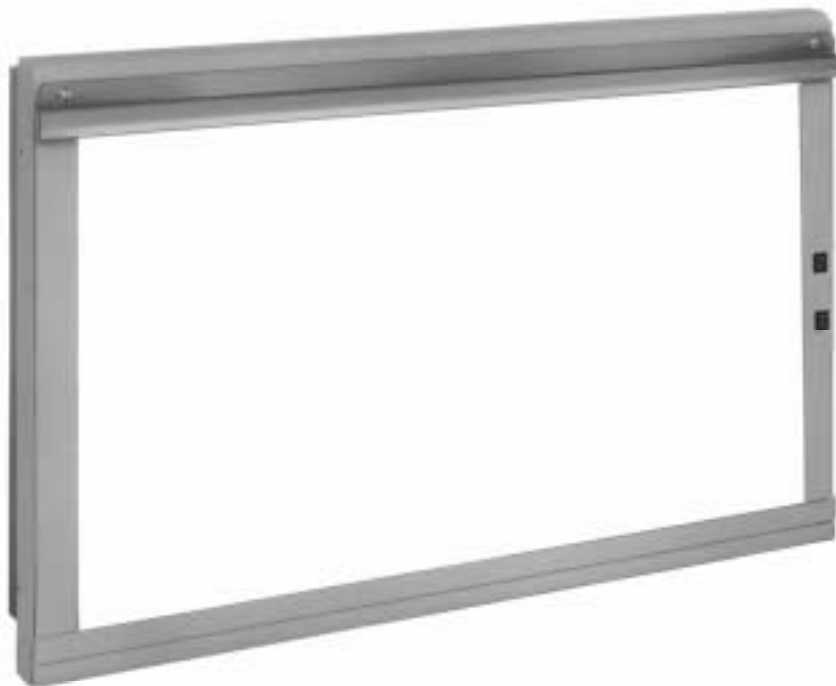
VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		BAKED ENAMEL FINISH	STAINLESS STEEL FINISH
1 over 1 2x 14"x17"	16.25"	38.25"	60 lbs	231	231ST
2 over 2 2x 28"x17"	30.312"	38.25"	100 lbs	232	232ST
3 over 3 2x 42"x17"	44.375"	38.25"	140 lbs	233	233ST
4 over 4 2x 56"x17"	58.375"	38.25"	180 lbs	234	234ST
5 over 5 2x 70"x17"	72.437"	38.25"	220 lbs	229	229ST
6 over 6 2x 84"x17"	86.375"	38.25"	260 lbs	230	230ST
8 over 8 2x 112"x17"	114.375"	38.25"	340 lbs	235	235ST

The following options **MUST BE FACTORY INSTALLED** (specify option when ordering):

**AUTOMATIC SWITCHES (FILM ACTIVATED AUTO SWITCH)** Automatic switches turn on or off as film is inserted or withdrawn from the film grips. Included with this option are trigger start ballasts for flicker free illumination and a special three way switch for choice of automatic or manual operating modes. **CATALOG # 199A** (order one per viewing section)

**TRIGGER START BALLASTS** Special ballast provides flicker free illumination. **CATALOG # 199** (order one per viewing section)

**DOUBLE INTENSITY ILLUMINATION** Two additional bulbs/section increase light output. **CATALOG # 197** (order one per viewing section)



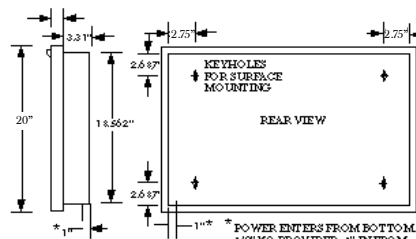
Two Bank Recessed Mounted Model (242ST)

### ONE BANK RECESSED MODELS

SURFACE DEPTH OF VIEWERS: 1.5"

VIEWING AREA	FRONT		WALL OPENING		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	WIDTH	HGT		ENAMEL FINISH	STAINLESS STEEL FINISH
Single Bank 14"x17"	17.0"	20"	15.75"	18.812"	21 lbs	240GT	240ST
Two Bank 28"x17"	31.25"	20"	29.812"	18.812"	42 lbs	242GT	242ST
Three Bank 42"x17"	45.25"	20"	44.0"	18.812"	63 lbs	243GT	243ST
Four Bank 56"x17"	59.25"	20"	58.062"	18.812"	84 lbs	244GT	244ST
Five Bank 70"x17"	73.25"	20"	72.125"	18.812"	105 lbs	245GT	245ST
Six Bank 84"x17"	87.375"	20"	85.563"	18.812"	126 lbs	241GT	241ST

RECESSED DEPTH OF VIEWERS: 3.312"



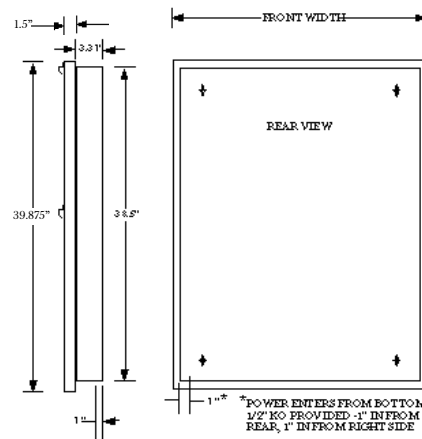
### TWO TIER RECESSED MODELS

SURFACE DEPTH OF VIEWERS: 1.5"


VIEWING AREA	FRONT		WALL OPENING		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	WIDTH	HGT		ENAMEL FINISH	STAINLESS STEEL FINISH
1 over 1 2x 14"x17"	17.0"	39.875"	15.75"	38.75"	43 lbs	2402GT	2402ST
2 over 2 2x 28"x17"	31.25"	39.875"	29.812"	38.75"	84 lbs	2422GT	2422ST
3 over 3 2x 42"x17"	45.25"	39.875"	44.0"	38.75"	127 lbs	246GT	246ST
4 over 4 2x 56"x17"	59.25"	39.875"	58.062"	38.75"	169 lbs	248GT	248ST
5 over 5 2x 70"x17"	73.25"	39.875"	72.125"	38.75"	211 lbs	247GT	247ST
6 over 6 2x 84"x17"	87.375"	39.875"	85.563"	38.75"	253 lbs	249GT	249ST

RECESSED DEPTH OF VIEWERS: 3.312"

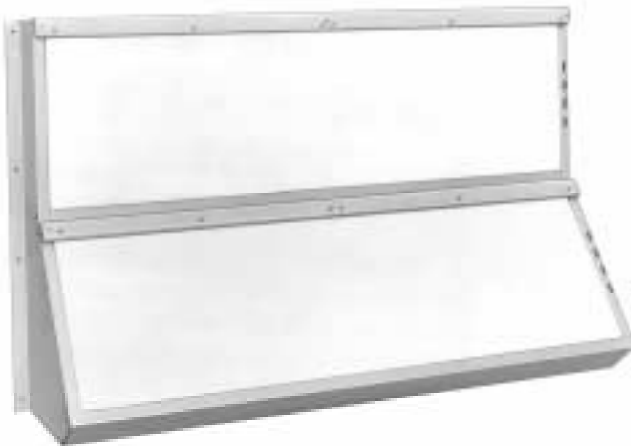
ALL MEASUREMENTS ARE ± 1/16"



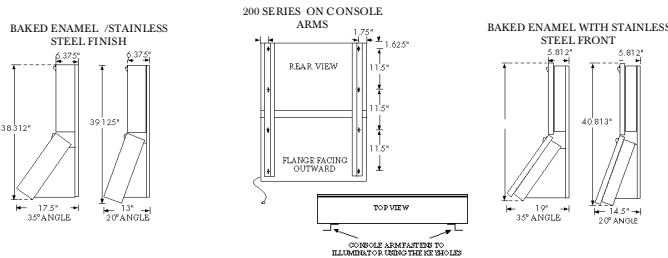
**Electrical:** Supplied with a 6' three conductor cord. **When BX connector is required add X after catalog number** 120 volts, 60HZ AC, .75 Amps per section. Consult factory for other voltages.

 (in standard configurations)

# 200 SERIES CONSOLE STYLE



This special mounting of the 200 series was designed for better viewing, comparison and marking of films. On two tier units the lower tier is tilted at either 20° or 35° from the vertical (the upper tier remains vertical). This arrangement facilitates handling of the films and is ideal for comfortable seated viewing. The console may be placed on a desk or table or it can be fastened to a wall quickly with keyholes provided on rear of viewer. Specify desired angle when placing order. Units chosen in the baked enamel finish or all stainless steel finish use the Surface Mounted Models of the 200 Series. The 239 series with baked enamel body and stainless steel front utilizes the recessed models of the 200 Series.



CONSOLE STYLE	VIEWING AREA	EXTERIOR WIDTH	APPROX. SHIP WT	CATALOG NO.		STAINLESS STEEL FRONT	
				BAKED ENAMEL FINISH	STAINLESS STEEL FINISH	CATALOG NO.	EXTERIOR WIDTH
Two Bank	28"x17"	30.312"	60 lbs	237A	237SA	239A	31.25
Three Bank	42"x17"	44.375"	80 lbs	237B	237SB	239B	45.25
Four Bank	56"x17"	58.375"	100 lbs	237	237S	239C	59.25
Five Bank	70"x17"	72.437"	120 lbs	237C	237SC	239D	73.25
Six Bank	84"x17"	86.375"	140 lbs	237D	237SD	239E	87.375
Eight Bank	112"x17"	114.375"	180 lbs	237E	237SE		
<b>TWO TIER</b>							
2 over 2	2x 28"x17"	30.312"	100 lbs	238A	238SA	239G	31.25
3 over 3	2x 42"x17"	44.375"	140 lbs	238B	238SB	239H	45.25
4 over 4	2x 56"x17"	58.375"	180 lbs	238	238S	239	59.25
5 over 5	2x 70"x17"	72.437"	220 lbs	238C	238SC	239J	73.25
6 over 6	2x 84"x17"	86.375"	240 lbs	238D	238SD	239K	87.375

# 200 SERIES MOBILE ILLUMINATORS



Two styles of mobile illuminator bases have been created specifically for the 200 Series Console Style or Tilting Illuminators. The Desk Style Mobile Base is designed for easy, convenient reading while sitting. The Hi-Style base is ideal for lectures and conferences as well as general viewing when standing. Both bases are designed for strength, rigidity and convenience. Bases are mounted on ball bearing swivel casters for ease of mobility even on carpet. The length of these bases is matched to the number of banks of illuminators desired.



200 SERIES CONSOLE STYLE ILLUMINATOR ON HI-STYLE BASE

available in single or two tier configurations, from two to six banks wide - fixed 35° angled viewing

DEPTH OF BASE: 19"  
HEIGHT OF BASE: 36"

VIEWING AREA	EXTERIOR WIDTH	APPROX. SHIP WT	BAKED ENAMEL FINISH	STAINLESS STEEL FRONT	CATALOG NO.
Two Bank	28"x17"	32.75"	150 lbs	220A	220AS
Three Bank	42"x17"	46.75"	200 lbs	220B	220BS
Four Bank	56"x17"	60.75"	250 lbs	220C	220CS
Five Bank	70"x17"	74.75"	300 lbs	220D	220DS
Six Bank	84"x17"	88.75"	350 lbs	220E	220ES
<b>TWO TIER</b>					
2 over 2	2x 28"x17"	32.75"	190 lbs	220F	220FS
3 over 3	2x 42"x17"	46.75"	260 lbs	220G	220GS
4 over 4	2x 56"x17"	60.75"	330 lbs	220K	220KS
5 over 5	2x 70"x17"	74.75"	400 lbs	220H	220HS
6 over 6	2x 84"x17"	88.75"	470 lbs	220J	220JS

The Hi-Style Base is 36" high and 19" deep. The lower shelf is 12" above the floor.

The Desk Style Base is 25" high and 19" deep. A shelf in each of the two side compartments can be used for film or utility storage.

200 SERIES CONSOLE STYLE ILLUMINATOR ON DESK BASE

available in single or two tier configurations, from four to six banks wide - fixed 35° angled viewing

DEPTH OF BASE: 19"  
HEIGHT OF BASE: 25"

VIEWING AREA	EXTERIOR WIDTH	APPROX. SHIP WT	BAKED ENAMEL FINISH	STAINLESS STEEL FRONT	CATALOG NO.
Four Bank	56"x17"	60.75"	255 lbs	220P	220PS
Five Bank	70"x17"	74.75"	305 lbs	220Q	220QS
Six Bank	84"x17"	88.75"	355 lbs	220R	220RS
<b>TWO TIER</b>					
4 over 4	2x 56"x17"	60.75"	335 lbs	220	220S
5 over 5	2x 70"x17"	74.75"	405 lbs	220M	220MS
6 over 6	2x 84"x17"	88.75"	475 lbs	220L	220LS

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** Mobile Bases : light grey baked enamel. Illuminators: light grey baked enamel with Stainless Steel front or light grey baked enamel (on cold rolled steel).

**Electrical:** Supplied with a 6' three conductor cord. 120 volts, 60HZ. AC. Consult factory for other voltages.

\* **Optional Items:** Trigger start ballasts, automatic switches, double intensity illumination (pg. B-17) - hospital grade plugs, film clips and switch boxes - For ordering information see page B-30

\* **Optional Desk Base Items:** 207B Storage Drawer and 207C Pull-out Writing Shelf.



# 200 SERIES TILTING MOBILE ILLUMINATORS

MOBILE ILLUMINATORS

A uniquely designed arm bolted to the **Hi-Style Base** and **Desk Base** allows the 200 Series Illuminator *full range tilting ability*. The illuminator can be locked in a vertical or an angled position. Two tier models have an additional pivot in the center to allow the lower tier to tilt upwards and lock at 15°, 30°, 45° or 60° while the upper tier remains vertical, or the top and bottom tiers can be tilted as a unit and locked in the 15°, 30°, 45° positions.

## 200 SERIES TILTING ILLUMINATOR ON HI-STYLE BASE

available in single or two tier configurations, from two to six banks wide

Full Range Tilting - 15°, 30°, 45°, 60°

### TILTING ILLUM. on HI-STYLE BASE

VIEWING AREA	EXTERIOR WIDTH	APPROX SHIP WT	CATALOG NO.	
			BAKED ENAMEL FINISH	STAINLESS STEEL FRONT
Two Bank 28"x17"	37.375"	100 lbs	212	212S
Three Bank 42"x17"	51.375"	150 lbs	213	213S
Four Bank 56"x17"	65.375"	200 lbs	214	214S
Five Bank 70"x17"	79.375"	290 lbs	214A	214AS
Six Bank 84"x17"	93.375"	340 lbs	214B	214BS
Eight Bank 112"x17"	121.375"	440 lbs	214C	214CS
<b>TWO TIER</b>				
2 over 2 2x 28"x17"	37.375"	180 lbs	215	215S
3 over 3 2x 42"x17"	51.375"	250 lbs	216	216S
4 over 4 2x 56"x17"	65.375"	320 lbs	217	217S
5 over 5 2x 70"x17"	79.375"	390 lbs	217C	217CS
6 over 6 2x 84"x17"	93.375"	460 lbs	217D	217DS

ALL MEASUREMENTS ARE ± 1/16"



219 with lower tier tilted at a 30° angle



217 with lower tier tilted at a 30° angle

## 200 SERIES TILTING ILLUMINATOR ON DESK BASE

available in single or two tier configurations, from four to six banks wide

Full Range Tilting - 15°, 30°, 45°, 60°

### TILTING ILLUM. on DESK BASE

VIEWING AREA	EXTERIOR WIDTH	APPROX SHIP WT	CATALOG NO.	
			BAKED ENAMEL FINISH	STAINLESS STEEL FRONT
Four Bank 56"x17"	65.375"	205 lbs	218	218S
Five Bank 70"x17"	79.375"	295 lbs	218A	218AS
Six Bank 84"x17"	93.375"	345 lbs	218B	218BS
<b>TWO TIER</b>				
4 over 4 2x 56"x17"	65.375"	325 lbs	219	216S
5 over 5 2x 70"x17"	79.375"	395 lbs	219C	219CS
6 over 6 2x 84"x17"	93.375"	465 lbs	219D	219DS

**Finish:** Mobile Bases : light grey baked enamel.

Illuminators: light grey baked enamel with Stainless Steel front or light grey baked enamel (on cold rolled steel).

**Electrical:** Supplied with a 6' three conductor cord. 120 volts, 60HZ AC. Consult factory for other voltages.

\* **Optional Items:** Trigger start ballasts, automatic switches, double intensity illumination (pg. B-17) - hospital grade plugs, film clips and switch boxes - For ordering information see page B-30

\* **Optional Desk Base Items:** 207B *Storage Drawer* and 207C *Pull-out Writing Shelf*.

# 24 x 30cm and 18 x 24cm MAMMOGRAPHY SERIES



MAMMOGRAPHY



146012 shown with optional Console Arms at 20°angle (140272-20)

Specially designed for viewing **24x30cm** (146000 Series) or **18x24cm** (147000 Series) film, these series of illuminators feature **very bright and even lighting** in each viewing panel. The **146000** series has three F14T8/D daylight fluorescent bulbs per viewing section and the **147000** has two F14T8/D bulbs per section. Both series use electronic ballasts to produce flicker free lighting. *Each section is individually controlled* by an on/off rocker switch, thus allowing the person reading the film to reduce peripheral glare by simply switching off the sections not in use. To further reduce glare and prevent light spillover, the illuminators are provided with divided sections.

Each tier is constructed of heavy duty steel, with a continuous gravity grip to hold the film firmly in place, and a one piece plexiglass viewing panel. On multiple bank and two tier units switches are grouped together and mounted in the center of the bottom front panel of the bottom tier.

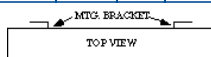
Recessed models are supplied with stainless steel recessing flanges and BX connector.

Light output **exceeds ACR requirements.**

For mammography viewers with curtains see pages B-5 and B-6.

### 24x30cm SURFACE MOUNTED MODELS

VIEWING AREA		EXTERIOR DIM		APPROX	STANDARD	AUTO
WIDTH	HGT	WIDTH	HGT	SHIP WT	SWITCH	SWITCH
DEPTH OF VIEWERS: 4.375"						
Single Bank 24x30cm	10.437"	16"	16"	21 lbs	146001	146021
Two Bank 48x30cm	19.875"	16"	16"	42 lbs	146002	146022
Three Bank 72x30cm	29.312"	16"	16"	63 lbs	146003	146023
Four Bank 96x30cm	38.750"	16"	16"	84 lbs	146004	146024
Five Bank 120x30cm	48.187"	16"	16"	105 lbs	146005	146025
Six Bank 144x30cm	57.625"	16"	16"	126 lbs	146006	146026
<b>TWO TIER</b>						
1 over 1 2x 24x30cm	10.437"	32"	32"	42 lbs	146011	146031
2 over 2 2x 48x30cm	19.875"	32"	32"	84 lbs	146012	146032
3 over 3 2x 72x30cm	29.312"	32"	32"	126 lbs	146013	146033
4 over 4 2x 96x30cm	38.750"	32"	32"	168 lbs	146014	146034
5 over 5 2x 120x30cm	48.187"	32"	32"	210 lbs	146015	146035
6 over 6 2x 144x30cm	57.625"	32"	32"	252 lbs	146016	146036



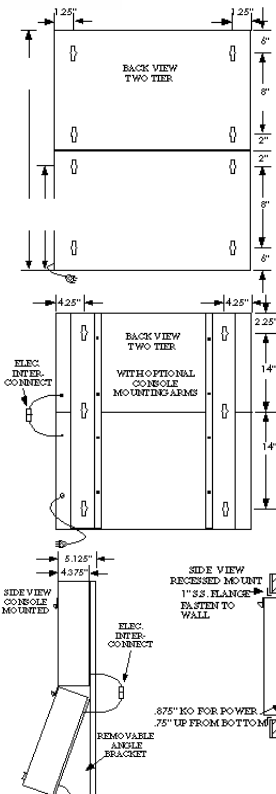
### 18x24cm SURFACE MOUNTED MODELS

VIEWING AREA		EXTERIOR DIM		APPROX	STANDARD	AUTO
WIDTH	HGT	WIDTH	HGT	SHIP WT	SWITCH	SWITCH
DEPTH OF VIEWERS: 4.375"						
Single Bank 18x24cm	8"	16"	16"	17 lbs	147001	147021
Two Bank 36x24cm	15.094"	16"	16"	34 lbs	147002	147022
Three Bank 54x24cm	22.187"	16"	16"	51 lbs	147003	147023
Four Bank 72x24cm	29.281"	16"	16"	68 lbs	147004	147024
Five Bank 90x24cm	36.375"	16"	16"	85 lbs	147005	147025
Six Bank 108x24cm	43.468"	16"	16"	102 lbs	147006	147026
<b>TWO TIER</b>						
1 over 1 2x 18x24cm	8"	32"	32"	34 lbs	147011	147031
2 over 2 2x 36x24cm	15.094"	32"	32"	68 lbs	147012	147032
3 over 3 2x 54x24cm	22.187"	32"	32"	102 lbs	147013	147033
4 over 4 2x 72x24cm	29.181"	32"	32"	136 lbs	147014	147034
5 over 5 2x 90x24cm	36.375"	32"	32"	170 lbs	147015	147035
6 over 6 2x 108x24cm	43.468"	32"	32"	204 lbs	147016	147036

**Finish:** Light gray baked enamel (on cold rolled steel).

**Electrical:** Viewers operate on 120 volt, 60 Hz AC; 146000 SERIES - .8 Amps 147000 SERIES - .6 Amps per viewing area Surface mounting models are supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

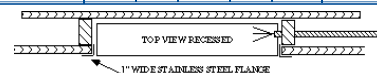
\* **Optional Items:** Console Arms (pg B-25), Film Activated Switches (pg B-17), hospital grade plugs, 68H custom formica shelf & 68HB wall mounting bracket (pg B-30) .



ALL MEASUREMENTS ARE ± 1/16"

### 24x30cm RECESSED MODELS

VIEWING AREA		EXTERIOR DIM		WALL OPENING	APPROX	STANDARD	AUTO
WIDTH	HGT	WIDTH	HGT	WALL	SHIP	SWITCH	SWITCH
Single Bank 24x30cm	10.437"	16"	16"	10.687"	21 lbs	146041	146061
Two Bank 48x30cm	19.875"	16"	16"	20.125"	42 lbs	146042	146062
Three Bank 72x30cm	29.312"	16"	16"	29.562"	63 lbs	146043	146063
Four Bank 96x30cm	38.750"	16"	16"	39.000"	84 lbs	146044	146064
Five Bank 120x30cm	48.187"	16"	16"	48.437"	105 lbs	146045	146065
Six Bank 144x30cm	57.625"	16"	16"	57.875"	126 lbs	146046	146066
<b>TWO TIER</b>							
1 over 1 2x 24x30cm	10.437"	32"	32"	10.687"	42 lbs	146051	146071
2 over 2 2x 48x30cm	19.875"	32"	32"	20.125"	84 lbs	146052	146072
3 over 3 2x 72x30cm	29.312"	32"	32"	29.562"	126 lbs	146053	146073
4 over 4 2x 96x30cm	38.750"	32"	32"	39.000"	168 lbs	146054	146074
5 over 5 2x 120x30cm	48.187"	32"	32"	48.437"	210 lbs	146055	146075
6 over 6 2x 144x30cm	57.625"	32"	32"	57.875"	252 lbs	146056	146076



### 18x24cm RECESSED MODELS

VIEWING AREA		EXTERIOR DIM		WALL OPENING	APPROX	STANDARD	AUTO
WIDTH	HGT	WIDTH	HGT	WALL	SHIP	SWITCH	SWITCH
Single Bank 18x24cm	8"	16"	16"	8.250"	17 lbs	147041	147061
Two Bank 36x24cm	15.094"	16"	16"	15.343"	34 lbs	147042	147062
Three Bank 54x24cm	22.187"	16"	16"	22.437"	51 lbs	147043	147063
Four Bank 72x24cm	29.281"	16"	16"	29.531"	68 lbs	147044	147064
Five Bank 90x24cm	36.375"	16"	16"	36.625"	85 lbs	147045	147065
Six Bank 108x24cm	43.468"	16"	16"	43.718"	102 lbs	147046	147066
<b>TWO TIER</b>							
1 over 1 2x 18x24cm	8"	32"	32"	8.250"	34 lbs	147051	147071
2 over 2 2x 36x24cm	15.094"	32"	32"	15.343"	68 lbs	147052	147072
3 over 3 2x 54x24cm	22.187"	32"	32"	22.437"	102 lbs	147053	147073
4 over 4 2x 72x24cm	29.181"	32"	32"	29.531"	136 lbs	147054	147074
5 over 5 2x 90x24cm	36.375"	32"	32"	36.625"	170 lbs	147055	147075
6 over 6 2x 108x24cm	43.468"	32"	32"	43.718"	204 lbs	147056	147076

## 14" X 36" SURFACE OR RECESSED

### SURFACE MOUNTED MODELS

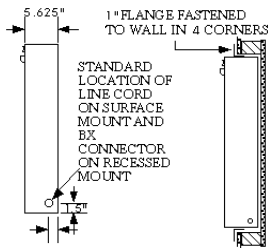
DEPTH OF VIEWERS: 5.25"

VIEWING AREA	EXTERIOR DIM WIDTH	HGT	APPROX SHIP WT	CATALOG NO.
Single Bank 14"x36"	15.625"	38.375"	36 lbs	101600
Two Bank 28"x36"	29.625"	38.375"	65 lbs	101610
Three Bank 42"x36"	43.625"	38.375"	120 lbs	101620
Four Bank 56"x36"	57.625"	38.375"	155 lbs	101630

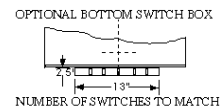
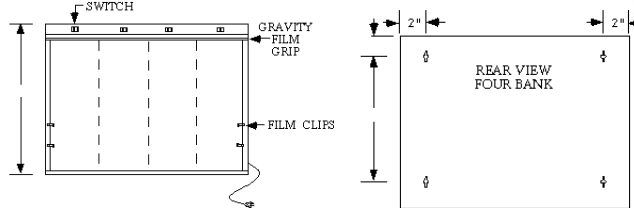
### RECESSED MODELS

VIEWING AREA	EXTERIOR DIM WIDTH	HGT	WALL OPENING WIDTH	HGT	APPROX SHIP WT	CATALOG NO.
Single Bank 14"x36"	15.625"	38.375"	15.875"	38.625"	40 lbs	101640
Two Bank 28"x36"	29.625"	38.375"	29.875"	38.625"	69 lbs	101650
Three Bank 42"x36"	43.625"	38.375"	43.875"	38.625"	125 lbs	101660
Four Bank 56"x36"	57.625"	38.375"	57.875"	38.625"	160 lbs	101670

ALL MEASUREMENTS ARE  $\pm 1/16"$



**\* Option: AUTOMATIC SWITCHES (FILM ACTIVATED AUTO SWITCH)** Automatic switches turn on or off as film is inserted or withdrawn from the film grips. A special three way switch is included with this option for choice of automatic or manual operating modes.



Create a unique mobile unit using the 200 series High Style Base (2 to 6 bank widths) or Desk Base (4 to 6 bank widths). Use only 14"x 36" illuminators or mix with two tier 200 Series Illuminators (double intensity option recommended) (see page B-19)

**Finish:** Light gray baked enamel (on cold rolled steel) **Electrical:** Viewers operate on 120 volt, 60 Hz, .65 Amps AC per viewing area. Supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

**\* Optional Items:** High Style Base, Desk Base (B-19), Hospital grade plugs, switch boxes, 68H custom formica shelf & 68HB wall mounting bracket, and hinge kits. For ordering info. see page B-30



## 14" X 51" SURFACE OR RECESSED

Constructed of heavy gauge cold rolled steel with four F60T12/D daylight fluorescent bulbs per viewing area and internal sectional dividers, these illuminators are ideal for Spine films. An on/off rocker switch is centered on the right front of each viewing area. A gravity film grip, extending the full width of the illuminator, holds the top of the film firmly in place, while a film retainer ledge supports film at the bottom of the viewing area. Three film clips spaced along the sides keep film from buckling. Recessed models are supplied with stainless steel recessing flanges and BX connector. The recessing flanges are provided loose (not attached to the illuminator) to allow for partial recessing in thin walls.

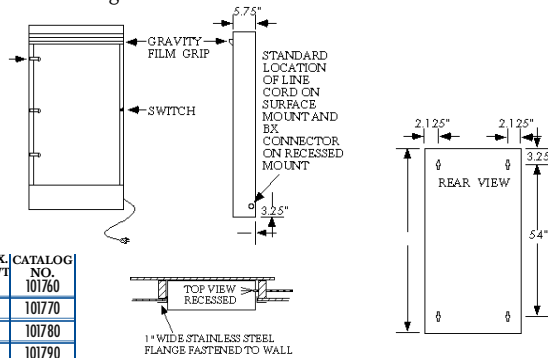
### SURFACE MOUNTED MODELS

DEPTH OF VIEWERS: 5.75"

VIEWING AREA	EXTERIOR DIM WIDTH	HGT	APPROX SHIP WT	CATALOG NO.
Single Bank 14"x51"	16.375"	60.5"	95 lbs	101710
Two Bank 28"x51"	30.375"	60.5"	160 lbs	101720
Three Bank 42"x51"	44.375"	60.5"	240 lbs	101730
Four Bank 56"x51"	58.375"	60.5"	320 lbs	101740

### RECESSED MODELS

VIEWING AREA	EXTERIOR DIM WIDTH	HGT	WALL OPENING WIDTH	HGT	APPROX SHIP WT	CATALOG NO.
Single Bank 14"x51"	16.375"	60.5"	16.625"	60.75"	95 lbs	101760
Two Bank 28"x51"	30.375"	60.5"	30.625"	60.75"	160 lbs	101770
Three Bank 42"x51"	44.375"	60.5"	44.625"	60.75"	240 lbs	101780
Four Bank 56"x51"	58.375"	60.5"	58.625"	60.75"	320 lbs	101790



ALL MEASUREMENTS ARE  $\pm 1/16"$

**Finish:** Light gray baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 2.5 Amps AC per viewing area. Supplied with a 6' three conductor line cord (see diagram for wiring locations). Recessed models come with BX connectors. For special voltages consult factory.

**\* Optional Items:** Modular Mobile System (pg B-23), Hospital grade plugs, switch boxes, 68H custom formica shelf & 68HB wall mounting bracket (pg B-30)



# MODULAR MOBILE ILLUMINATOR SYSTEM



200 series (234) shown with 168039 arms at a 20° angle, walnut grain formica top (168004), two bases w/ vertical partitions (168010)

Select the components that best suit your requirements and *customize your own mobile illuminator*. Designed with features suggested by radiologists to make film viewing easier and more convenient, the Modular Mobile System allows you the **choice of illuminator, mobile bases and mounting arms**.

Base modules and mounting arms are constructed of heavy gauge steel and finished in light gray baked enamel. Tops are made of wood with a choice of walnut grain or white formica laminate.

Mounting arms for one tier units (168038) fix the illuminators in a vertical position. Mounting arms for two tier units (168039) allow the *lower tier to be adjusted from vertical to an angle of 35°*. [If ordering the 149005 Mammography Illuminator 168040 arms will be needed.]

Base consoles are 24" deep and 27" high. The height of the bases can be increased to 36" by ordering 168020 leg extensions. The length of the formica top is determined by the size of the illuminator chosen. If choosing a three bank illuminator (or if only one of the base consoles is desired) a straight leg with casters (168013) is available.

## TO ORDER A MODULAR MOBILE SYSTEM

### SELECT:

1 - ILLUMINATOR STYLE: choose from the following series -

200, 2000, 4000, 2X, 4X,  
CIRCULITE, CHAMELEON,  
STREAMLINER III,  
DELUXE 470 OR

### PRECISION MAMMOGRAPHY SERIES

2 - NUMBER OF VIEWING AREAS

3 - MOUNTING ARMS (A)

4 - TWO BASE CONSOLES (B)

5 - FORMICA TOP (in white or walnut) (C)

If you have any questions our engineering department will be happy to assist you at 1-800-347-XRAY.

### FORMICA TOP (C)

DESCRIPTION	EXTERIOR DIM LENGTH	EXTERIOR DIM DEPTH	APPROX. SHIP WT	CAT.NO. WHITE OR WALNUT
Three Bank Wide	48"	24"	50 lbs	168003
Four Bank Wide	60"	24"	75 lbs	168004
Five Bank Wide	74"	24"	115 lbs	168005
Six Bank Wide	88"	24"	155 lbs	168006
Eight Bank Wide	116"	24"	195 lbs	168008

### MOUNTING ARMS (A)

DESCRIPTION	APPROX. SHIP WT	CAT.NO.
For Single Tier Illum.	60 lbs	168038
For Two Tier Illum.	70 lbs	168039
For 149005 Illum.	70 lbs	168040

### BASE CONSOLES (B)

DESCRIPTION	EXTERIOR DIM LENGTH	EXTERIOR DIM DEPTH	APPROX. SHIP WT	CAT.NO.
W/Vertical Partitions	19"	24"	75 lbs	168010
W/Shelf & Drawer	19"	24"	75 lbs	168011
W/Horiz. Shelf	19"	24"	75 lbs	168012
Straight Leg	19"	24"	50 lbs	168013

Straight Leg (168013)



Base With Vertical Partitions (168010)



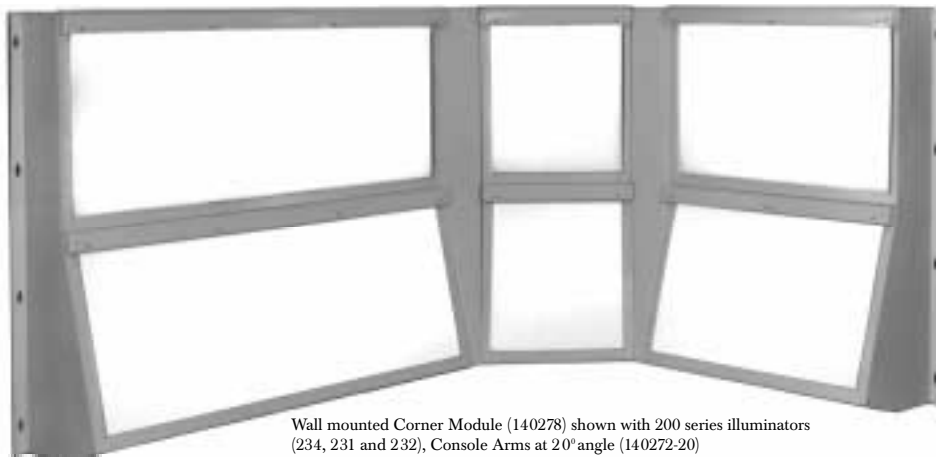
Base With Writing Shelf and Drawer (168011)



Base With One Horizontal Shelf (168012)







Wall mounted Corner Module (140278) shown with 200 series illuminators (234, 231 and 232), Console Arms at 20° angle (140272-20)

*For a sharp professional appearance in your reading room* our **Corner Modules** are designed to maximize usable space in a reading room while creating an attractive functional reading station. They can be *custom configured to suit the users requirements*, and *are able to be wall mounted or desk mounted*. The Corner Module fills a corner space and mates with a two tier illuminator on each side (see choice of illuminators below) to form an attractive custom designed wall unit. The *bottom tier can be fixed at a 20° or 35° angle for ease of viewing*. The Corner Module can hold a single bank two tier, a two bank two tier, single bank on top and a Bright Spot below or a single on top and a solid filler in the bottom tier.

Corner Modules are constructed of cold rolled steel and are finished to match the illuminators selected.

**CATALOG # 140278** (Corner Module only)

\* **Optional Items:** 68H custom formica shelf & 68HB wall mounting bracket (pg B-30)

### TO ORDER A CORNER MODULE

please **SUBMIT A ROUGH SKETCH** with room dimensions showing the location and style of illuminator chosen, the number of viewing sections, the angle of the console arms and what you wish built into the corner module. *If you have any questions our engineering department will be happy to assist you at 1-800-347-XRAY.* (If optional switch boxes are ordered special interconnects may be required for electrical hook-up between illuminators (cat.# 140280 - see page B-30)

#### **SELECT:**

**1 - ILLUMINATOR STYLE:** choose from the following series -

**200, 2000, 4000, 2X, 4X, CIRCULITE, CHAMELEON, STREAMLINER III OR DELUXE 470**

**2 - NUMBER OF VIEWING AREAS**

**3 - ANGLE OF CONSOLE ARMS**

**4 - DESIGN OF CORNER MODULE**

**5 - DESK OR WALL MOUNT**

## HINGED CONNECTORS

This unique hinge permits mounting of illuminators in a *semi-circular side by side arrangement*. The hinge provides flexibility to gracefully span room corners or to set the illuminator sections to almost any desired position. The heavy duty full length hinges are factory installed on any combination of illuminators. (Angulated systems [i.e. console arms] cannot be used with hinged connectors).

To order please **submit a sketch**, with room dimensions, showing the location of the illuminators and hinges. If optional switch boxes are ordered special interconnects (cat.# 140280 - see page B-30) may be required for electrical hook-up between illuminators.



**CATALOG # 140276**

**SHIP. WT 16 LBS**

# FOUR BANK MOBILE STAND



This sturdy attractive mobile stand is designed to be used with the following models of one and two tier four bank illuminators:

**200, 2000, 4000, 2X, 4X, CIRCULITE, CHAMELEON, STREAMLINER III, OR DELUXE 470**

The base and illuminator mounting arms are made of heavy gauge steel (finished in brown baked enamel) for strength and stability.

The 1.25" thick wooden top is laminated with white formica for durability. The entire unit is mounted on 3" swivel casters for ease of mobility.

### FOUR BANK MOBILE STAND

DESCRIPTION	EXTERIOR DIM			APPROX. SHIP WT	CATNO.
	HGT	DEPTH	WIDTH		
Single Tier	29.25"	25.25"	59.625"	100 lbs	140100
Two Tier	29.25"	25.25"	59.625"	100 lbs	140103

### Optional Items

DESCRIPTION	APPROX. SHIP WT	CATNO.
Pull-out Shelf	20 lbs	140110
Shallow Drawer	20 lbs	140111
Hinged Recorder Shelf	40 lbs	140112

Shown with optional Pull-out Shelf (140110), Shallow Drawer (140111), and Hinged Recorder Shelf (140112).

## CONSOLE ARMS FIXED ANGLE VIEWING

Console Arms add the convenience and comfort of angulated viewing (fixed at either a 20° or 35° angle) to the following single and two tier wall mount illuminators:

**2000, 4000, 2X, 4X, CIRCULITE, CHAMELEON, STREAMLINER III, DELUXE 470 OR PRECISION MAMMOGRAPHY SERIES**

They are available in rear mount, side mount and desk mount configurations. Configuration needs to be specified at time of illuminator order (to enable factory modifications of illuminator wiring).

Console Arms are made of heavy gauge steel and finished in baked enamel to match the illuminators chosen.

### CONSOLE ARMS

	APPROX. SHIP WT	CATALOG NO.
Single Tier 20° Angle	20 lbs	140271-20
Single Tier 35° Angle	20 lbs	140271-35
<b>TWO TIER</b>		
Two Tier 20° Angle	25 lbs	140272-20
Two Tier 35° Angle	25 lbs	140272-35



Shown: Rear Mount Console Arms

## ADJUSTABLE ANGLED VIEWING

(Angulated viewing system)

Adjust the viewing angle (of the lower tier) of a two tier illuminator from 0° to 35° to meet your specific needs. Special lock knobs make it easy to adjust the angle of the lower tier to afford maximum comfort while reading films.

For use with the following wall mount illuminators:

**200, 2000, 4000, 2X, 4X, CIRCULITE, CHAMELEON, STREAMLINER III, DELUXE 470 OR PRECISION MAMMOGRAPHY SERIES**

Made of heavy gauge steel and finished in baked enamel to match the illuminators chosen.

**MUST BE FACTORY INSTALLED**

**CATALOG # 140279  
SHIP. WT 7 LBS**





## 185 AND 185I HIGH INTENSITY

A six inch diameter **superbright, superior high intensity, viewing area** for reading **industrial films**. These viewers come with an on/off foot switch and a set of steel masks to reduce the size of the viewing area. A *variable intensity electronic control* allows you to adjust the brightness of the 500 watt photoflood bulb. These illuminators are *power air cooled*.

The model **185I**, in addition to the above, has an *adjustable iris* which cones down the viewers light source for *reading smaller film areas*.

**EXTERIOR DIMENSIONS:** 9" Wide 18" High 14" Deep  
approx. shipping weight: 185 - 29 lbs 185I - 30 lbs.

**Finish:** Light Gray baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 5 Amp AC. Supplied with a 6' three conductor line cord. For special voltages consult factory.



## 186 HIGH INTENSITY FLUORESCENT

*Ten 15 watt fluorescent bulbs* mounted in a special reflector system produce an **extremely bright even illumination for viewing industrial films**. The three position toggle switch allows you to choose full brightness, activate the **electronic intensity control** or turn the unit off. The *stepless electronic variable intensity control* gives full range of illumination. A stainless steel gravity grip extending the full width of the 14"x17" plexiglass viewing panel holds the film firmly in place.

**EXTERIOR DIMENSIONS:** 15.5" Wide / 24.25" High / 10" Deep  
approx. shipping weight 52 lbs.

**Finish:** Light gray baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 186 - 3.5 Amp AC 189 - 15 Amp AC. Supplied with a 6' three conductor line cord.

## 189 HIGH INTENSITY PHOTOFLOOD

Three number 2 - 500 watt photoflood bulbs provide **extremely bright even illumination for viewing industrial films**. Heat is dissipated by a powerful blower, with a removable fiberglass dust filter, and a heat absorbing glass filter. An on/off toggle switch and a *continuous stepless electronic control* provide **variable intensity lighting**. The 14"x17" viewing surface is white translucent plexiglass. Four lift up film clips across the top edge of the viewer hold film firmly in place.

**EXTERIOR DIMENSIONS:** 16.5" Wide / 27.5" High / 20" Deep  
approx. shipping weight 127 lbs.

**Finish:** Light gray baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 186 - 3.5 Amp AC 189 - 15 Amp AC. Supplied with a 6' three conductor line cord.



## 187A 4.5" x 17" HIGH INTENSITY

**Designed for industrial radiography.** Four number 1 photoflood bulbs provide 1000 watts of brightness. An internal heat absorbing glass protects film from heat damage. The cooling system utilizes a power driven air supply with replaceable air filters. The **electronic brightness control** and a built in low light level *writing light* are mounted at the front of the viewer. This illuminator comes with an on/ off foot switch and a set of four steel masks for reading 4.5"x10", 3.5"x17", 3.5"x10" or 70mm film.

**EXTERIOR DIMENSIONS:** 24" Wide 10" High 10" Deep approx. shipping weight: 35 lbs.

**Finish:** Light Grey baked enamel (on cold rolled steel)

**Electrical:** Viewers operate on 120 volt, 60 Hz, 9 Amp AC. Supplied with a 6' three conductor line cord. For special voltages consult factory.

HIGH INTENSITY

## DENTAL SINGLE MOUNT ILLUMINATOR



The finest Dental Film Illuminator available. Designed to accommodate oblong films in a 4.5"x13" viewing area. Two stainless steel roller clips are mounted at the top to hold film firmly. One F14T8/D 14 watt fluorescent bulb provides illumination thru the plexiglass viewing panel. Units are available for wall, desk, or recessed mounting.

### SURFACE MOUNTED MODELS

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		BAKED ENAMEL	STAINLESS STEEL
4.5"x13"	16.25"	7"	8 lbs	250A	250B

### RECESSED MODELS

VIEWING AREA	RECESS DIM			APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	DEPTH		BAKED ENAMEL	STAINLESS STEEL
4.5" x 13"	15.25"	5.875"	3.25"	8 lbs	250	250S

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** White baked enamel or stainless steel fronts

**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord.

## DENTAL TWIN MOUNT ILLUMINATOR



Solid, quality construction separates us from our competitors. Ideal for large mount dental film or viewing two sets of film at one time. Two F14T8/D 14 watt fluorescent bulbs and one piece plexiglass panel provide optimal viewing. Two stainless steel roller clips at the top of the viewer and two at the bottom hold film firmly in place. Wall, desk or recessed models.

### SURFACE MOUNTED & DESK MODELS

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT		BAKED ENAMEL	STAINLESS STEEL
8"x13"	15.125"	13.125"	10 lbs	251	253S
10"x12"	15.125"	13.125"	14 lbs	251A	251B

### RECESSED MODELS

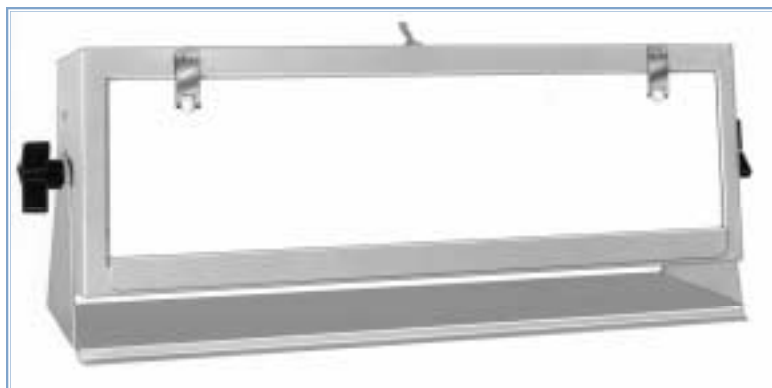
VIEWING AREA	RECESS DIM			APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	DEPTH		BAKED ENAMEL	STAINLESS STEEL
8" x 13"	15.375"	13.375"	3.625"	10 lbs	252	253
10" x 12"	15.375"	13.375"	3.625"	14 lbs	252A	253A

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** White baked enamel or polished stainless steel fronts

**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord.

## 4.5" X 17" ILLUMINATOR



An inexpensive yet excellent viewer for reading strip or mounted film up to 4.5"x17". Viewers are mounted in a swivel base and can be set on a desk or mounted on a wall. Two F15T8/D 15 watt fluorescent bulbs produce bright even light thru a plexiglass viewing panel.

### SURFACE MOUNTED MODELS

VIEWING AREA	EXTERIOR DIM		APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT		
4.5"x17"	18.5"	8"	15 lbs	184

ALL MEASUREMENTS ARE ± 1/16"

**Finish:** White baked enamel

**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord.

## ECONOMY ILLUMINATOR

Although this illuminator has a **budget price** it is made with the same care found in higher priced models. It is constructed of *heavy gauge steel* and comes with an on/off switch, plexiglass viewing panel, four *stainless steel spring action film clips* and a film retainer ledge. The 14"x17" viewing area is illuminated by two F15T8/D daylight fluorescent bulbs.

DEPTH OF VIEWERS: 5.375"		EXTERIOR DIM		APPROX.	CATALOG
VIEWING AREA	WIDTH	HGT	SHIP WT		NO.
SingleBank	14"x17"	15.625"	18.25"	16lbs	200

ALL MEASUREMENTS ARE  $\pm \frac{1}{16}$ "



**Finish:** Light Grey baked enamel

**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord. For special voltages consult factory.

## 12" X 24" ILLUMINATORS

Designed to view three 8"x10" or two 10"x12" films at one time, this superior illuminator with built in reflectors and two F20T12/D daylight fluorescent bulbs produces bright even illumination. **Surface** and **Recessed** models are all steel construction with your choice of *Gravity Film Grips* or *Spring Film Clip Holders*.

### **SURFACE MOUNTED MODELS**

DEPTH OF VIEWERS: 5.25"		EXTERIOR DIM		APPROX.	CATALOG NO.
VIEWING AREA	WIDTH	HGT	SHIP WT	GRAVITY GRIP	FILM CLIP
SingleBank	12"x24"	24.625"	13.5"	25 lbs	254T 254

### **RECESSED MODELS**

DEPTH OF VIEWERS: 5.25"		EXTERIOR DIM		WALL OPENING		APPROX.	CATALOG NO.
VIEWING AREA	WIDTH	HGT	WIDTH	HGT	SHIP WT	GRAVITY GRIP	FILM CLIP
Single Bank	12"x24"	24.625"	13.5"	24.875"	13.75"	26 lbs	254RT 254R

ALL MEASUREMENTS ARE  $\pm \frac{1}{16}$ "



**Finish:** Light Grey baked enamel

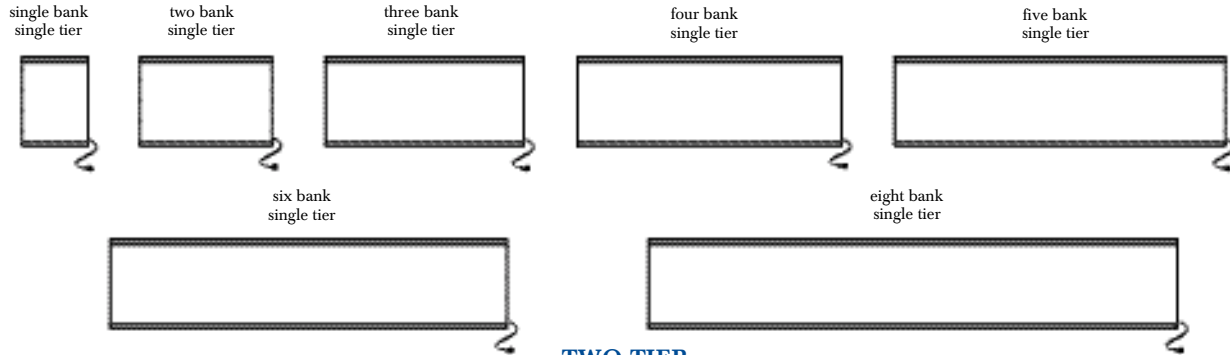
**Electrical:** Viewers operate on 120 volt, 60 Hz, .75 Amps AC per viewing area. Supplied with a 6' three conductor line cord. For special voltages consult factory.

**NEED HELP IN SELECTING THE RIGHT ILLUMINATOR FOR YOUR APPLICATION? CALL US AT 800 - 347 - XRAY AND WE'LL BE HAPPY TO ASSIST YOU!**

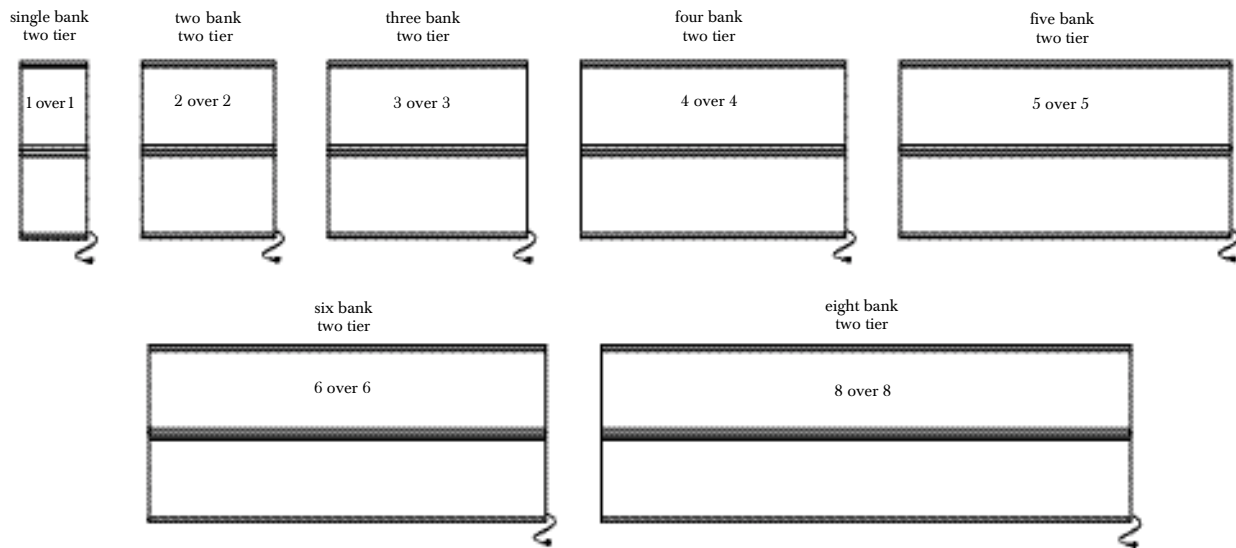
# GENERAL INFORMATION



## SINGLE TIER



## TWO TIER



Standard cords are 6' - 3 conductor NEMA 5 - 15P line cord.

Standard cord position: Lower right hand side when facing unit.

Standard Electrical: 120volts 60Hz AC

Switch type and position vary depending on models chosen.

All multiple bank units (up thru 6 bank) have one piece continuous plexiglass

8 bank units have two pieces of Plexiglas™ each four banks long.

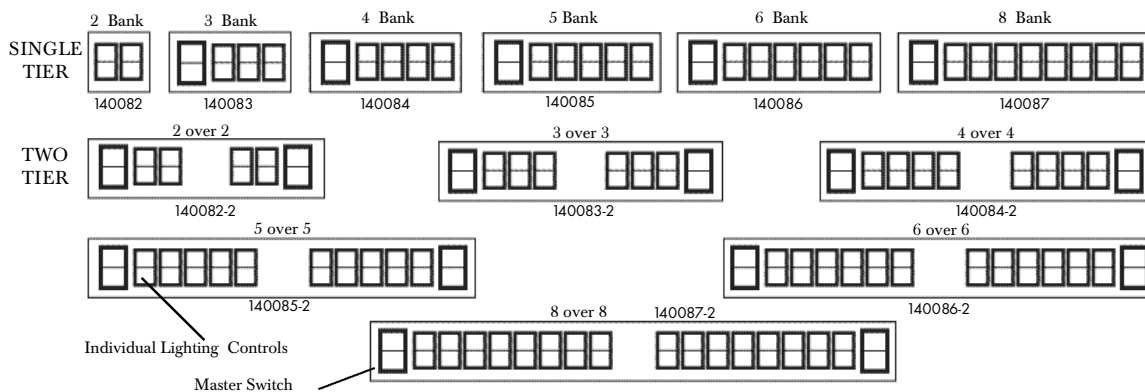
Optional cluster switches are available for all multiple bank single or two tier illuminators. (see page B-30 for details)

# OPTIONAL ILLUMINATOR ACCESSORIES

**CLUSTER SWITCH BOXES :** Controls individual lighting in viewing sections from one central location. The Switch boxes are mounted on the bottom center of the illuminator (unless otherwise specified when ordering). For *Illuminators three bank and larger* switch boxes have a master switch for each tier and individual switches for each section. **Note:** Not UL listed in all applications.

**MUST BE FACTORY INSTALLED** (specify option when ordering)

## STANDARD CONFIGURATION OF OPTIONAL CLUSTER SWITCH BOXES



VIEWING AREA	APPROX SHIP WT	CATALOG NO. STANDARD	REMOTE (W/8' CABLE)
2 Bank	5 lbs	140082	140092
3 Bank	5 lbs	140083	140093
4 Bank	5 lbs	140084	140094
5 Bank	5 lbs	140085	140095
6 Bank	5 lbs	140086	140096
8 Bank	5 lbs	140087	140097



VIEWING AREA	APPROX SHIP WT	CATALOG NO. STANDARD	REMOTE (W/8' CABLE)
2 over 2	8 lbs	140082-2	140092-2
3 over 3	8 lbs	140083-2	140093-2
4 over 4	8 lbs	140084-2	140094-2
5 over 5	8 lbs	140085-2	140095-2
6 over 6	8 lbs	140086-2	140096-2
8 over 8	16 lbs	140087-2	140097-2

**ELECTRICAL INTERCONNECT:** Multiconductor cable with male and female plug terminations for electrically interconnecting special custom illuminator arrangements (i.e. for use with corner modules or hinge kit units)

**Catalog # 140280** **MUST BE FACTORY INSTALLED** (specify option when ordering)

**HOSPITAL GRADE PLUGS:** Satisfies local electrical codes requiring a line plug that is designed for high abuse hospital environment.

**CATALOG # 140281**

**OPERATING ROOM OPTION:** Testing and selection of ballasts with the lowest possible leakage to ground. Ideal for use with ground fault detection systems.

**NOTE: Illuminators supplied with this option are not explosion proof.**

# OF VIEWING SECTIONS	CATALOG #
1	195A
2	195B
3	195C
4	195D
5	195E
6	195F
8	195G

**SHELVES FOR SURFACE MOUNTED ILLUMINATORS:** Custom built 3/4" thick formica shelf.

**CATALOG # 68H** Specify length and depth when ordering.



**BRACKET FOR 68H:** Optional bracket for mounting 68H custom shelves.

**CATALOG #68HB** Consult factory for quantity needed

# PBL WALL CASSETTE HOLDERS



CASSETTE HOLDERS



This cassette holder is certified equipment. It can be used in certified or non-certified installations when installer complies with appropriate regulations.

- SOLID STATE INTERFACE LOGIC
- COUNTERBALANCED - ONE HAND OPERATION
- 3 OR 4 SIZE FORMATS
- LEFT OR RIGHT HAND LOAD
- 32", 44" OR 56" TRAVEL

These certified wall cassette holders are designed for the heavy duty use of a large hospital but priced to satisfy the small radiology department. Built-in PBL compatibility is automatic and instantaneous. The unique S&S flipper design makes changing cassette sizes nearly effortless.

Sturdy box girder construction, nylon bearings, dual lock system, constant torque counterbalances and chrome plated steel tubes give these cassette holders their unique quality.

These cassette holders are easy to use. A cassette simply slides into the track, and it's ready. Height can be adjusted from either the right or left side with one hand; the counterbalances do the work. Cassette sizes can easily be changed by lifting one of the flippers and sliding in a new cassette. As the cassette slides into place, it passes across several ball activated microswitches in the bottom track.

Each cassette size sets up its own circuit path and, in conjunction with a built-in solid state interface, sets the collimator for the cassette in use. [**Important Note: CASSETTE HOLDERS ARE SUPPLIED COMPLETE WITH INTERFACE LOGIC FOR MOST TYPES OF COLLIMATORS. WHEN ORDERING PLEASE SPECIFY NAME AND TYPE OF COLLIMATOR BEING USED.**] No exposure will be permitted if the cassette is not fully inserted or if an unauthorized size is inserted. Adjustable grid channels are provided to allow use of a 14"x17" (15"x18" OD) stationary grid.

**Finish:** light grey baked enamel.

### PBL WALL CASSETTE HOLDER

DEPTH : 7.25"

CASSETTE FORMAT				EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
RIGHT HAND LOADING				TRAVEL	WIDTH	HGT		
14x17"	17x14"	10x12"		32"	21"	61"	60 lbs	222210
14x17"	17x14"	10x12"	8x10"	32"	21"	61"	62 lbs	222450
14x17"	17x14"	8x10"		32"	21"	61"	54 lbs	222400
14x17"	17x14"	10x12"		44"	21"	73"	67 lbs	222220
14x17"	17x14"	10x12"	8x10"	44"	21"	73"	67 lbs	222470
14x17"	17x14"	8x10"		44"	21"	73"	65 lbs	222430
14x17"	17x14"	10x12"		56"	21"	85"	76 lbs	222221
14x17"	17x14"	10x12"	8x10"	56"	21"	85"	76 lbs	222471
14x17"	17x14"	8x10"		56"	21"	85"	76 lbs	222431
LEFT HAND LOADING								
14x17"	17x14"	10x12"		32"	21"	61"	62 lbs	222230
14x17"	17x14"	10x12"	8x10"	32"	21"	61"	60 lbs	222460
14x17"	17x14"	8x10"		32"	21"	61"	54 lbs	222420
14x17"	17x14"	10x12"		44"	21"	73"	65 lbs	222240
14x17"	17x14"	10x12"	8x10"	44"	21"	73"	67 lbs	222480
14x17"	17x14"	8x10"		44"	21"	73"	65 lbs	222440
14x17"	17x14"	10x12"		56"	21"	85"	76 lbs	222241
14x17"	17x14"	10x12"	8x10"	56"	21"	85"	76 lbs	222481
14x17"	17x14"	8x10"		56"	21"	85"	76 lbs	222441

MAXIMUM OPENING FOR GRID - .312"



# WALL CASSETTE HOLDERS

FOR USE WITH NON-PBL SYSTEMS \*

**EXTRA HEAVY DUTY**  
**COUNTERBALANCED - ONE HAND OPERATION**  
**ADJUSTABLE FOR CASSETTE SIZES UP TO 14"x17" OR 14"x36"**  
**LOAD FROM EITHER SIDE**

These Extra Heavy Duty deluxe cassette holders are designed to accommodate any size cassette up to 14"x17" (222070) or 14"x36" (222070M)

Simple, durable and cost effective, these wall cassette holders are certified for use in general purpose x-ray rooms that **do not have PBL** (positive beam limitation) capability.

Heavy duty box girder construction is used for the cassette holder carriages and the top wall mounting bracket.

Heavy gauge chrome plated steel tubes provide a smooth non-binding surface for the nylon carriage bearings. Constant torque counterbalancing springs allow effortless vertical movement. The dual locking system enables the operator to adjust the vertical positioning of the cassette carriage with one hand from either side of the patient.

Both models are equipped with adjustable grid channels to accept a stationary grid.

The 222070 has a maximum vertical travel of 47" when a 14"x17" cassette is used and the 222070M has a maximum vertical travel of 28" when a 14"x36" cassette is used.

**\* Important Note:**

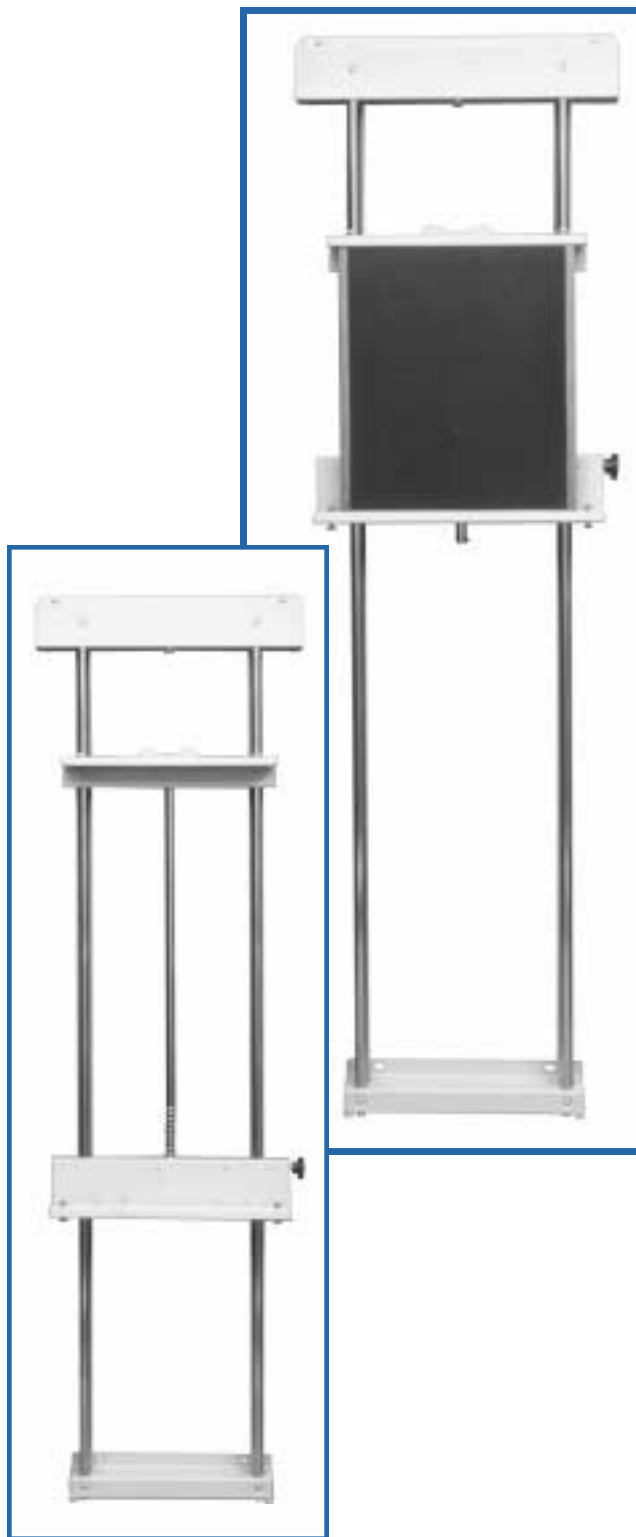
**REGULATIONS REQUIRE THAT THESE CASSETTE HOLDERS BE REMOVED FROM SERVICE SHOULD PBL BE ADDED TO SYSTEM AT A LATER DATE.**

**Finish:** light grey baked enamel with chrome plated steel tubes.

**WALL MODEL EXTRA HEAVY DUTY CASSETTE HOLDER**

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
		WIDTH	HGT	DEPTH		
5x7" thru 14x17"	47"	21"	72"	6"	70 lbs	222070
5x7" thru 14x36"	28"	21"	72"	6"	70 lbs	222070M

MAXIMUM OPENING FOR GRID - .312"



CASSETTE HOLDERS

# WALL & FLOOR CASSETTE HOLDERS

FOR USE WITH NON-PBL SYSTEMS \*



No. 130A Shown with option 133



No. 132 Floor Model Cassette Holder

- COUNTERBALANCED - ONE HAND OPERATION
- CHOICE OF WALL OR FLOOR MODELS
- ADJUSTABLE FOR ALL CASSETTE SIZES
- LOAD FROM EITHER SIDE

Here are simple, cost effective wall cassette holders certified for use in general purpose x-ray rooms that *do not* have PBL (Positive Beam Limitations) capability.

These counterbalanced, effortless all steel cassette holders are designed for ease of movement and finger tip adjustments. All models are supplied with a chin rest and a positive locking system.

Models 130A and 132 are adjustable to accept cassette sizes from 5"x7" up to 14"x17". The model 131A will accept all sizes up to 14"x36". All models also have independent adjustable grid channels.

The **Floor Model Cassette Holder** (model 132) uses model 130A mounted to a sturdy chrome plated steel vertical column and secured to a base constructed of heavy gauge steel with a non-slip rubber top. The base measures 14"W. x 19"L. x 2.5" H. The overall height of the complete unit is 73".

**\*Important Note:**

**REGULATIONS REQUIRE THAT THESE CASSETTE HOLDERS BE REMOVED FROM SERVICE SHOULD PBL BE ADDED TO SYSTEM AT A LATER DATE.**

**WALL MODEL CASSETTE HOLDER**

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.		APPROX. SHIP WT	DEPTH: 5"
		WIDTH	HGT		CATALOG NO.
5x7" thru 14x17"	22"	14.5"	47"	15 lbs	130A
5x7" thru 14x17"	33"	14.5"	66"	24 lbs	131A

MAXIMUM OPENING FOR GRID - .562"

**FLOOR MODEL CASSETTE HOLDER**

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.		APPROX. SHIP WT	OVERALL HEIGHT: 73"
		WIDTH	HGT		CATALOG NO.
5x7" thru 14x17"	22"	14.5"	47"	70 lbs.	132
	DEPTH	WIDTH	HGT		
Base Dim.	19.25"	13.75"	2.5"		

MAXIMUM OPENING FOR GRID - .562"

**Finish:** light grey baked enamel with chrome plated steel tubes.

**Optional Items:** 133: A convenient height scale to assist in aligning X-Ray tube to cassette. (for model 130A only) (approx. ship. wt. 6 lbs.)

## 14"x36" HEAVY DUTY WALL CASSETTE HOLDERS

- CERTIFIED FOR USE WITH ALL X-RAY SYSTEMS
- EXTRA HEAVY DUTY CONSTRUCTION
- COUNTERBALANCED - DUAL LOCK SYSTEM
- 24" OR 38" TRAVEL
- LOAD FROM EITHER SIDE

Designed specifically for 14"x36" cassettes, this heavy duty cassette holder is unequalled in construction and performance. Heavy duty box girder construction is used for the cassette holder carriage and the top and bottom wall mounting brackets. Heavy gauge chrome plated steel tubes provide a smooth non-binding surface for the nylon carriage rollers.

Constant torque counterbalancing springs allow effortless vertical movement. The dual locking system enables the operator to adjust vertical positioning of the cassette carriage with one hand from either side of the patient. Adjustable grid channels are provided to accept a stationary grid.

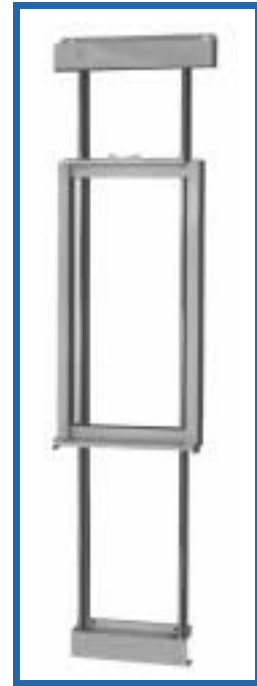
Two lengths of travel are available. The standard length is 24". For weight bearing studies we manufacture the 38" extended travel model.

**Finish:** light grey baked enamel.

**WALL MODEL EXTRA HEAVY DUTY CASSETTE HOLDER**

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
		WIDTH	HGT	DEPTH		
14" x 36"	24"	21"	71"	7.25"	80 lbs	222080
14" x 36"	38"	21"	85"	7.25"	90 lbs	222090

MAXIMUM OPENING FOR GRID - .25"



## MOTORIZED CASSETTE HOLDERS

- EFFORTLESS POSITIONING OF HEAVY CASSETTES
- TWO SPEED MOTOR
- ELECTRONIC DIGITAL HEIGHT SCALE
- AVAILABLE FOR 14" x 51" OR 14" x 36" CASSETTES
- LOAD FROM EITHER SIDE

Effortless positioning of the cassette in this motorized cassette holder is achieved by simply pressing the buttons that operate the two-speed motor to raise or lower it. The high speed permits fast positioning, the low speed allows fine adjustment. At a point three inches from the floor it stops to enable the operator to set the lower speed to continue to the floor slowly to avoid collisions. This allows an image to be taken from the floor up. The extra long travel achieves a maximum height of 83" above the floor.

This unique cassette holder is equipped with an *electronic digital height scale*, which is switchable between inches and centimeters, to further simplify its use.

**Finish:** light grey baked enamel.

**MOTORIZED CASSETTE HOLDER**

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
		WIDTH	HGT	DEPTH		
14" x 51"	83"	21.125"	83"	7	230 lbs	222110
14" x 36"	83"	21.125"	83"	7	230 lbs	222120

MAXIMUM OPENING FOR GRID - 3.12"

**Optional Items:** 474-1451 **Cassette Adapter:** Allows a 222110 (14"x51" Cassette Holder) to accept a 14"x36" cassette - see page C - 7



## X-ALMOR TABLE TOP CASSETTE HOLDER



- DESIGNED FOR CROSS TABLE WORK
- LIGHT IN WEIGHT
- STURDY CONSTRUCTION
- EASY TO USE

These strong table top holders are ideal for myelograms, skulls, AP-PA pelvic x-ray exams, and other cross-table examinations. The 490 will accept any size cassette thru 14"x17"x.75" thick. The 490EW has extra wide 1" channels for use with a stationary grid.

Both models have top stainless steel cassette channel guides that lift vertically to allow easy removal or insertion of cassettes. Stability is provided by the large aluminum base (12"x18") and sturdy design.

**Finish:** light grey baked enamel.

**TABLE TOP CASSETTE HOLDER**

APPROX SHIP WT	CATALOG NO.
10 lbs	490
10 lbs	490EW

## X-ALMOR WALL CASSETTE HOLDERS

FOR USE WITH NON-PBL SYSTEMS\*



- ADJUSTABLE FOR CASSETTES UP TO 14" x 17"
- COUNTERBALANCED - ONE HAND OPERATION
- LOAD FROM EITHER SIDE

Model 425 is an adjustable wall cassette holder that will accept all cassette sizes up to 14"x17". Contoured chin rest, grid channels, counterbalanced vertical travel and a positive locking knob are standard features in the model.

Sturdy all metal construction includes cast aluminum wall mounting brackets, stainless steel vertical travel rods and a heavy gauge steel cassette carriage.

**\*Important Note:**

**REGULATIONS REQUIRE THAT THESE CASSETTE HOLDERS BE REMOVED FROM SERVICE SHOULD PBL BE ADDED TO SYSTEM AT A LATER DATE.**

**Finish:** light grey baked enamel.

**Optional Item:** Cat. No. 605: Five foot stainless steel rods for additional travel.

**WALL MODEL CASSETTE HOLDER**

CASSETTE FORMAT	EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
	TRAVEL	WIDTH	HGT		
Up to 14" x 17"	19.5"	17"	37"	18 lbs	425

MAXIMUM OPENING FOR GRID - .187"



# X-ALMOR MOBILE FLOOR STAND CASSETTE HOLDER

- IDEAL FOR PORTABLE X-RAYS
- COUNTERBALANCED - ONE HAND OPERATION
- ADJUSTABLE FOR MOST CASSETTE SIZES

These mobile floor stand cassette holders are ideally suited for use with portable X-Ray units. The 475 cassette holder will accommodate all cassette sizes from eight to seventeen inches in either direction. The 475M is designed to accept all cassette sizes up to a 14"x36".

The sturdy floor stand is constructed of heavy gauge steel with a cast aluminum top and base. Wheels mounted to the rear of the base provide complete mobility when the stand is tilted backwards. Leveling screws are provided to assure firm floor contact for complete stability when unit is in use.

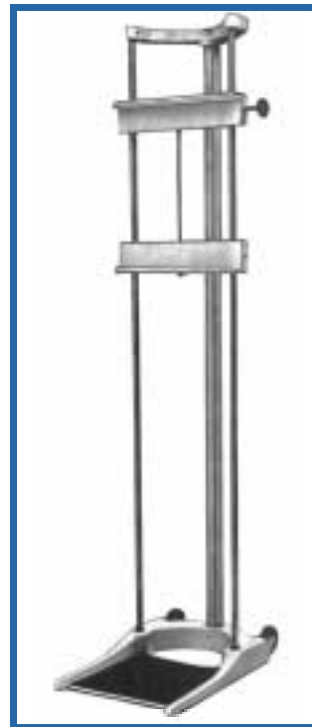
Features include: a chin rest, vertical counterbalancing, adjustable cassette channels, vertical lock, stainless steel vertical travel rods and grid channels for a stationary grid.

**Finish:** light grey baked enamel.

### MOBILE FLOOR STAND CASSETTE HOLDER

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.		DEPTH OF BASE	APPROX. SHIP WT	CATALOG NO.
		WIDTH	HGT			
8x10" thru 14x17"	42"	15"	69.75"	22.75"	110 lbs	475
8x10" thru 14x36"	23"	15"	69.75"	22.75"	110 lbs	475M

MAXIMUM OPENING FOR GRID - .187"



# X-ALMOR MOBILE TILTING CASSETTE HOLDER

- HOLDS CASSETTES IN ANY POSITION
- MULTIPLE APPLICATIONS
- COUNTERBALANCED - ONE HAND OPERATION
- ADJUSTABLE FOR MOST CASSETTE SIZES (UP TO 14x17")
- LOAD FROM EITHER SIDE

The 480 mobile tilting cassette holder is designed to go anywhere and hold a cassette in any position.

Features include: 58" vertical counterbalanced travel, 180° tilt capability, 360° rotation, telescopes to a forward extension of 22", accepts cassette sizes up to 14"x17", chin rest, a positive locking system and channels for a stationary grid.

The mobile stand is constructed of heavy gauge steel with a cast aluminum body and stainless steel vertical travel rods. The base which measures 16.5" wide and 24" deep is mounted on a set of hard rubber casters which provide complete mobility. A brake system on the rear casters allows the holder to be locked after positioning.

**Finish:** light grey baked enamel.

### MOBILE TILTING FLOOR STAND CASSETTE HOLDER

CASSETTE FORMAT	TRAVEL	EXTERIOR DIM.		DEPTH OF BASE	APPROX. SHIP WT	CATALOG NO.
		WIDTH	HGT			
8x10" thru 14x17"	58"	16.5"	64.5"	24"	129 lbs	480

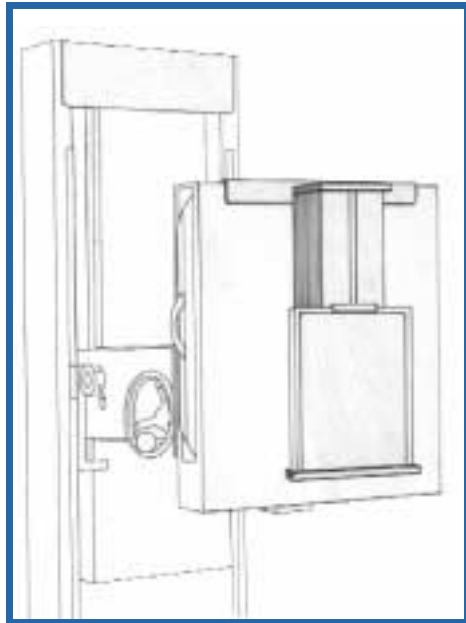
MAXIMUM OPENING FOR GRID - .187"



CASSETTE HOLDERS

# X-ALMOR PORTABLE HANG ON CASSETTE HOLDER

FOR USE WITH NON PBL SYSTEMS \*



- FITS MOST WALL MOUNTED BUCKYS
- ALL STAINLESS STEEL CONSTRUCTION
- ADJUSTABLE FOR MOST CASSETTE SIZES
- LOAD FROM EITHER SIDE

The 460 portable hang on cassette holder will fit most vertical wall mounted buckys. With the Hang On Cassette Holder positioned on the front panel of the bucky, non-bucky exposures can be made.

To use simply hang the top mounting bracket of the holder over the top of the bucky. There is no need for tools or fasteners of any kind. With the holder in position on the front panel of the bucky, the top cassette channel lifts vertically to allow easy removal or insertion of 8"x10" to 14"x17" cassettes. If required, permanently mounted grid channels will accommodate a stationary grid. The entire unit is constructed of polished stainless steel.

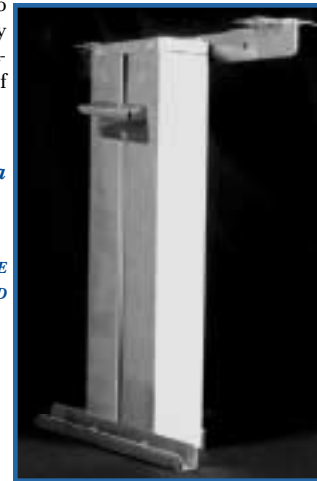
SPECIFY DEPTH OF BUCKY WHEN ORDERING

*The 460 Hang on adapter is to be used only as a portable device.*

**\*Important Note:**

*REGULATIONS REQUIRE THAT THESE CASSETTE HOLDERS BE REMOVED FROM SERVICE SHOULD PBL BE ADDED TO SYSTEM AT A LATER DATE.*

**Finish:** polished stainless steel.

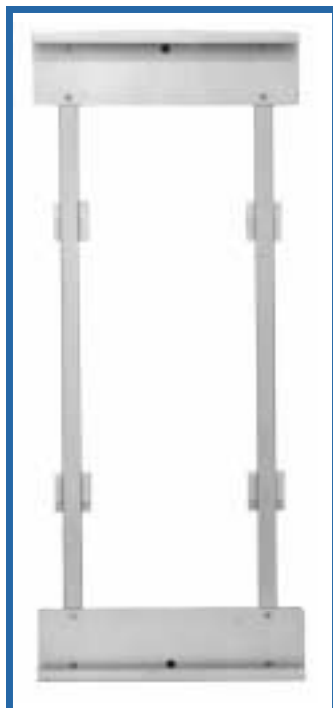


### 460 PORTABLE HANG ON CASSETTE HOLDER

CASSETTE FORMAT	EXTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH		
8x10" thru 14x17"	18"	20.75"	4.375"	10 lbs	460

MAXIMUM OPENING FOR GRID - .187"

# X-ALMOR 14"X36" ADAPTER SERIES



No. 474

- PORTABLE
- CONVERTS MOST CASSETTE HOLDERS
- ALUMINUM/STEEL CONSTRUCTION
- GRID CHANNELS
- LOAD FROM EITHER SIDE

This series enables your present cassette holder (or bucky) to accept a 14"x36" cassette and grid. The 474 is constructed of aluminum upright supports with glides which will fit most cassette holders. Simply set your holder for a 14"x17" cassette and slide the adapter into your holder as you would a cassette. Grid channels which will accept a 14"x36" stationary grid of .187" maximum thickness are built into the adapter.

The 474-1451 is the same as above but adapts our 222110 motorized 14"x51" cassette holder to accept 14"x36" cassette and grid.

The 474M is constructed of aluminum with steel brackets for hanging on to the front of a 14"x17" bucky.

SPECIFY DEPTH OF BUCKY WHEN ORDERING.

**Finish:** white.

### 14"x36" ADAPTER FOR

	EXTERIOR DIMENSIONS			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH		
14x17" Cassette Holder	15"	37.5"	3.25	12 lbs	474
14x51" Cassette Holder	15"	37.5"	3.25	15 lbs	474-1451
14x17" Bucky	15"	37.5"	ADJ	12 lbs	474M



# ALUMINUM INTERSPACED GRIDS

PROVIDES EXCELLENT DIAGNOSTIC CLARITY  
 WIDE SELECTION OF TYPES, RATIOS AND FOCAL RANGES  
 SUPERIOR CONSTRUCTION AND ALIGNMENT  
 FOR STATIONARY OR BUCKY APPLICATION

The finest materials, quality craftsmanship and superior construction combine to make these grids one of the finest grid products available. Select from 85 lines or 103 lines per inch models with a choice of focal ranges and ratios.

## 85 LINE STATIONARY GRIDS

FILM SIZE	RATIO	26-32" FOCUS	34-44" FOCUS	48-72" FOCUS	PARALLEL FOCUS
8"x10"	6:1	356121	356122	356123	356124
10"x12"	6:1	356321	356322	356323	356324
11"x14"	6:1	356421	356422	356423	356424
14"x14"	6:1	356521	356522	356523	356524
14"x17"	6:1	356621	356622	356623	356624
14"x36"	6:1	356721	356722	356723	356724
8"x10"	8:1	356131	356132	356133	356134
10"x12"	8:1	356331	356332	356333	356334
11"x14"	8:1	356431	356432	356433	356434
14"x14"	8:1	356531	356532	356533	356534
14"x17"	8:1	356631	356632	356633	356634
14"x36"	8:1	356731	356732	356733	356734
8"x10"	10:1	356141	356142	356143	356144
10"x12"	10:1	356341	356342	356343	356344
11"x14"	10:1	356441	356442	356443	356444
14"x14"	10:1	356541	356542	356543	356544
14"x17"	10:1	356641	356642	356643	356644
14"x36"	10:1	356741	356742	356743	356744
8"x10"	12:1	356151	356152	356153	356154
10"x12"	12:1	356351	356352	356353	356354
11"x14"	12:1	356451	356452	356453	356454
14"x14"	12:1	356551	356552	356553	356554
14"x17"	12:1	356651	356652	356653	356654
14"x36"	12:1	356751	356752	356753	356754

## 103 LINE STATIONARY GRIDS

FILM SIZE	RATIO	26-32" FOCUS	34-44" FOCUS	48-72" FOCUS	PARALLEL FOCUS
8"x10"	6:1	357121	357122	357123	357124
10"x12"	6:1	357321	357322	357323	357324
11"x14"	6:1	357421	357422	357423	357424
14"x14"	6:1	357521	357522	357523	357524
14"x17"	6:1	357621	357622	357623	357624
14"x36"	6:1	357721	357722	357723	357724
8"x10"	8:1	357131	357132	357133	357134
10"x12"	8:1	357331	357332	357333	357334
11"x14"	8:1	357431	357432	357433	357434
14"x14"	8:1	357531	357532	357533	357534
14"x17"	8:1	357631	357632	357633	357634
14"x36"	8:1	357731	357732	357733	357734
8"x10"	10:1	357141	357142	357143	357144
10"x12"	10:1	357341	357342	357343	357344
11"x14"	10:1	357441	357442	357443	357444
14"x14"	10:1	357541	357542	357543	357544
14"x17"	10:1	357641	357642	357643	357644
14"x36"	10:1	357741	357742	357743	357744
8"x10"	12:1	357151	357152	357153	357154
10"x12"	12:1	357351	357352	357353	357354
11"x14"	12:1	357451	357452	357453	357454
14"x14"	12:1	357551	357552	357553	357554
14"x17"	12:1	357651	357652	357653	357654
14"x36"	12:1	357751	357752	357753	357754

Overall dimensions of above grids are one inch greater than film size. Lead strips run parallel to long dimension.

## 85 LINE BUCKY GRIDS

OVERALL DIM.	6:1 RATIO	8:1 RATIO	10:1 RATIO	12:1 RATIO	FOCAL RANGE
17.25"x17.75"	358001	358002	358003	358004	Specify on order
17.25"x18.875"	358005	358006	358007	358008	Specify on order

## 103 LINE BUCKY GRIDS

OVERALL DIM.	6:1 RATIO	8:1 RATIO	10:1 RATIO	12:1 RATIO	FOCAL RANGE
17.25"x17.75"	359001	359002	359003	359004	Specify on order
17.25"x18.875"	359005	359006	359007	359008	Specify on order

Lead strips run parallel to short dimension of Bucky Grids.

SMOOTH SLIDE POINTER ASSEMBLY  
 UNIQUE NON-SLIP DESIGN  
 EASY TO READ INCH/CENTIMETER SCALE  
 HEAVY DUTY ALUMINUM CONSTRUCTION

## DELUXE CALIPERS

Deluxe Calipers feature smooth sliding pointer assemblies to facilitate adjustments during thickness measurements. Two pointers clearly indicate readings. A unique friction assembly design provides non-slip firm holding action to set and retain measurement. Bold easy to read black embossed caliper scale is calibrated in both inches and centimeters. The 169B reads from 0" to 16" and 0cm to 40cm. Sturdy 3/16" aluminum construction provides the strength needed to withstand frequent use and hard wear.

The larger model (169C) features a specially designed base that can easily slip under a patient who is lying flat on a table and reads from 0" to 24" and 0cm to 61cm.

- 169B - Heavy Duty Calipers approx. shipping Wt. - 2 lbs.
- 169C - Extra Large Calipers approx. shipping Wt. - 4 lbs.



GRIDS / CALIPERS

# EMERGENCY CARTS



- LIGHTWEIGHT ALUMINUM CONSTRUCTION
- PROOF-OF-ENTRY SEAL
- INTERNALLY MOUNTED DEFIBRILLATOR SWING-ARM AND I.V. POLE
- CARDIAC BOARD AND BRACKET

The **EMC1** Emergency Cart has been designed for quick and easy maneuverability, from its lightweight aluminum frame to the casters that roll comfortably over carpeted as well as non-carpeted floors. Perimeter bumpers protect the cart from damage. The molded ABS plastic top ensures long-lasting wear and is easy to clean, while the raised lip and sides contain spills and serve as cart handles. The EMC1 provides maximum storage capacity via two 3-inch drawers, one 6-inch drawer and two 9-inch drawers. Full-extension drawer slides ensure that all the contents of each drawer are visible and accessible. Drawer contents can be organized to fit your needs with aluminum and plastic dividers. Dividers for 6" or 9" drawers can be arranged to create up to nine compartments per drawer.

### EMERGENCY FEATURES:

Standard *defibrillator swing -arm* can be rotated a full 360° to expose the Emergency Cart's work surface for other instruments. Because the arm is internally mounted, cart stability is maintained even when a defibrillator is in use.

The *I.V. pole* is secured internally for strength and stability. The pole's height is adjustable for maximum flexibility.

The *oxygen tank bracket* is mounted within the recessed side to eliminate interference with connections and to protect the tank from damage as the cart is moved about.

*Cardiac board* slides easily out of brackets on the back of the cart for fast removal.

The *proof-of-entry flap* accommodates a variety of breakaway security seals, thus allowing quick access to cart contents.

A braking caster ensures that the Emergency Cart won't shift during procedures.

**EMC1-** I.V. Pole, Oxygen tank bracket, Defibrillator swing arm, Four 5" Casters (one with brake and one with locking swivel).

### Drawers:

2 - 3" deep with one divider set,  
1 - 6" and 2 - 9" deep with 1 set of dividers.

Overall cart size: 27 1/2"W.x22"D.x42 1/2"H.

Approx. shipping wt. 210 lbs.

**Finish:** Agean Blue



3" deep drawer accepts standard exchange trays.



Shown for EMC1 - 2 vertical and 2 horizontal aluminum dividers for 6" and 9" deep drawers. Create up to 9 compartments per drawer. Plastic dividers are used for the UC1

Shown for EMC1 - 3" deep drawer with 2 vertical aluminum and 5 adjustable plastic dividers. Vertical plastic dividers are used for the UC1



CARTS

# UTILITY CARTS



**UC1-** Four 4" Casters (two locking).

### Drawers:

1 - 3" deep with a divider set,  
2 - 6" and 1 - 9" deep with 1 set of dividers.

Overall cart size: 25 1/2"W.x18 1/2"D.x34"H

Approx. shipping wt. 140 lbs.

**Finish:** Sandstone Beige

### SMALL FOOTPRINT WITH MAXIMUM STORAGE CAPACITY

### SERVES MULTIPLE USES

### FULL-ACCESS DRAWERS

### DURABLE STEEL BODY

The **UC1** is a *versatile Utility Cart* that can serve in several capacities, such as supplies cabinet, treatment cart, bedside cart, or procedures support. The cart's compact design allows it to be placed in tight spots, yet its large drawers provide ample storage capacity. Cart contents are secured with a barrel lock.

The **UC1** provides maximum storage capacity via one 3-inch drawer, two 6-inch drawers and one 9-inch drawer. Full-extension drawer slides ensure that all the contents of each drawer are visible and accessible. Drawer contents can be organized to fit your needs with plastic divider sets.

A protective bumper around the base ensures the UC1 won't damage other equipment, while its steel frame promises years of durable use. The molded ABS plastic top provides long lasting wear. A raised lip ensures that spills are contained on the top for quick clean up. The 4" casters include two directional locks for enhanced maneuverability.



## WALL-MOUNTED CONTRAST CABINETS

### SPACE-SAVER CONTENTS SECURED

Model **CM10** Wall-Mounted Contrast Cabinet keeps contrast media accessible yet secure, while also saving valuable space in the radiology suite.

The cabinet has two fixed metal shelves to hold contrast media supplies. A latch-lock provides reliable security. When the cabinet is open, the door can be used as a sturdy work surface.

The durable steel construction and powder-coated finish ensure years of service. With its compact design, the Contrast Cabinet can be attached to any wall without interfering in department activities.

**Finish:** Sandstone Beige

**CM10**- Wall-Mounted Contrast Cabinet  
 Overall size: 17"W.x7<sup>1</sup>/<sub>8</sub>"D.x17<sup>1</sup>/<sub>4</sub>"H.  
 Approx. shipping wt. 45 lbs.




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## CONTRAST & PHARMACEUTICAL TABLETOP CABINETS

### SMALL FOOTPRINT SECURES CONTENTS VERSATILE USE

With its small footprint, the **CM20** and the **CM30** Tabletop Cabinets can be conveniently placed in the examination room. Contents are secured via a key-lock system (**CM20**) or an electronic locking feature (**CM30**) that eliminates the need for keys. Made of aluminum and steel with a powder-coated finish, these Tabletop Cabinets resist the dings and scratches caused by everyday use.

The cabinets contain one 6-inch storage drawer for large supplies and two cassettes. One cassette contains eight 4.125 inch wide drawers and one cassette contains six 5.5 inch wide drawers for medications and small supplies. The cassettes and drawers are removable for quick exchange at the pharmacy. Drawer contents can be organized with the divider sets: a six piece steel set for the storage drawers plus a pack of 100 dividers per cassette.

The **CM30** with *electronic locking system* eliminates the need for keys. Cabinet contents are accessed through up to two entry codes. Codes can be programmed to any number between three and eight digits. The Cabinet can be programmed to re-lock between six seconds and one hour. A key lock is also incorporated into the cabinet for system override.

**Finish:** Sandstone Beige



Shown: **CM30**- with electronic lock  
 Overall size: 19<sup>5</sup>/<sub>8</sub>"W.x22<sup>7</sup>/<sub>8</sub>"D.x23<sup>7</sup>/<sub>8</sub>"H.  
 Approx. shipping wt. 65 lbs.

# MOBILE CASSETTE & FILM CARTS

CONTOURED PADDED HANDLES

BACK SLOPED SHELVES

FULL PERIMETER BUMPER

LOCKING SWIVEL CASTERS



These cassette and film carts are designed to withstand the demands of busy radiology departments. Made of cold rolled steel, with high quality 5" polyurethane locking swivel casters, these sturdy carts are easy to maneuver.

Back sloped shelves, surfaced in non-marring plastic, prevent cassettes, film and envelopes from sliding off the cart. Full perimeter bumpers protect walls and equipment from damage. The contoured padded handles on both sides of the cart make travel in any direction easy.

**Finish:** light grey baked enamel.



**CFC 10** - 3 Compartments per shelf - Dividers are approx. 6.5" apart, the bottom storage area is 19" high, the top storage area is 15.5" high and the top shelf is 20"x13.5".

Overall cart size: 25"W.x18.5D."x42.5H. approx. shipping wt. 128 lbs.



**CFC 14** - Designed for heavy 14x36" or 14x51" cassettes. - 3 Compartments per shelf - Dividers are approx. 4.25" apart, the bottom and middle storage areas are 16" high. The long compartment, which is 7" wide, is designed for 14"x36" or 14"x51" cassettes. A hinged latch lock gate prevents cassettes from falling out. Overall cart size: 25"W.x18.5D."x50.5H. approx. shipping wt. 150lbs.



**CFC 12** - 5 Compartments per shelf - Dividers are approx. 4" apart, the bottom and middle storage areas are 15.75" high.

Overall cart size: 25"W.x18.5"D.x50.75H. approx. shipping wt. 170 lbs.



**CFC 16** - Film reading cart. 2 shelf cart with back-sloped shelves is designed to stack films horizontally to allow easy accessibility to envelope markings for identifying films quickly. The bottom storage area is 16" high, the top storage area is 15" high. There is a padded handle across the back of the unit for easy moving.

Overall cart size: 26.75"W.x16.75"D.x40"H. approx. shipping wt. 86 lbs.

## LEAD LINED STORAGE CHEST

- LEAD LINED
- DOUBLE WALL CONSTRUCTION
- FOUR SIZES
- MOBILE OR STATIONARY MODELS

Featuring rigid double steel construction with a 1/16" lead liner between each wall, the unique design of these chests makes it impossible for the lead liner to sag or shift. The liner is formed into the cover so that when closed, positive x-ray protection is assured. The cover is mounted on a full length, heavy duty piano hinge for lasting service. There are three handles on the chest, one welded to the lid and one on each end. Heavy duty double race ball bearing casters provide ease of mobility.

550, 550A and 551 are designed to hold cassettes up to 14"x17".

553 is specifically designed for spot film cassettes and is partitioned into two compartments.

The 553A is an *optional high base* with casters, designed specifically for the 553, to eliminate stooping and bending. The base with casters is 13.5" high bring the height of the chest to a comfortable 28.5". Approx. ship. weight: 25Lbs.



550- Mobile lead lined medium capacity chest.

**Finish:** light grey baked enamel.

### LEAD LINED STORAGE CHEST

CASSETTE SIZE	DESCRIPTION	INTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
		WIDTH	LENGTH	DEPTH		
Up to 14x17"	Medium capacity w/casters	8"	19"	16"	90 lbs	550
Up to 14x17"	Large capacity w/casters	11.25"	19"	16"	120 lbs	550A
Up to 14x17"	Extra large capacity w/casters	15"	19"	16"	147 lbs	551
Spot Film	Medium capacity	12"	13.5"	9"	53 lbs	553

## ALL STEEL STORAGE CHEST

- ALL STEEL CONSTRUCTION
- 14"x17" AND 14"x36" MODELS
- MOBILE OR STATIONARY MODELS

Constructed of 1/8" thick welded steel plate, these sturdy chests offer economical x-ray protection in many situations. The cover is mounted on a heavy gauge full length piano hinge and overlaps the walls of the chest to provide all around protection. There are three handles, one welded to the lid and one on each end of the chest. Mobile models have 2" double race ball bearing casters.

552 and 552A are designed to hold cassettes up to 14"x17".

552C and 552D are designed to hold cassettes up to 14"x36".

**Finish:** light grey baked enamel.



552A- Stationary all steel Storage Chest.

### ALL STEEL STORAGE CHEST

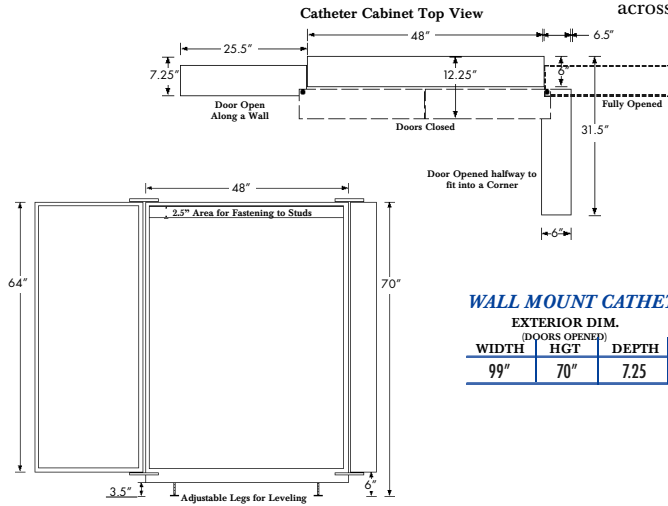
CASSETTE SIZE	DESCRIPTION	INTERIOR DIM.			APPROX. SHIP WT	CATALOG NO.
		WIDTH	LENGTH	HEIGHT		
Up to 14x17"	With Casters	8"	19"	16.5"	50 lbs	552
Up to 14x17"	Stationary	8"	19"	16.5"	50 lbs	552A
Up to 14x36"	With Casters	8"	36"	16.5"	100 lbs	552C
Up to 14x36"	Stationary	8"	36"	16.5"	100 lbs	552D

# WALL MOUNT CATHETER CABINET



- MAXIMUM CATHETER STORAGE FOR ALL SIZES & TYPES
- STORES CATHETER LENGTHS UP TO 60"
- FULLY ADJUSTABLE HORIZONTAL SPACING
- VERTICAL SPACING ADJUSTABLE IN 2" INCREMENTS
- HOLDS UP TO 24 CATHETERS PER HOOK

For optimal storage and organization the CC100 Cath cabinet maintains an orderly, dust-free, accessible environment for cardiac and interventional sterile catheters. It was engineered to hold the maximum number of catheters using a minimum of floor space, while maintaining easy access to the entire inventory. The cabinet is all-steel construction for durability. Center storage area is 48" across and each door gives 24" additional storage space.



### WALL MOUNT CATHETER CABINET

EXTERIOR DIM. (DOORS OPENED)			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
99"	70"	7.25	350 lbs	CC100



# MOBILE CATHETER CART



Strong steel fabrication and a durable polyester finish make the CC105 ideal for portable catheter storage. The CC105 stores up to 400-4" wide catheter packages on moveable, positionable hangers to gain maximum storage capacity for the package widths you choose. The lockable, roll-up top keeps catheters dust-free and secure, and the smooth-rolling heavy duty casters make this cart easy to maneuver in tight quarters. Cushioned handles and bumper guards provide added protection for both the catheter cart and its environment.

### MOBILE CATHETER CART

EXTERIOR DIM.			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
41"	51"	29.75	271 lbs	CC105



# MODULAR CATHETER CABINETS

# 755 - 18.5" DEEP #756 - 23" DEEP

## MOBILE MODULAR CATH CABINETS

# 755M - 18.5" DEEP

This protective hospital-grade cabinet has been optimized for the functional storage of catheters in cardiac cath labs, invasive radiology suites, and the operating room environment. Durable heavy gauge welded steel construction, the use of high quality ball-bearing drawer slides, and the efficiency of its modular design assure long-lasting, trouble-free use. Counterbalanced locking roll-top doors provide for catheter security, and create an ideal dust-free environment for storage.

The inside of the cabinet is customizable to meet the requirements of individual departments. The cabinet has the option of mounting vertical dividers, drawers, shelves, and hook-slides in multiple locations.

Catheters are stored on mobile hooks attached to an easy-gliding ball-bearing slide, which allows non-obstructed access to all catheters in the cabinet. Pulling the slide forward brings catheters stored in the back of the cabinet to the front for easy identification and retrieval. The cabinet facilitates vertical hanging of catheters in sterile packages up to 72" long. There are five hooks per slide in model 755 and 755M (the 18 1/2" deep cabinets), six hooks per slide in model 756 (the 23" deep cabinet), and each hook can accommodate up to 15 catheters (more depending on thickness). With multiple slides at different levels, cabinet capacity is maximized.

The large capacity drawers are steel-constructed, feature an integrated pull latch, and are mounted on full extension high quality ball-bearing drawer slides for extra-smooth motion when fully loaded. The 10 1/2" drawer depth is ideal for boxed catheters/wires, or other items awkward to hang. A variety of drawer widths are manufactured to fit the different cabinet configurations.

Shelves, available in different lengths, can be placed at intervals within the cabinet. Hook-slides can be attached to the underside of the shelf.

Vertical dividers can be incorporated to customize this cabinet to store both long and short catheters while efficiently maximizing useful storage space. These can be positioned to divide the cabinet into storage areas of 1/3 + 2/3, 1/2 + 1/2, or 1/3 + 1/3 + 1/3. These dividers are permanently bolted into place at the factory.

The counterbalanced rolling doors come down from the top and up from the bottom of the cabinet, to lock at a comfortable height. They retract into the cabinet for full access to all contents. Counterbalancing springs assure easy, trouble-free door motion.

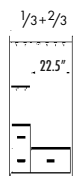
Model 755M mobile catheter cabinets are mounted on 3" heavy-duty casters and have padded rubber handles on both sides for easy movement.

Identification tags allow you to label each slide and drawer for quick and easy catheter retrieval.

Our customer service department will be happy to assist you in designing a cabinet to fit your needs.



CATHETER CABINETS

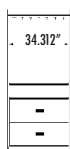


### DRAWERS for 755 or 755M

	INTERIOR DIM.			CATALOG NO.
	LENGTH	WIDTH	DEPTH	
1/3 Drawer	15.75"	9.625"	10.5"	755001
1/2 Drawer	15.75"	15.5"	10.5"	755002
2/3 Drawer	15.75"	21.5"	10.5"	755003
Full Drawer	15.75"	33.125"	10.5"	755004

### DRAWERS for 756

	INTERIOR DIM.			CATALOG NO.
	LENGTH	WIDTH	DEPTH	
1/3 Drawer	21.5"	9.625"	10.5"	756001
1/2 Drawer	21.5"	15.5"	10.5"	756002
2/3 Drawer	21.5"	21.5"	10.5"	756003
Full Drawer	21.5"	33.125"	10.5"	756004

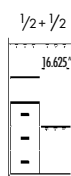


### SHELVES for 755 or 755M

	CATALOG NO.
1/3 Shelf	755005
1/2 Shelf	755006
2/3 Shelf	755007
Full Shelf	755008

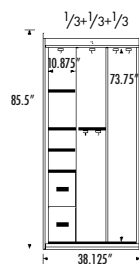
### SHELVES for 756

	CATALOG NO.
1/3 Shelf	756005
1/2 Shelf	756006
2/3 Shelf	756007
Full Shelf	756008



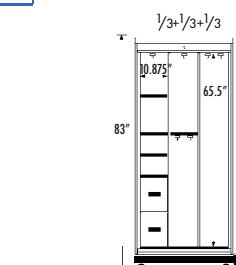
CATALOG NO.	EXTERIOR DIM.		
	HEIGHT	WIDTH	DEPTH
755	85.5"	38.125"	18.5"
756	85.5"	38.125"	23"
755M	83"	39.5"	24.75"

\*includes base with rubber bumper



### HOOK SLIDES

	CATALOG NO.
5 Hook for 755 & 755M (18.5" Deep)	755009
6 Hook for 756 (23" Deep)	756009



Model 755M Base w/rubber bumper: Width - 39.5 - Depth - 24.75

### VERTICAL DIVIDERS

	CATALOG NO.
for 755 & 755M (18.5" Deep)	755010
for 756 (23" Deep)	756010

# OPEN STEEL SHELVING



865C 48" Seven Compartment Five Shelf Unit

- CHOICE OF TWELVE SIZES
- RIGID ALL STEEL CONSTRUCTION
- CONVENIENT FOR ACTIVE AND INACTIVE FILES
- LOW COST

File x-ray envelopes the most convenient way - vertically - in units 18" deep, designed specifically to store 14"x17" film. Choose from 3, 4, 5 or 6 shelf high units. Each shelf has a back stop to retain the envelopes, vertical dividers to subdivide filing compartments and two end fillers located at the inner edges of the corner posts to eliminate a filing trap common to ordinary shelving.

Shelves are constructed of 19 gauge steel formed and reinforced for extra strength. Corner posts are 12x1.25" gauge tough rail steel. The bottom shelf is 6" above the floor but can be shortened upon request at time of order. Units may be placed side by side or back to back, however each unit is a complete assembly in itself. No extra parts are required. All necessary hardware and braces are included. Units are shipped knocked down and are easy to assemble.

- 24" units have four dividers to create three compartments per shelf.
- 36" units have six dividers to create five compartments per shelf.
- 48" units have eight dividers to create seven compartments per shelf.

**Finish:** Battleship gray baked enamel (on cold rolled steel).

**\* Optional Items:**

- 865Q - Additional partitions - approx. ship wt. 3 lbs
- 865-11 - Closed bottoms - approx. ship wt. 22 lbs
- 861 - Index guides (see page E - 6) - approx. ship wt. 5 lbs

**OPEN STEEL SHELVING**

DEPTH : 18"	CAT NO	3 SHELF	APPROX	CAT NO	4 SHELF	APPROX	CAT NO	5 SHELF	APPROX	CAT NO	6 SHELF	APPROX
WIDTH		55" HIGH	SHIP WT		71" HIGH	SHIP WT		87" HIGH	SHIP WT		103" HIGH	SHIP WT
24" 3 Compartments	865J	90 lbs		865G	110 lbs		865A	130 lbs		865D	150 lbs	
36" 5 Compartments	865K	115 lbs		865H	140 lbs		865	175 lbs		865E	214 lbs	
48" 7 Compartments	865L	130 lbs		865I	160 lbs		865C	205 lbs		865F	250 lbs	

Backs and sides are available to provide full enclosure of the open steel shelving. (Please note: There is an additional packing charge for the backs and sides.

**BACKS AND SIDES**

BACKS	CAT NO	3 SHELF	APPROX	CAT NO	4 SHELF	APPROX	CAT NO	5 SHELF	APPROX	CAT NO	6 SHELF	APPROX
WIDTH		55" HIGH	SHIP WT		71" HIGH	SHIP WT		87" HIGH	SHIP WT		103" HIGH	SHIP WT
24" 3 Compartments	865-23	12 lbs		865-29	20 lbs		865-20	20 lbs		865-26	25 lbs	
36" 5 Compartments	865-24	20 lbs		865-30	25 lbs		865-21	30 lbs		865-27	35 lbs	
48" 7 Compartments	865-25	25 lbs		865-31	30 lbs		865-22	40 lbs		865-28	30 lbs	
SIDES	865-42	15 lbs		865-43	15 lbs		865-40	20 lbs		865-41	20 lbs	



865C Unit with 865-22 Back and 865-40 Sides

- ALL STEEL WELDED REINFORCED CONSTRUCTION**
- ADJUSTABLE PARTITIONS**
- STACKABLE**
- SLIDING DOOR CLOSURE**
- AVAILABLE WITH LOCKS**

Vertifile cabinets are constructed of heavy gauge cold rolled steel. Each shelf section is reinforced. The inner and outer walls of the sides are welded together for additional strength. The specially designed inner wall eliminates the possibility of a film corner trap. Doors slide smoothly in steel tracks.

Three heavy duty partitions are provided for each shelf. Partitions can be installed in any of eleven positions on each shelf without the need for tools. Choose from 1, 2, 3 or 5 shelf models designed for storing 14"x17" film. Locking doors are also available.

Inside dimensions of each shelf: 18<sup>3</sup>/<sub>8</sub>" deep and 15<sup>3</sup>/<sub>8</sub>" high.

**Finish:** Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

856 - Additional partitions - approx. ship wt. 4 lbs

857 - 5" floor base - approx. ship wt. 15 lbs

861 - Index guides (see page E - 6) - approx. ship wt. 5 lbs



853 Three shelf Vertifile with doors



852 Two shelf Vertifile with doors



855 Five shelf Vertifile with doors



851 One shelf Vertifile with doors

**VERTIFILES**

DEPTH : 19.75" NO. OF SHELVES	CAT NO WITH DOORS	APPROX SHIP WT	CAT NO WITHOUT DOORS	APPROX SHIP WT	CAT NO W/LOCKS & DOORS	APPROX SHIP WT	EXTERIOR DIM	
							WIDTH	HEIGHT
1	851	60 lbs	851D	54 lbs	851L	60 lbs	29"	17.25"
2	852	110 lbs	852D	98 lbs	852L	110 lbs	29"	33.5"
3	853	163 lbs	853D	147 lbs	853L	163 lbs	29"	49.75"
5	855	285 lbs	855D	240 lbs	855L	285 lbs	29"	82.25"

## ECONOMY OPEN SHELF VERTIFILE



- LOWER COST, CONVENIENT**
- DOUBLE WALL FLUSH DESIGN**
- STACKABLE**
- ALL STEEL CONSTRUCTION**

This open shelf Vertifile can be stacked one upon the other as well as side by side and back to back. Each section is shipped complete and set up. No assembly is required. Four screws through matching holes in tops and bottoms of all cabinets secure the units together after stacking. Partitions are fixed and not adjustable.

Inside dimensions of each shelf: 19<sup>1</sup>/<sub>2</sub>" deep and 16<sup>1</sup>/<sub>16</sub>" high. Approximate distance between partitions: 7<sup>1</sup>/<sub>4</sub>"

**Finish:** Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

857 - 5" floor base - approx. ship wt. 15 lbs

861 - Index guides (see page E - 6) - approx. ship wt. 5 lbs

*ECONOMY OPEN SHELF VERTIFILE*

EXTERIOR DIM			APPROX SHIP WT	CATALOG NO
WIDTH	DEPTH	HEIGHT		
29"	19.75"	17.25"	48 lbs	84I

## FIXED PARTITION VERTIFILES



Models 851S and 851SD Vertifile cabinets are constructed of heavy gauge cold rolled steel. The inner and outer walls of the sides are welded together for additional strength. The specially designed inner wall eliminates the possibility of a film corner trap. Doors slide smoothly in steel tracks. The partitions are fixed and are not adjustable. Single units can be stacked one upon the other.

Inside dimensions of each shelf: 18<sup>7</sup>/<sub>8</sub>" deep and 16<sup>1</sup>/<sub>8</sub>" high. Approximate distance between partitions: 6<sup>3</sup>/<sub>4</sub>"

**Finish:** Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

857 - 5" floor base - approx. ship wt. 15 lbs

861 - Index guides (see page E - 6) - approx. ship wt. 5 lbs

*FIXED PARTITION VERTIFILES*

	EXTERIOR DIM			APPROX SHIP WT	CATALOG NO
	WIDTH	DEPTH	HEIGHT		
With Doors	29"	19.75"	17.25"	54 lbs	851S
Without Doors	29"	19.75"	17.25"	44 lbs	851SD



## LETTER SIZE VERTIFILE

- IDEAL FOR 18 X 24 CM MAMMOGRAPHY FILM STORAGE
- CHOICE OF THREE SIZES
- ADJUSTABLE PARTITIONS
- SLIDING DOOR CLOSURE
- ALL STEEL WELDED REINFORCED CONSTRUCTION

The letter size Vertifile will double the capacity of any filing area over that obtained using conventional drawer files. Filing is simpler, faster and more economical. Safer to use, these files can be loaded to suit the filing system, files will never tip over. Anyone who has had the experience of using Vertifiles for X-Rays will appreciate its great advantages for small format 18x24cm mammography film, letters, records files and 8 x 10 film. Two doors and three adjustable partitions are furnished for each shelf.

Inside dimensions of each shelf: 28<sup>1</sup>/<sub>4</sub>" wide, 12<sup>3</sup>/<sub>4</sub>" deep and 9<sup>3</sup>/<sub>4</sub>" high.

**Finish:**Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

- 859 - Additional partitions - approx. ship wt. 3 lbs
- 860 - 5" floor base - approx. ship wt. 15 lbs

**LETTER SIZE VERTIFILES**

	EXTERIOR DIM			APPROX SHIP WT	CATALOG NO	
	WIDTH	DEPTH	HEIGHT		DOORS	NO DOORS
3 Shelf	30"	14"	33.25"	101 lbs	858B	858BD
5 Shelf	30"	14"	54.75"	160 lbs	858A	858AD
8 Shelf	30"	14"	87"	250 lbs	858	858D



## EXTRA WIDE ONE SHELF VERTIFILE

- WIDER - MORE FILM STORAGE
- ALL STEEL WELDED CONSTRUCTION
- STACKABLE
- ADJUSTABLE PARTITIONS
- SLIDING DOOR CLOSURE

This special wider Vertifile comes complete with three partitions and two doors. Two pairs of interlocking clips in the rear of the cabinet allows stacking of units.

Inside dimensions of each shelf: 18<sup>3</sup>/<sub>16</sub>" deep and 15<sup>1</sup>/<sub>2</sub>" high.

**Finish:**Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

- 862 - Additional partitions - approx. ship wt. 4 lbs
- 857A - 5" floor base - approx. ship wt. 15 lbs
- 861 - Index guides (see page E - 6) - approx. ship wt. 5 lbs

**FIXED PARTITION VERTIFILES**

	EXTERIOR DIM			APPROX SHIP WT	CATALOG NO
	WIDTH	DEPTH	HEIGHT		
With Doors	31.375"	19.375"	17.875"	65 lbs	850
Without Doors	31.375"	19.375"	17.875"	59 lbs	850D



# SMALL SIZE VERTIFILE



## A SMALL SIZE VERTIFILE CUSTOM DESIGNED TO ACCOMMODATE MAMMOGRAPHS

- IDEAL FOR 24 X 30 CM or 18 X 24 CM FILM STORAGE
- CHOICE OF THREE SIZES
- ADJUSTABLE PARTITIONS
- SLIDING DOOR CLOSURE
- AVAILABLE WITH LOCKS
- ALL STEEL WELDED REINFORCED CONSTRUCTION

Especially designed to accommodate mammographs, this vertifile will double the capacity of any filing area over that obtained using conventional drawer files. Filing is simpler, faster, more economical and safer. Stability and resistance to tipping is designed into this cabinet. Two doors and three adjustable partitions are furnished for each shelf. Inside dimensions of each shelf: 28.25 wide, 12.875 deep and 11.25 high.

**Finish:** Light gray baked enamel (on cold rolled steel).

**\* Optional Items:**

- 859A - Additional partitions - approx. ship wt. 3 lbs
- 860 - 5" floor base - approx. ship wt. 15 lbs

**SMALL SIZE VERTIFILES**

DEPTH : 14" NO. OF SHELVES	CAT NO WITH DOORS		CAT NO WITHOUT DOORS		CAT NO W/LOCKS & DOORS		EXTERIOR DIM	
	APPROX SHIP WT		APPROX SHIP WT		APPROX SHIP WT		WIDTH	HEIGHT
1	871	35 lbs	871D	30 lbs	871L	32 lbs	30"	13.25"
3	873	95 lbs	873D	90 lbs	873L	95 lbs	30"	37.75"
6	876	190 lbs	876D	175 lbs	876L	190 lbs	30"	74.5"

Designed specifically to fit all our Open Steel Shelving and Vertifiles (except Letter Size and Small Vertifiles), these index guides are the final touch to filing ease.

Sold in sets of 25 only.

### INDEX GUIDES

	APPROX SHIP WT	CATALOG NO
Set of 25	5 lbs	861



## X-RAY FILING ENVELOPES

- BLANK OR IMPRINTED
- OPENING ON SHORT DIMENSION
- EXPANSION TYPE AVAILABLE
- CUSTOM IMPRINTING AVAILABLE

### X-RAY FILING ENVELOPES

FILM SIZE	DESCRIPTION	ENV.	QTY.	APPROX	CATALOG
		KRAFT WT	PER CTN	SHIP WT	NO
4.5"x10"	Blank	28 Lb Gold	1000	20 lbs	B33
4.5"x17"	Blank	32 Lb Gold	1000	33 lbs	B14
5"x7"	Standard Imprint	28 Lb Gold	2000	27 lbs	S2
7"x17"	Standard Imprint	32 Lb Gold	1000	53 lbs	S3
7"x17"	Blank	32 Lb Gold	1000	53 lbs	B17
8"x10"	Standard Imprint	28 Lb Gold	1000	31 lbs	S4
10"x12"	Standard Imprint	28 Lb Gold	1000	44 lbs	S5
11"x14"	Standard Imprint	28 Lb Gold	500	27 lbs	S18
14"x17"	Standard Imprint	28 Lb Gold	500	43 lbs	S13
14"x17"	Standard Imprint	32 Lb Gold	500	50 lbs	S6
14"x17"	Blank	32 Lb Gold	500	50 lbs	B21
14"x17"	Standard Imprint	32 Lb Red	500	50 lbs	S15
14"x17"	Standard Imprint	32 Lb Green	500	50 lbs	S16
14"x17"	Standard Imprint	32 Lb Grey	500	50 lbs	S17
14"x17"x1"	<b>Expansion Envelope</b>	40 Lb Gold	100	15 lbs	S14



Envelopes are quality gold kraft, unless otherwise noted. Catalog numbers with "S" have standard imprint. Catalog numbers with "B" are blank - unprinted. Custom imprinting is available with a minimum order of 25,000 of the same envelope (not an assortment of envelopes).

*All envelopes are supplied in carton lots only.*

## X-RAY MAILING ENVELOPES

Envelopes are quality 32 lb. gold kraft.  
*All envelopes are supplied in carton lots only.*

### X-RAY MAILING ENVELOPES

FILM SIZE	DESCRIPTION	ENV.	QTY.	APPROX	CATALOG
		KRAFT WT	PER CTN	SHIP WT	NO
10"x12"	String / with Cardboard	32 Lb Gold	50	8 lbs	S7
14"x17"	String / with Cardboard	32 Lb Gold	50	17 lbs	S11



# DELUXE PROTECTOPANELS®



## CUSTOM BUILT

ALL STEEL AND LEAD CONSTRUCTION

CUSTOM SIZE PANELS

INTERNALLY REINFORCED

CHOICE OF WINDOW SIZES

Deluxe Protectopanel® complement the finest X-Ray room furnishings and equipment. Installation is simple, clean and fast. Upon request components can be finished in primer paint only for on the job color matching. Panels are non-stock, custom built to suit each individual size requirement.

Panels are heavy gauge steel internally reinforced and sound insulated. A lead liner of 1/16" (1.55mm) minimum thickness is centered and rigidly supported between the steel bracing forming a 2" thick wall. Deluxe panels are 84" high.

A lead glass window can be factory installed in any panel of 18" or wider. Unless otherwise requested the center height of the window will be 60". Optional lead glass windows have a lead equivalency of 1.7mm.

Our engineers, aided by your drawing and specifications, will provide you with a custom designed protection barrier to accentuate the appearance and functionality of your radiology suite.

The standard panels listed below are pricing guides, for cost estimation purposes. Prices will be based on the next size up panel if an in-between size is needed.

**Finish:** Light gray baked enamel, or if requested, primer paint only, for you to custom finish on the job.

## TO ORDER:

**Provide a rough floor plan** sketch including overall size, angles, location of windows and any other special requirement.

Panels are 2" thick - be sure to specify whether sizes were measured on the outside or the inside of the booth. *We will assume that outside measurements are used unless otherwise specified.*

Custom-made Deluxe Protectopanel are non-returnable.

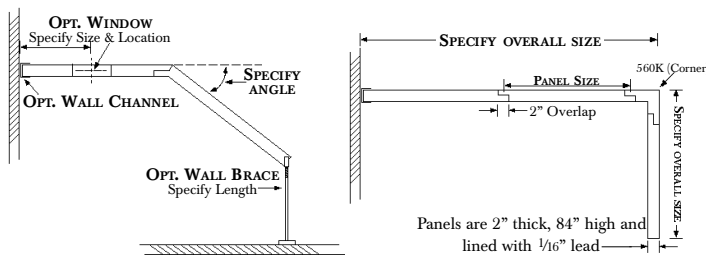
For estimating costs: add up components from the list below (use next larger size standard panel(s) for estimate.)

## DELUXE PROTECTOPANELS®

DESCRIPTION	APPROX SHIP WT	CATALOG NO
6"x84" Deluxe Standard Panel	50 lbs	560P
12"x84" Deluxe Standard Panel	100 lbs	560A
18"x84" Deluxe Standard Panel	150 lbs	560B
24"x84" Deluxe Standard Panel	200 lbs	560C
30"x84" Deluxe Standard Panel	250 lbs	560D
36"x84" Deluxe Standard Panel	300 lbs	560J
Corner (any angle) Built into Panel		560K
10"x12" Lead Glass Window (installed)		560G
13"x17" Lead Glass Window (installed)		560R
12"x16" Lead Glass Window (installed)		560S
24"x36" Lead Glass Window (installed)		560T
16"x20" Lead Glass Window (installed)		560U
12"x12" Lead Glass Window (installed)		560V
Wall Channel (Unleaded)	10 lbs	560H
Wall Channel (Leaded)	15 lbs	560M
Wall Brace (Specify Length)	10 lbs	560L



Sample Construction Detail



Panel size is measured to the center of the overlap or finished end (on outside of booth).

**PROVIDE A FLOOR PLAN WITH YOUR ORDER**

RADIATION PROTECTION

- RIBBED CONSTRUCTION**
- DESIGN VERSATILITY**
- ECONOMICAL**
- ALL STEEL AND LEAD CONSTRUCTION**
- CHOICE OF WINDOW SIZES**

Extremely versatile design makes it possible to adapt these panels for use in virtually every X-Ray installation. These exclusive S&S Ribbed Protectopanel® offer maximum economy. The unique designs of the panels and couplings are protected by U.S. Patents.

Joints and corners are quickly made with the patented overlapping double leaded "H" connectors. Installation is easy; after the floor channels and optional wall brace (559L) are set in place the panels and couplings are inserted and the entire assembly is enclosed by the top channel. Only the floor and top channels are custom made for the job.

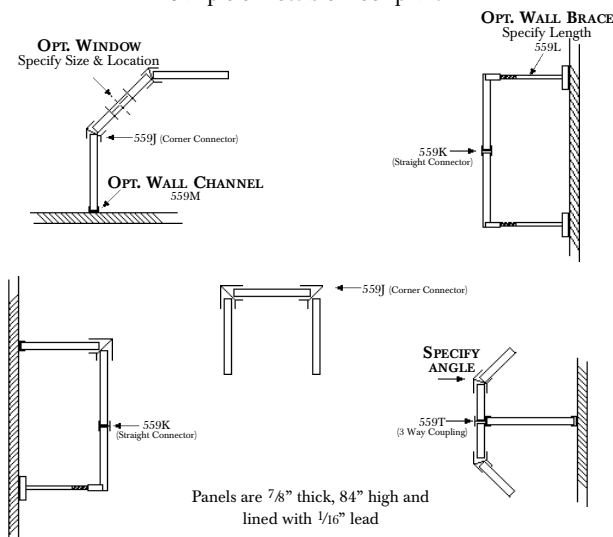
Panels are available in five different widths all 84" tall, 7/8" thick. An optional 8"x10" or 10"x12" lead glass window (1.7mm lead equivalency) is available for panels 24" or wider. The window is centered in the panel with its center 60" above the floor. A lead liner of 1/16" (1.55mm) minimum thickness is centered between the two steel walls of our unique ribbed design for strength and rigidity.

**Finish:** Light gray baked enamel

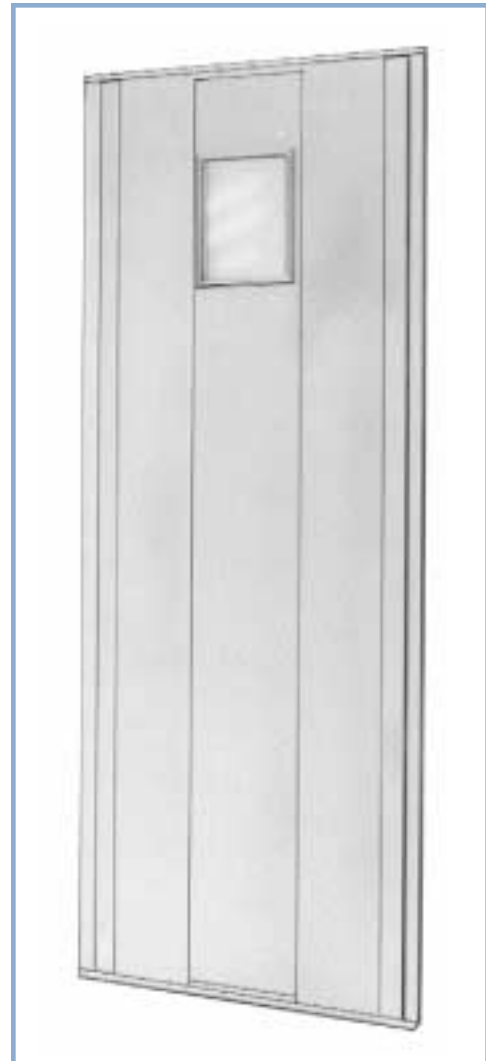
### TO ORDER:

**Provide a rough floor plan** sketch including overall layout, location of optional window if desired, angles and sizes of panels and attach to order. *We will assume that outside measurements are used unless otherwise specified.*

Sample of Possible Floor plans



**PROVIDE A FLOOR PLAN WITH YOUR ORDER**



### RIBBED PROTECTOPANELS®

DESCRIPTION	APPROX SHIP WT	CATALOG NO
12"x84" Ribbed Protectopanel®	75 lbs	559E
18"x84" Ribbed Protectopanel®	100 lbs	559A
24"x84" Ribbed Protectopanel®	130 lbs	559B
30"x84" Ribbed Protectopanel®	180 lbs	559C
36"x84" Ribbed Protectopanel®	205 lbs	559D
8"x10" Window (installed) - in panel 24" or wider		559G
10"x12" Window (installed) - in panel 30" or 36"		560G
Corner Connector (specify 30°, 45°, 60° or 90°)	20 lbs	559J
Straight Connector	20 lbs	559K
Wall Brace (Specify Length)	10 lbs	559L
Floor to Ceiling Support	10 lbs	559LA
Wall Channel for Ribbed Protectopanel®	10 lbs	559M
2" Leaded Wall Channel	15 lbs	559ML
3 Way "T" Coupling	20 lbs	559T

## RIBBED READY MADE BOOTH



**RIBBED CONSTRUCTION** for strength and rigidity

**BUILT IN WINDOW**

**CHOICE OF LEFT OR RIGHT WING**

**ALL STEEL, LEAD LINED**

**CHOICE OF SIZES**

Specially designed to provide a complete control booth at an economical price, this unit includes a main panel (available in three different widths all 84" tall, and 7/8" thick) with a built in 8"x10" or 10"x12" lead glass window (1.7mm, minimum, lead equivalency), a 7" lead wing set at a 45° angle, a top channel with provision for mounting to a wall and a bottom channel.

The window is centered in the panel with its center 60" above the floor. A lead liner of 1/16" (1.55mm) minimum thickness is centered between the two steel walls of our unique ribbed design. *When ordering please specify left or right wing. Position of wing is determined from the inside of the booth.*

**Finish:** Light gray baked enamel

<b>READY MADE BOOTH</b>		<b>APPROX SHIP WT</b>	<b>CATALOG NO</b>
24" Panel	8"x10"Window	185 lbs	557A
30" Panel	8"x10"Window	235 lbs	557B
36" Panel	8"x10"Window	360 lbs	557C
36" Panel	10"x12"Window	365 lbs	557C10

## RIBBED MOBILE DOUBLE WING SCREEN



**INCREASED PROTECTION WITH WRAP AROUND DESIGN**

**HEAVY DUTY BALL BEARING CASTERS**

**ALL STEEL, LEAD LINED RIBBED CONSTRUCTION**

**BUILT IN 8" x 10" LEAD GLASS WINDOW**

**CHOICE OF HEIGHTS**

Wrap around protection is provided by two 7" wings mounted on each side of a ribbed center panel and mounted on heavy duty ball bearing casters.

The 8"x10" built in lead glass window\* (1.7mm, minimum, lead equivalency) is centered in the panel with its center 60" above the floor. A lead liner of 1/16" (1.55mm) minimum thickness is centered between the two steel walls of our unique ribbed design for strength and rigidity.

\* A built in 10"x12" lead glass window is available on special order. Consult factory for details.

**Finish:** Light gray baked enamel

### **MOBILE DOUBLE WING SCREEN**

<b>HEIGHT</b>	<b>PANEL WIDTH</b>	<b>OVERALL WIDTH</b>	<b>APPROX SHIP WT</b>	<b>CATALOG NO</b>
72"	24"	38"	175 lbs	554WA
72"	30"	44"	200 lbs	554WB
72"	36"	50"	225 lbs	554WBC
84"	24"	38"	245 lbs	554WTA
84"	30"	44"	260 lbs	554WTB
84"	36"	50"	285 lbs	554WTC

# RIBBED PROTECTIVE SCREENS

## MOBILE, STATIONARY OR HINGED

**RIBBED CONSTRUCTION** for strength and rigidity

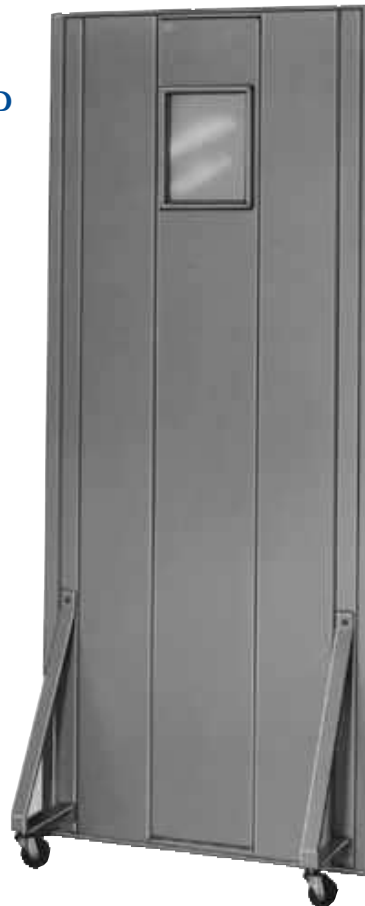
**BUILT IN LEAD GLASS WINDOW**

**ALL STEEL, LEAD LINED**

**CHOICE OF SIZES**



All of the screens below are constructed of our unique ribbed design for strength and rigidity. A lead liner of 1/16" (1.55mm) minimum thickness is centered between two steel walls for a total thickness of 7/8". Each screen has a built in 8"x10" or 10"x12" lead glass window (1.7mm. minimum, lead equivalency). The window is centered in the panel with its center 60" above the floor.



**Mobile:** Stability and ease of movement are assured by the 3/16" thick steel legs, with ball bearing casters.

**Deluxe Mobile:** Same as above but with window trim and all outer edge trim finished in polished stainless steel.

**Stationary:** For use in a fixed position. Screens are supplied with a bottom channel for fastening to the floor and a top channel with a wall mounting bracket set at 90° (unless otherwise specified).

**Hinged:** A unique pivot design allows the screen to swing aside when not in use. A ball bearing pivot assembly is built into the top and bottom of the screen. A 16" wall bracket retains the top pivot. The bottom pivot is fastened directly to the floor.

**Finish:** Light gray baked enamel

### RIBBED PROTECTIVE SCREENS

SCREEN SIZE	WINDOW SIZE	APPROX SHIP WT	CATALOG NUMBERS			
			MOBILE	DELUXE	STATIONARY	HINGED
24"x72"	8"x10"	115 lbs	554N	555N	554NS	554NH
30"x72"	8"x10"	140 lbs	554	555	554S	554H
36"x72"	8"x10"	185 lbs	554A	555A	554AS	554AH
24"x84"	8"x10"	130 lbs	554G	555G	554GS	554GH
30"x84"	8"x10"	190 lbs	554B	555B	554BS	554BH
36"x84"	8"x10"	210 lbs	554J	555J	554JS	554JH
36"x72"	10"x12"	190 lbs	554A10	555A10	554AS10	554AH10
30"x84"	10"x12"	195 lbs	554B10	555B10	554BS10	554BH10
36"x84"	10"x12"	215 lbs	554J10	555J10	554JS10	554JH10

# CLEAR-Pb® LEAD-PLASTIC MODULAR RADIATION BARRIERS



- UNPARALLELED, DISTORTION - FREE VISIBILITY
- MODULAR BARRIER COMPONENTS - SIMPLE, QUICK, ON-SITE INSTALLATION
- CHOICE OF LEAD EQUIVALENCY (0.3 TO 2.0 mm)
- ATTRACTIVE, SPACE-SAVING, DECORATOR LOOK
- SHATTER RESISTANCE
- WALLS ONLY 1.5" THICK
- IDEAL FOR SMALL OR LARGE FACILITIES

The versatility of Clear-Pb allows you to create panoramic viewing areas that comfort the patient and provide personnel with a clear, unobstructed view of the patient and the equipment. Made from a unique, transparent plastic that contains 30% lead by weight, it is rugged and shatter-resistant, an innovative combination of attractive, modern shielding and effective radiation protection.

Clear-Pb Lead-Plastic Modular Barriers are available in lead-equivalencies from 0.3 to 2.0mm and are fabricated from large, continuous panels up to 6' x 8' (larger sizes are available on special order). They can be easily changed, rearranged, added to or taken away from.

Enhance the appearance of an X-Ray, CT or special procedures room with these "decorator look" competitively-priced modules that are easy to handle for fast, on-site assembly and installation.

**Our Clear-Pb product specialist can assist you with ideas, recommendations, floor plans, room layouts and prices.**



## CLEAR-Pb® MOBILE SCREENS



Smooth rolling Mobile Barriers combine unrestricted, distortion-free visibility and easy mobility in an attractive, effective radiation protection shield. Barriers are available in a variety of sizes for shielding one, two or more people. Consult factory for pricing.

### MOBILE BARRIER SPECIFICATIONS

MODEL	OVERALL SIZE	WINDOW PANEL	LEAD EQUIV	OPAQUE PANEL	LEAD EQUIV	APPROX SHIP WT	CATALOG NO
Regular	72"Hx30"W	24"Hx30"W	0.5mm	48"Hx30"W	.08mm	142 lbs	SS56-603
Jumbo	75"Hx30"W	60"Hx30"W	0.5mm	12"Hx30"W	-	113 lbs	SS56-604
Deluxe	74"Hx48"W	36"Hx48"W	0.5mm	36"Hx48"W	.08mm	230 lbs	SS56-616
Deluxe	74"Hx48"W	36"Hx48"W	1.0mm	36"Hx48"W	1.5mm	312 lbs	SS56-617
Ultra	74"Hx72"W	36"Hx72"W	0.5mm	36"Hx72"W	0.8mm	334 lbs	SS56-618
Ultra	74"Hx72"W	36"Hx72"W	1.0mm	36"Hx72"W	1.5mm	409 lbs	SS56-619
Nuclear Medicine	58"Hx36"W	24"Hx36"W	.8mm	34"Hx36"W	1.5mm	170 lbs	SS56-602

## HALF FILM BLOCKERS

Blockers are made from .125" thick lead vinyl material which has a lead equivalent of 1.0mm. Available in sizes to block one half of a cassette front so that two exposures can be made on a single sheet of film.

### HALF FILM BLOCKER

WIDTH	HGT	APPROX. SHIP WT	CATALOG NO.
4"	10"	5 lbs	139L
5"	12"	5 lbs	140L
5.5"	14"	6 lbs	141L
7"	17"	7 lbs	142L
5"	8"	5 lbs	139C
6"	10"	5 lbs	140C
7"	11"	6 lbs	141C
8.5"	14"	8 lbs	142C





# RADIATION PROTECTIVE EYEWEAR

FOR USE BY:

EYE PROTECTION FROM SCATTER RADIATION

CATHETERIZATION LAB ELECTROPHYSIOLOGY ENDOSCOPY RADIOLOGY  
UROLOGIC PROCEDURES ORTHOPEDIC SURGERY VETERINARIANS



This radiation protective eyewear can effectively eliminate approximately 90% of scatter radiation danger to the eye. These high quality contemporary frames offer the best protection available while being lightweight and comfortable.

Choose a variety of styles designed to reduce the chance of radiation induced injury, while being comfortable enough to make wearing them a pleasure. Select from the variety of side shield styles for maximum protection and safety.

The lenses meet or exceed the standards for optical clarity, visible light transmission, power and prism correction.

All lenses are made from Schott RS-520 (SF-6) leaded glass - the industry standard for radiation shielding glass.

For a full brochure of all glasses offered please contact factory.

## APRON AND GLOVE RACKS

Protect lead lined gloves and x-ray protective aprons from damage by using these sturdy heavy duty metal apron and glove racks.

The apron is stored on the gracefully curved front bar which is designed to eliminate the danger of cracking or tearing the apron.

Gloves are stored on steel vertical supports with phenolic balls that holds them in an upright open position to facilitate ventilation and prevent cracking of the lead material.

**Finish:** light gray baked enamel.



- 547 - Large Apron and Glove Rack Holds 4 Gloves and 2 aprons approx. shipping Wt. - 20 lbs.
- 548 - Apron and Glove Rack Holds 2 Gloves and 1 aprons approx. shipping Wt. - 7 lbs.

WIDTH	HGT	DEPTH	CAT. NO
27"	2"	9"	548
27"	13.5"	10.75"	547

## TUF-GUARD PROTECTIVE APRONS AND SHIELDS

TESTED CERTIFIED PROTECTION REGISTERED

DURABLE CHOICE OF STYLES

S&S Tuf-Guard products consist of multilayers of lead vinyl enclosed in an outer covering of a special formulated PVC plastic, reinforced with a high strength nylon cloth. Outer edges are bound with a strong woven cotton webbing. Each roll of lead vinyl that is used in the manufacture of Tuf-Guard is tested and certified for its protective value. Tuf-Guard products are tear resistant, stain resistant, water resistant and flame resistant.

Each S&S Tuf-Guard product is designed and cut to provide ease of movement and even weight distribution. Every Tuf-Guard protective product is recorded by its own individual serial number.

Aprons are custom tailored with a choice of styles and sizes. Choice of lead protection is also available. All aprons are supplied with a breast pocket to hold pens, glasses, etc. Built in to the front of the pocket is a clear plastic name holder which allows insertion of the users name.



### TUF-GUARD APRONS

VELCRO CLOSURE	LEAD	APPROX	CATALOG	
SIZE	DIMENSIONS	EQUIV	SHIP WT	NO
Petite	20"x32"	.5mm	9 lbs	330010
Standard	24"x38"	.5mm	10 lbs	330020
Long	24"x42"	.5mm	11 lbs	330030
Petite	20"x32"	.25mm	7 lbs	330050
Standard	24"x38"	.25mm	8 lbs	330060
Long	24"x42"	.25mm	9 lbs	330070
TIE STRAP CLOSURE				
Petite	20"x32"	.5mm	9 lbs	330110
Standard	24"x38"	.5mm	10 lbs	330120
Long	24"x42"	.5mm	11 lbs	330130
Petite	20"x32"	.25mm	7 lbs	330210
Standard	24"x38"	.25mm	8 lbs	330220
Long	24"x42"	.25mm	9 lbs	330230

### TUF-GUARD PROTECTIVE SHIELDS

TYPE	DIM.	LEAD	APPROX	CATALOG
		EQUIV	SHIP WT	NO
Half Apron	24"x30"	.5mm	8 lbs	330300
Gonad	9"x9"x9"	.5mm	5 lbs	330310
Diaper	14"x20"	.5mm	5 lbs	330320
Thyroid	23"Long	.5mm	4 lbs	330330

ALL APRONS ARE NON-RETURNABLE

RADIATION PROTECTION

# FILM LOADING BINS

- ALL STEEL CONSTRUCTION / WELDED SEAMS AND CORNERS
- DOUBLE STEEL LIGHT TRAP
- FULL WIDTH STAINLESS STEEL DOOR HINGE
- SIZES AND TYPES TO MEET MOST REQUIREMENTS



These loading bins eliminate the problem of fogging film due to improper storage. A deep double steel light trap around the door gives maximum protection and assures film safety. Bins have a stainless steel full width hinge to insure trouble free action. All corners and seams are welded for strength, guaranteeing no light leakage that can fog film.

The interior of the hinged bin is divided into five or six compartments, each capable of holding up to 14"x17" films. Each bin comes with inserts to accommodate smaller film sizes and can be arranged to suit any film assortment.

With the optional built in light limit switch **127R** installed in a film loading bin and wired to the room lighting, the lights will automatically be turned off whenever the loading bin is opened.

The **125X Film Loading Bin** was designed for areas where space is limited, measuring only 18.375" wide.

The **129 Film Loading Bin** is lined with .031" lead.

Choose the Film Loading Bin most appropriate to your needs and design a darkroom by selecting any combination of cabinets from either the 15" Compact Darkroom Bench Cabinets (see page G-9) or the Heavy Duty 21.5" Deluxe Darkroom Bench Cabinets (see page G-7). See chart below for the proper base to use with the 21.5" bench cabinet.

**Bases add 3.5" to the height of a bin, tops add 1", and top and base add 4.5" to the total height of a bin.**

**Finish:** All Bins and Bases: Standard finish - light gray baked enamel. Formica tops are white.

\* **Optional Items:** Room Light Control **127R**

### FILM LOADING BINS

NO. OF COMPART.	EXTERIOR DIM			APPROX. SHIP WT	LOADING BIN	CATALOG NUMBERS				
	WIDTH	HGT	DEPTH			BIN W/15" DEEP BASE	BIN W/15" DEEP TOP	BIN W/TOP & BASE	BIN W/BASE TO MATCH TO 21.5"CAB	
5	22.5"	33"	15"	90 lbs	125	125B	126	126B	125 & 68R	
6	22.5"	33"	15"	90 lbs	125K	125KB	125KT	125KTB	125K & 68R	
5	18.375"	33"	12.5"	75 lbs	125X	125XB	125XT	125XTB	125X & 68RX	
<b>.031" LEAD LINED</b>										
5	22.5"	33"	15"	130 lbs	129	129B	129T	129BT	129 & 68R	

# TABLE TOP FILM LOADING BINS



ALL STEEL CONSTRUCTION / WELDED SEAMS AND CORNERS

SMALL AND COMPACT

IDEAL FOR MAMMOGRAPHY Model# 128 holds 24x30cm and smaller  
Model# 128A holds 14"x17" and smaller

FULL WIDTH BLACK ENAMEL DOOR HINGE

BUILT TO LAST

These small, space saving counter top Film Loading Bins are ideal for any darkroom. The level top can be used as an alternate work surface to minimize loss of counter space. The **128** is designed specifically to hold 24x30cm and 18x24cm (or smaller) films making it a must for the mammography darkroom. The **128A** holds 14"x17" (or smaller) film and will complement any darkroom where space is limited. A deep double steel light trap around the door gives maximum protection and assures film safety. All corners and seams are welded for strength guaranteeing no light leakage that can fog film. The door has a full width hinge to insure trouble free action for the life of the cabinet.

The interior of the **128** is divided into two compartments by a welded shelf and is finished in black baked enamel. Each compartment holds up to two full boxes of film. The interior of the **128A** has five compartments (each capable of holding one box of 14"x17" film).

An optional built in light limit switch is available for either the 128 or the 128A. With the **127A** Light Limit Switch installed in the Film Loading Bin and wired to the room lighting, the lights will automatically be turned off whenever the bin is opened.

### TABLE TOP FILM LOADING BINS

NO. OF COMPART.	EXTERIOR DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH		
2	13"	10.75"	15"	25 lbs	128
5	17.5"	13.25"	20.75"	40 lbs	128A

**Finish:** Black baked enamel.

\* **Optional Items:** Room Light Control **127A**

# FILM IDENTIFICATION PRINTERS AND CARDS

AUTOMATIC or MANUAL MODELS  
TABLE TOP or RECESSED MODELS  
CLEAR, SHARP IDENTIFICATION

## AUTOMATIC I.D. PRINTERS

The automatic timing circuit and capacitor discharge system built into the Automatic I.D. Printer consistently provides sharp, clear patient data on every X-Ray film. The printer is constructed of a heavy duty all steel body, a Stainless Steel door with a foam rubber contact pad and a Stainless Steel face plate with guide rails for perfect positioning. Stainless Steel parts are polished to a satin finish, steel parts are finished in light gray baked enamel. Recessed model has a baked enamel flange for recessing into a counter top.

**AUTOMATIC I.D. PRINTERS OPERATE ON 118 volts 60HZ AC.** Other voltages available on special order.

### AUTOMATIC I.D. PRINTER

DESCRIPTION	EXTERIOR DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	LENGTH	DEPTH		
Table Top	8"	8"	2.5"	5 lbs	144
Recessed	10"	10"	2.5"	6 lbs	144X



## MANUAL I.D. PRINTERS

Exposure in these models is not automatically timed. The duration of the exposure is determined by the amount of time the printer door is held in the down position. The printer is constructed of a heavy duty all steel body, a Stainless Steel door with a foam rubber contact pad and a Stainless Steel face plate with guide rails for perfect positioning. Stainless Steel parts are polished to a satin finish, steel parts are finished in light gray baked enamel. Recessed model has a baked enamel flange for recessing into a counter top.

### MANUAL I.D. PRINTER

DESCRIPTION	EXTERIOR DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	LENGTH	DEPTH		
Table Top	8"	8"	2.5"	5 lbs	143
Recessed	10"	10"	2.5"	6 lbs	143X

Custom personalized imprint

<b>J. Smith M.D.</b>	
100 Park Ave. New York, N.Y. 10010	
Patient	
No.	Date
Exam.	

143C  
Identification Card

Name		
No.	Date	
Name		
Address		
Case No.		
Submitted for:	Radiographs	Fluoroscopy
Suspected Pathology:		
Reason to be searched:		
Dressings	may not be removed	Referred by _____ M.D.
		Radiologist _____ M.D.

## IDENTIFICATION CARDS

Available for use with the above printers are special 3" x 5" translucent cards which will assure clear, sharp transfer of information onto the X-Ray film. Cards are available with a standard imprint format or a custom personalized two line imprint.

**Identification cards** are available in multiples of 500 **only**. No partial carton orders.

**Custom personalized** imprints are available with a **minimum order of 1000** (for over 1000 order must be in multiples of 500). For personalized imprint a sample card or written order is required.

143C - Identification Cards, 500 per CTN

# CASSETTE TRANSFER CABINETS (PASS BOXES)



DOUBLE WALL WELDED SEAM CONSTRUCTION  
BUILT FOR LONG SERVICE  
18 & 20 GAUGE HEAVY DUTY STEEL

VOICE PASSAGE WITHOUT LIGHT LEAKAGE  
AVAILABLE WITH OR WITHOUT LEAD LINING  
REPLACEABLE INTERLOCK MECHANISM



Shown: 887A

The Pass Box (Cassette Transfer Cabinet) allows cassettes to be transferred to and from the darkroom without the worry of light or radiation entering. Extra heavy duty construction with double light and radiation traps, 2" x 3" hinges (welded to the doors) and welded metal reinforcing produce a superior cabinet designed to stand up to the abuse of a busy department.

These cabinets (except for the manual models) feature automatic interlocking doors. Opening one door automatically locks the opposite door. Exposed and unexposed compartments are independently controlled, permitting simultaneous use of both compartments from the opposite side. The interlock mechanism not only locks the door opposite the open door but also keeps the doors shut when both are closed. Optional Automatic Signal Lights (see below) light up to indicate the presence of cassettes within the cabinet.

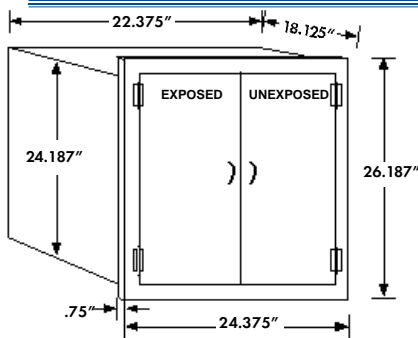
Cabinets are available with or without lead lining. Lead liner (1/16" or 1/8" thick) is completely wrapped around the cassette compartments into the wall flange. The door lead overlaps the cabinet lead liner for complete radiation protection. The cabinet lead is cut with a minimum of joints and each joint is overlapped.

The welded, reinforced, double sheet metal construction, durable hinges and unique locking system produce a cabinet designed to give long trouble free service.

Finish: Standard finish - light gray baked enamel.

★ **Optional Items:** Catalog no. 889 - **Automatic Signal Lights**, mounted on the front and back of the cabinet automatically light up to indicate the presence of a cassette within the Transfer Cabinet. The weight of the cassette on a floating bottom inside the compartment actuates a switch to turn signal lights on. An amber safelight filter is included for the darkroom side.

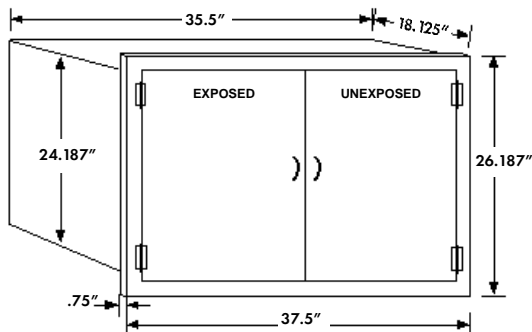
**Rough-In Frames, Opposing Wall Flanges** see page G-5



## AUTOMATIC INTERLOCK 4 DOOR TRANSFER CABINETS

Two independent compartments are created by an upright light-tight wall between the doors. Opening the right side door automatically seals the opposing door on the back of the cabinet. Opening the left does the same for that side. The interior measurements of each compartment of models 887A, 887AX and 887B are 8.375" wide, 20" high and 16.75" deep. The interior measurements of each compartment of models 887H, 887HX and 887J are 14.937" wide, 20" high and 16.75" deep.

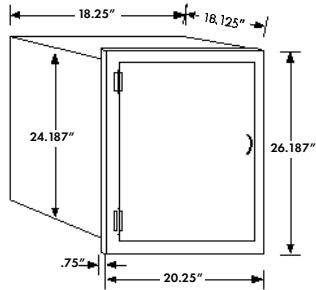
★ **Optional Items:** See above



*AUTO-INTERLOCK 4 DOOR TRANSFER CABINET*

DESCRIPTION	CAB. EXT. DIM			FLANGE EXT. DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH	WIDTH	HGT	DEPTH		
.062" Lead Lined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	240 lbs	887A
.125" Lead Lined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	315 lbs	887AX
Unlined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	187 lbs	887B
<b>LARGE CABINET</b>								
.062" Lead Lined	35.5"	24.187"	18.125"	37.5"	26.187"	.75"	350 lbs	887H
.125" Lead Lined	35.5"	24.187"	18.125"	37.5"	26.187"	.75"	425 lbs	887HX
Unlined	35.5"	24.187"	18.125"	37.5"	26.187"	.75"	260 lbs	887J

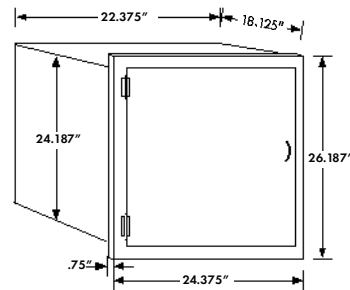
# AUTOMATIC INTERLOCK TWO DOOR TRANSFER CABINETS



The same unique heavy duty construction as described on page G-3 is used in these two door, single compartment models. The smaller of these models can be used when space is limited or for one-way transfer. The larger can accommodate cassettes stacked vertically with a center partition. Opening the door on one side of the cabinet automatically seals the opposing door on the back of the cabinet. Right or left hand doors with hinges on the right and left sides, respectively, are available. The interior measurements of models 887P, 887PX and 887R are 14.625" wide, 20" high and 16.75" deep. The interior measurements of models 887T, 887TX and 887W are 18.75" wide, 20" high and 16.75" deep.



Shown: 887P Right Hand Door

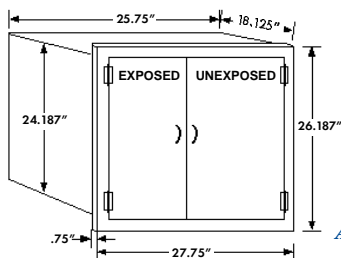


### AUTO-INTERLOCK 2 DOOR TRANSFER CABINET

DESCRIPTION	CAB. EXT. DIM			FLANGE EXT. DIM			APPROX. SHIP WT	CATALOG NO.	
	WIDTH	HGT	DEPTH	WIDTH	HGT	DEPTH		RT. HAND	LT. HAND
<b>SMALL CABINET</b>									
.062" Lead Lined	18.25"	24.187"	18.125"	20.25"	26.187"	.75"	200 lbs	887P	887PL
.125" Lead Lined	18.25"	24.187"	18.125"	20.25"	26.187"	.75"	275 lbs	887PX	887PXL
Unlined	18.25"	24.187"	18.125"	20.25"	26.187"	.75"	150 lbs	887R	887RL
<b>LARGE CABINET</b>									
.062" Lead Lined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	275 lbs	887T	887TL
.125" Lead Lined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	350 lbs	887TX	887TXL
Unlined	22.375"	24.187"	18.125"	24.375"	26.187"	.75"	225 lbs	887W	887WL

\* **Optional Items:** Automatic Signal Lights, page G-3: Rough-In Frames: Opposing Wall Flanges, page G-5

## AUTO-INTERLOCK - UNEQUAL COMPARTMENT 4 DOOR TRANSFER CABINET



Special design makes additional space available for unexposed cassettes to meet peak load periods. Design and construction are the same as described on page G-3. The interior measurement of the smaller compartment is 8" wide: the larger compartment is 12.5" wide and subdivided with a center partition into two 6.25" wide units. Both compartments are 20" high and 16.75" deep.

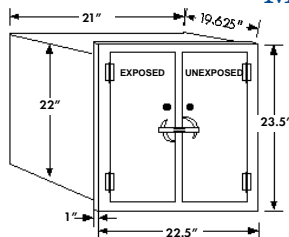


\* **Optional Items:** Automatic Signal Lights, page G-3: Rough-In Frames: Opposing Wall Flanges, page G-5

### AUTO-INTERLOCK - UNEQUAL COMPARTMENT 4 DOOR TRANSFER CABINET

DESCRIPTION	CAB. EXT. DIM			FLANGE EXT. DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH	WIDTH	HGT	DEPTH		
.062" Lead Lined	25.75"	24.187"	18.125"	27.75"	26.187"	.75"	350 lbs	887M
.125" Lead Lined	25.75"	24.187"	18.125"	27.75"	26.187"	.75"	425 lbs	887MX
Unlined	25.75"	24.187"	18.125"	27.75"	26.187"	.75"	300 lbs	887N

## MANUAL INTERLOCK 4 DOOR TRANSFER CABINET



A twist of the bronze T handle releases both doors and automatically locks the opposite side. Interlocking occurs before doors are released to assure light tightness. A simplified trouble free cam actuated interlock assures long service. With the exception of the locking system, these units have the same unique heavy duty construction described on page G-3. The interior of each inner compartment measures 8" wide, 19.25" high and 17.5" deep.



### MANUAL INTERLOCK 4 DOOR TRANSFER CABINET

DESCRIPTION	CAB. EXT. DIM			FLANGE EXT. DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HGT	DEPTH	WIDTH	HGT	DEPTH		
.062" Lead Lined	21"	22"	19.625"	22.5"	23.5"	1"	200 lbs	888A
.125" Lead Lined	21"	22"	19.625"	22.5"	23.5"	1"	275 lbs	888AX
Unlined	21"	22"	19.625"	22.5"	23.5"	1"	150 lbs	888B

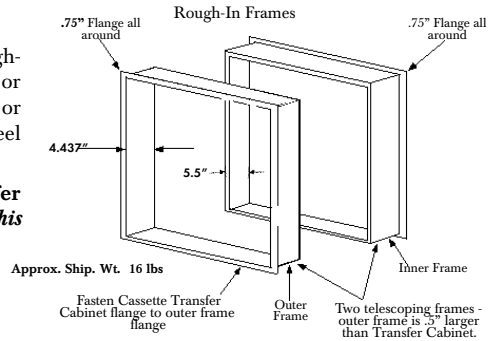
\* **Optional Items:** Automatic Signal Lights, page G-3: Rough-In Frames: Opposing Wall Flanges, page G-5

# ROUGH-IN FRAMES OPPOSING WALL FLANGES INSTALLATION DETAILS

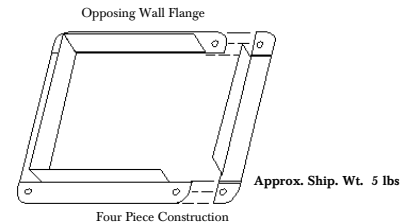


When installing Transfer Cabinets it is advisable to use Rough-In Frames. Rough-In Frames can be installed during construction avoiding the problems of damage or dirt during construction and permitting Transfer Cabinets to be removed or exchanged any time in the future. Rough-In frames are 16 gauge cold rolled steel and welded for strength and rigidity.

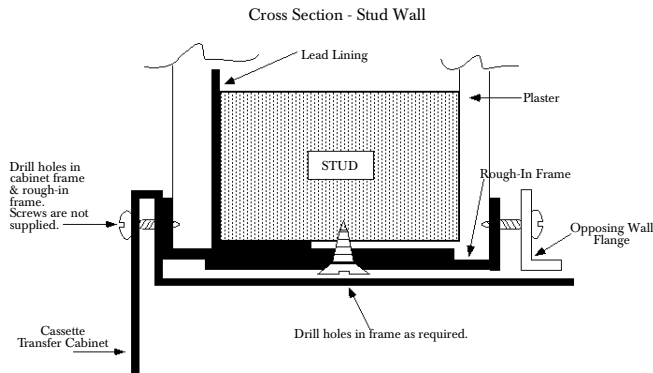
**The outer frame of the telescoping set is 1/2" larger than the Transfer Cabinet for which it is intended. Wall openings should be provided to accept this outer frame.**



The optional Opposing Wall Flange is 18 gauge cold rolled steel and designed to match the Transfer Cabinet size. Its use provides a more finished appearance at the wall in the back of the cabinet.

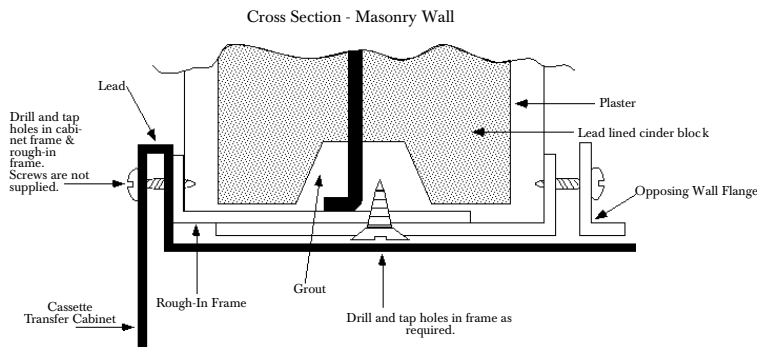


**Finish:** Standard finish - light gray baked enamel. Optional finish - S&S Blue.



### ROUGH-IN FRAMES AND OPPOSING WALL FLANGES

FOR USE WITH TRANS. CAB. MODEL	ROUGH-IN FRAME	OPP. WALL FLANGE
887A, 887AX, 887B	887C	887D
887H, 887HX, 887J	887K	887DH
887P, 887PX, 887R	887S	887DP
887PL, 887PXL, 887RL	887S	887DP
887T, 887TX, 887W	887C	887D
887TL, 887TXL, 887WL	887C	887D
887M, 887MX, 887N	887U	887DU
888A, 888AX, 888B	888C	888D



## SAFELIGHTS

### HIGH VISION SAFELIGHT

PRODUCES MORE USABLE LIGHT IN THE SAFE RANGE  
 THAN CONVENTIONAL SAFELIGHTS

FLUORESCENT BRIGHTER LIGHTING  
 ECONOMICAL REUSABLE FILTER



	WIDTH	HGT	DEPTH
15 Watt	21.5"	1.5"	3.75"
20 Watt	25.5"	1.5"	3.75"

**215040** - High Vision 15 Watt (18" long bulb)  
 approx. shipping Wt. - 5 lbs.

**215050** - High Vision 20 Watt (24" long bulb)  
 approx. shipping Wt. - 7 lbs.

The unique combination of the reusable slip-on polycarbonate filter sleeve and a fluorescent bulb produce more visible light in the safe range than conventional safelights. High Vision Safelights are safe for use with all blue or green sensitive X-Ray film. Safelights must be mounted a minimum distance of 4 feet from film.

You save filter replacement costs when changing the fluorescent bulb because, unlike some safelights, the High Vision Safelight filter is reusable and does not need to be replaced with the bulb.

The safelight has a pull string on-off switch and comes with a six foot 3-conductor grounded cord set. Safelights operate on 118 volts 60 HZ AC .5 AMPS.

**Finish:** Baked on White Enamel.

### SUPERLIGHT



WIDTH	HGT	DEPTH
10.25"	11"	3.25"

This ultrathin, tapered 8"x10" safelight is scientifically designed to direct light where it is most needed. It is constructed of extra heavy gauge steel and electrically welded in the corners. Only safelights made this more costly way can assure permanent light tightness. Tapered design adds both beauty and utility to this superior safelight. Comes with a six foot 3-conductor grounded cord set.

**Finish:** light gray baked enamel.

approx. shipping Wt. - 7 lbs.

**302** - Superlight, Baked Enamel Finish, S&S 6B Filter

**302K** - Superlight, Baked Enamel Finish, GBX-2 Filter

### COMBINATION



WIDTH	HGT	DEPTH
10.25"	14.25"	3.75"

Only 3.75" deep, this two compartment all welded safelight features an 8"x10" safelight and a 4"x10" illuminator. The all steel welded housing permanently prevents any light leakage. Exceptionally shallow depth will allow convenient placement without obstruction. The safelight switch is mounted in the front and the illuminator switch is mounted on the side to avoid any chance of accidental lighting. Comes with a six foot 3-conductor grounded cord set.

**Finish:** light gray baked enamel.

approx. shipping Wt. - 11 lbs.

**301** - Combination, S&S 6B Filter

**300** - Combination, GBX-2 Filter

CHOICE OF FILTERS: **S&S 6B** for Blue sensitive film or **KODAK GBX-2** for Blue or Green sensitive film

### ECONOMICAL

A sturdy economical steel safelight with an 8"x10" filter. It can be mounted on a wall or the tank backboard, or it can stand on a shelf. Comes with a six foot 3-conductor grounded cord set.

**Finish:** light gray baked enamel.

approx. shipping Wt. - 9 lbs.



WIDTH	HGT	DEPTH
10.25"	10.25"	3.5"

**300A** - Economical, S&S 6B Filter

### CIRCULAR 3.5" SAFELIGHT



A compact, low cost 3.5" round safelight that screws into any standard light fixture.

**Finish:** Brushed Aluminum.

approx. shipping Wt. - 2 lbs.

**300B** -  
 Circular, S&S 6B Filter

SAFELIGHTS OPERATE ON 118 VOLTS 60HZ AC .

# HEAVY DUTY 21.5" DELUXE DARKROOM BENCH CABINETS



DOUBLE WALL CONSTRUCTION / WELDED SEAMS AND CORNERS / 18 GAUGE HEAVY DUTY STEEL

MODULAR DESIGN FOR CUSTOM INSTALLATION

BUILT IN BASES

CUSTOM FORMICA TOPS AVAILABLE

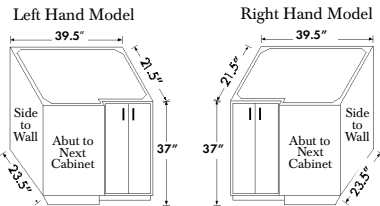


Shown: 68C, 68M, 68Z, 68S, and 68P

Deluxe darkroom cabinets are made of formed and welded cold rolled steel. Cabinet tops are open and perforated for easy installation of optional formica covered cabinet tops. All inner side walls of these double walled cabinets have holes to facilitate side by side mounting. Each cabinet can stand independently or in combination with any other cabinet in this series. All deluxe cabinets have built in bases. Choose from any combination cabinets below and add in any *Film Loading Bin* to make a complete darkroom work station. See page G-1 to select the appropriate bin and base.

**Optional** 68H Formica Counter Tops; 68T Counter Top End Support; 68TA Wall Scribe Strips; 68TB Filler and 68TC Corner Filler

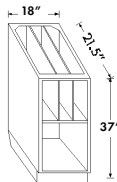
**Finish:** All Bins and Bases: Standard finish - light gray baked enamel. Formica tops are white.



### CORNER CABINET

EXTERIOR DIM		CAB.W/DOOR	CORNER CAB	APPROX.	CATALOG
WIDTH	HGT	DEPTH	DEPTH	SHIP WT	NO.
39.5"	37"	21.5"	23.5	95 lbs	68C

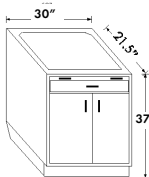
**Corner Cabinets** are designed to fill in the corner of an "L" shaped room layout. Double doors open and permit storage on two full depth adjustable shelves. **A sketch is required with order showing location of cabinet** to determine left or right model.



### CASSETTE CABINET

EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
18"	37"	21.5"	75 lbs	68M

**Cassette Cabinets** store cassettes on edge in the upper three compartments. The lower compartment is for general utility.



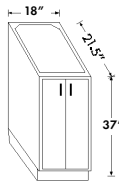
### WORK BENCH UTILITY CABINET

EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
30"	37"	21.5"	165 lbs	68Z

**Work Bench Utility Cabinets:** A complete workbench and utility cabinet with full size pullout shelf, drawer with ball bearing suspension and double doors that open to permit storage on two full depth adjustable shelves. All steel construction.

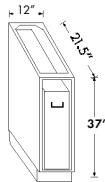


# HEAVY DUTY 21.5" DELUXE DARKROOM BENCH CABINETS



UTILITY CABINET			APPROX.	CATALOG
EXTERIOR DIM			SHIP WT	NO.
WIDTH	HGT	DEPTH		
18"	37"	21.5"	77 lbs	68N

**Utility Cabinets:** Double doors open and permit storage on two full depth adjustable shelves. All steel construction.

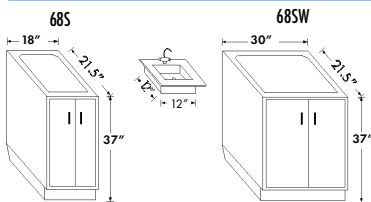


WASTE BIN / IDENTIFIER CABINET				
EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
12"	37"	21.5"	75 lbs	68P
12"	37"	21.5"	75 lbs	68PX

**Waste Bin / Identifier Cabinet:**

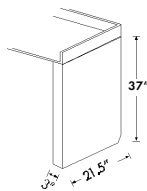
**68P:** Deposit waste through a cutout in the counter top. All steel construction. Inner steel waste bin has a lift handle for easy removable.

**68PX:** Designed to have a film identification printer recessed into the counter top and cabinet of this unit. All steel construction.



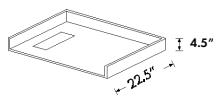
SINK CABINET				
EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
18"	37"	21.5"	77 lbs	68S
30"	37"	21.5"	95 lbs	68SW

**Sink Cabinets** come with a stainless steel sink complete with drain, tail piece, faucets and spigot. Double doors open and permit storage on two full depth adjustable shelves. All steel construction.



CABINET END SUPPORT				
EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HGT	DEPTH	SHIP WT	NO.
3"	37"	21.5"	30 lbs	68T

**Cabinet End Support:** This all steel leg is available to support the formica top beyond the end of a cabinet when a longer counter top is desired.



FORMICA COUNTER TOP				
EXTERIOR DIM			APPROX.	CATALOG
LENGTH	HGT	DEPTH	SHIP WT	NO.
To Order	4.5"	21.5"	Custom	68H

**Formica Counter Tops** are custom made for all types of darkrooms and loading benches. Usual construction includes white formica on .75" chipboard with a 4.5" high backsplash and end returns. 22.5" depth allows for a 1" overhang at the front of the cabinet. Custom cut outs are made for waste bins, ID printers, etc. When ordering, please provide a drawing or sketch.

**FINISHING FILLER PIECES**

	CATALOG NO.
Wall Scribe Strip	68TA
Cabinet Filler	68TB
Corner Filler	68TC

Custom made fillers, scribe strips or corners are available to complete each installation. Made to match cabinet profile, they are designed to close any spaces between cabinets or a cabinet and a wall for a finished smooth look. The Corner Filler can be used in a corner as an alternative to a corner cabinet.

**Contact factory for engineering assistance.**

# 15" COMPACT DARKROOM BENCH CABINETS



MIX AND MATCH COMBINATION  
 ONLY 15" DEEP COMPACT DESIGN - LOW COST  
 20 GAUGE ALL STEEL CONSTRUCTION

Designed expressly for the X-Ray department, these steel cabinets form the perfect work station for any large or small darkroom, film loading station, etc. While occupying a minimum of floor space, they will hold all of the film, cassettes and utility items used by the X-Ray department. The compact design and low cost make them the ideal choice for most X-Ray installations.

Choose from any combination of the six cabinets below and add in any *Film Loading Bin* (page G-1) and *Drier* (page G-14) to make a complete darkroom work station.

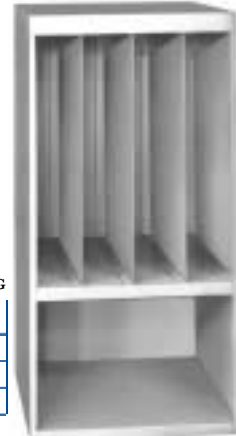
**Optional formica tops** and **all steel bases** are available for each unit. For a finished, built-in look, a custom formica One Piece Top (with back splash [118G] or without back splash [118F]) and/or One Piece steel Custom Base [118B] are available for any combination of units.

**Finish:** All Bins and Bases: Standard finish - light gray baked enamel. Formica tops are white.



**THREE COMPARTMENT CASSETTE STORAGE CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cassette Cabinet	11"	33"	15"	35 lbs	160
W/Base	11"	36.5"	15"	50 lbs	160B
W/Top	11"	34"	15"	45 lbs	160T
W/Base & Top	11"	37.5"	15"	60 lbs	160BT



**FOUR COMPARTMENT CASSETTE STORAGE CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cassette Cabinet	16"	33"	15"	50 lbs	161
W/Base	16"	36.5"	15"	65 lbs	161B
W/Top	16"	34"	15"	60 lbs	161T
W/Base & Top	16"	37.5"	15"	75 lbs	161BT



**OPEN FRONT UTILITY CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cabinet	29"	33"	15"	50 lbs	890
W/Base	29"	36.5"	15"	65 lbs	890B
W/Top	29"	34"	15"	60 lbs	890T
W/Base & Top	29"	37.5"	15"	75 lbs	890BT



**DOUBLE DOOR, TWO SHELF CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cabinet	29"	33"	15"	60 lbs	891
W/Base	29"	36.5"	15"	75 lbs	891B
W/Top	29"	34"	15"	70 lbs	891T
W/Base & Top	29"	37.5"	15"	85 lbs	891BT



**TWO SHELF UTILITY CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cabinet	16"	33"	15"	50 lbs	893
W/Base	16"	36.5"	15"	65 lbs	893B
W/Top	16"	34"	15"	60 lbs	893T
W/Base & Top	16"	37.5"	15"	75 lbs	893BT



**WASTE BIN CABINET**

DESCRIPTION	EXTERIOR DIM			APPROX. CATALOG	
	WIDTH	HGT	DEPTH	SHIP WT	NO.
Cabinet	16"	33"	15"	65 lbs	894
W/Base	16"	36.5"	15"	80 lbs	894B
W/Top	16"	34"	15"	75 lbs	894T
W/Base & Top	16"	37.5"	15"	90 lbs	894BT

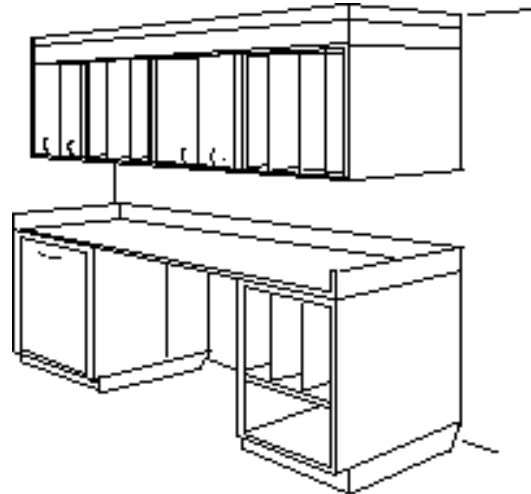
\* **Optional Items:** Custom one piece **Steel Base** - 118B; Custom one piece **Flat Formica Top** - 118F; Custom one piece **Formica Top with Back Splash** - 118G; **Counter Top End Support** - 115; Factory Assembled and Crated for **One Piece Installation** - 118P; **Film Dryer** see page G-14

## DELUXE WALL CABINETS

- DOUBLE WALL WELDED SEAM CONSTRUCTION
- ATTRACTIVE WALL MOUNTED UNITS
- 18 GAUGE HEAVY DUTY STEEL
- MODULAR DESIGN FOR CUSTOM INSTALLATION
- SAVES FLOOR SPACE

Ideal for large or small darkrooms, Deluxe Wall Cabinets provide additional storage space without using valuable floor space. They are the perfect mate to either the 15" Compact Darkroom Bench Cabinets or Heavy Duty 21.5" Deluxe Darkroom Bench Cabinets. All inner side walls of these double walled cabinets have holes to facilitate side by side mounting. Choose from any combination of wall cabinets below and add in any *Cassette Transfer Cabinet* (page G-3, 4) to make a complete darkroom work station.

**Finish:** Standard finish - light gray baked enamel. Formica tops are white.



Two sizes of **Wall Cassette Cabinets** are available, 18" wide with three compartments and 24" wide with four compartments. Both cabinets are all steel double wall construction with keyholes provided in the rear for easy hanging and holes in the inner side walls to facilitate bolting units side by side.

#### WALL CASSETTE CABINET

DESCRIPTION	EXTERIOR DIM			APPROX. SHIP WT	CATALOG NO.
	WIDTH	HEIGHT	DEPTH		
3 Compartment	18"	22"	16"	40 lbs	159
4 Compartment	24"	22"	16"	51 lbs	158

**Wall Utility Cabinets** are all steel double wall construction with keyholes provided in the rear for easy hanging and holes in the inner side walls to facilitate bolting units side by side. Double doors, door catch and two adjustable shelves come with this cabinet.

#### WALL UTILITY CABINET

EXTERIOR DIM			APPROX. SHIP WT	CATALOG NO.
WIDTH	HEIGHT	DEPTH		
18"	22"	16"	44 lbs	157



# DARKROOM ACCESSORIES



## 5 GALLON DEVELOPING TANK



**POLISHED STAINLESS STEEL**  
**HELLIARC WELDED**

**PASSIVATED**  
**LONG LIFE**

Constructed of type 316 stainless steel, Heliarc welded, passivated (chemically treated to resist corrosion) and polished to a satin finish, this tank is designed and built to provide trouble free service. Two removable 5 gallon insert tanks and a tank drain with plastic stand pipe are supplied with each tank.

**98A** - Stainless Steel Tank with two 5 gallon insert tanks ( base not included)  
19"x17"x22.5" deep Approx. shipping Wt. - 47 lbs.

**\* Optional Items:**

**98C** - Stainless Steel Base approx. shipping Wt. - 15 lbs.

**98D** - Enamel Steel Base approx. shipping Wt. - 16 lbs.

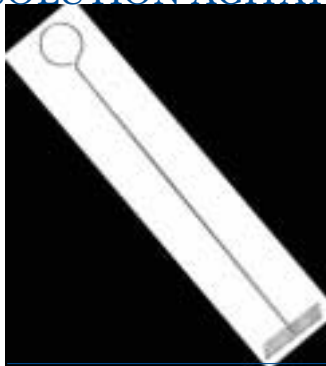
(Enamel Steel Bases are constructed of heavy cold rolled steel and finished in light gray baked enamel. Base raises tank height to 37".)

**98E** - Stainless Steel Overall Tank Cover approx. shipping Wt. - 5 lbs.

**98F** - 5 Gallon Insert Tank Cover approx. shipping Wt. - 2 lbs.

Shown: 98A Stainless Steel Tank with 98C Stainless Base

## SOLUTION AGITATORS



Stainless Steel. Rod is welded  
to a stainless steel  
stated bottom plate for  
Electro-polished finished.  
Stainless Steel Solution  
Agitator  
Shipping Wt. -7 lbs.  
**Minimum order of 2**

## DARK ROOM TIMER



For accurate timing of intervals up to 30 minutes. An adjustable stop makes it easy to set repeated time intervals. Operation is simple: setting the timer winds the mechanism, a gong signals the end of the time period. Dial glows in the dark for easy reading.

**839A** - Darkroom Timer approx. shipping Wt. -3 lbs.

## THERMOMETERS

### DIAL THERMOMETERS



Constructed entirely of Stainless Steel. Easy reading 1.75" diameter dial. Stem is 6" long and .125" in diameter. Thermometer can be hooked onto the insert or ordered with a plastic float.

**837** - Dial Thermometer

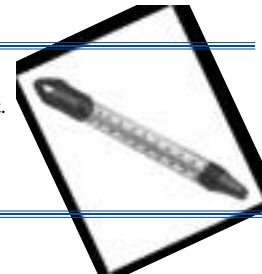
**837C** - Dial Thermometer with Float

## FLOATING GLASS THERMOMETER

A sensitive X-Ray Thermometer enclosed in a glass case, weighted so that the thermometer floats upright. Easy to read scale marked at 68° F. Eye at top allows thermometer to be hung.

**838**- Floating Glass Thermometer

**Minimum order of 6**



## DIGITAL HAND-HELD THERMOMETERS

A battery powered hand-held thermometer with LED readout. Comes equipped with one detachable immersion probe. ±.5% accuracy. Range: 32 - 230°F/0 - 110°C

**SS07-402** - Digital Thermometer

**SS07-403** - Extra Immersion Probe

## LIGHT LOUVERS

Darkroom and fluoroscopic rooms require these louvers to obtain fresh air without light. Louvers are made of steel finished with a non-reflecting black baked enamel. They are 1.375" thick and can be built into a wall or door. Available in four stock sizes.

### LIGHTPROOF LOUVERS

EXTERIOR DIM			APPROX.	CATALOG
WIDTH	HEIGHT	DEPTH	SHIP WT	NO.
12"	12"	3.75"	13 lbs	965A
12"	18"	3.75"	20 lbs	965B
12"	24"	3.75"	24 lbs	965C
24"	24"	3.75"	45 lbs	965D



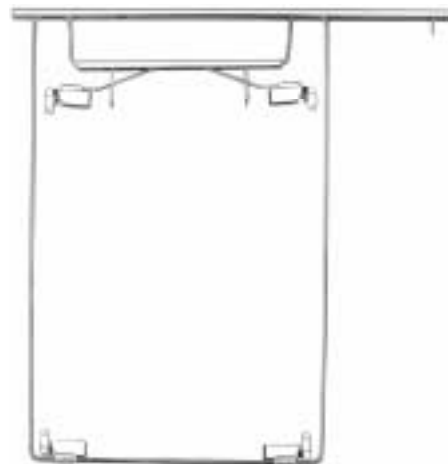
## DEVELOPING HANGERS

These durable stainless steel hangers are passivated and electropolished. The upper clips and cross bar springs provide tension to keep the film flat without tearing. The two bottom clips hold the film at the lowest possible position at the bottom of the tank. 14"x36" hangers are designed to have the film looped around the bottom of the hanger and clipped at the top in order to fit a standard 5 gallon tank.

There is a nominal packing charge if ordering less than twelve hangers (mixed sizes acceptable).

### DEVELOPING HANGERS

FILM SIZE	APPROX. SHIP WT	CATALOG NO.
5" x 7"	2 lbs	805
8" x 10"	2 lbs	808
10" x 12"	2 lbs	810
11" x 14"	2 lbs	811
14" x 17"	2 lbs	814
7" x 17"	2 lbs	815
14" x 36"	5 lbs	836



## HANGER STORAGE RACK 25 HANGER CAPACITY

Each rack holds up to 25 assorted sizes of hangers and is easily mounted on any dark room wall.

**Finish:** Stainless Steel units are polished to a satin finish. Baked Enamel units: light gray .



WIDTH HGT DEPTH  
 15.625" 5.5" 10"

- 170** - Baked Enamel Hanger Storage Rack approx. shipping Wt. - 4 lbs.  
**170S** - Stainless Steel Hanger Storage Rack approx. shipping Wt. - 4 lbs.

# QUICKDRY - FILM DRYERS



- 12 FILM CAPACITY
- THERMOSTATICALLY CONTROLLED
- STAINLESS STEEL or BAKED ENAMEL
- AVAILABLE WITH AUTOMATIC TIMER
- CHOICE OF LEFT HAND DOOR or RIGHT HAND DOOR  
or SPLIT DOUBLE DOORS

The QUICKDRY Dryer can be placed on the floor or on a table. It will economically deliver clean, warm air for fast drying and is thermostatically controlled to prevent dangerous overheating. The air recirculating system keeps heat inside the dryer and speeds drying in any weather. A heavy duty timer (120T) is also available.

The cabinet is cold rolled steel with a baked enamel finish or polished Stainless Steel. The hanger rack is constructed of heavy Stainless Steel and will hold twelve 14"x17" hangers. The bottom is covered by a removable Drip Tray. Doors are reinforced and available in your choice of right hand opening, left hand opening, or split double doors. Right hand units have hinges located on the right side of the door and the door opens from left to right. Left hand units have hinges on the left side of the door and open from right to left.

ALL DRYERS OPERATE ON 118volts 60HZ-AC 6 AMPS. Other voltages available on special order.

Finish: Stainless Steel units are polished to a satin finish. Baked Enamel units: light gray .

\* **Optional Items:** 120T: Built in Heavy Duty Timer

Shown: 119 Right Hand Door

WIDTH	HGT	DEPTH
23"	33.5"	17.75"

approx. shipping Wt. - 67 lbs.

### BAKED ENAMEL FINISH

DESCRIPTION	CATALOG NO
Right Hand	119
Left Hand	119L
Double Door	119D

### STAINLESS STEEL FINISH

DESCRIPTION	CATALOG NO
Right Hand	119S
Left Hand	119LS
Double Door	119DS

## FILM DRYING RACKS

### FOLDING DRYING RACK

- 12 HANGER CAPACITY
- FOLD AWAY TRAY
- EASY WALL MOUNTING

The Folding Drying Rack, constructed entirely of polished Stainless Steel, holds twelve 14"x17" hangers. A solid Stainless Steel back protects the wall at all times and the 20" x 17" tray can be folded up against the back for extra convenience when not in use. It can be mounted quickly and easily in any location. The rack is 23" high, 20" wide and 17" deep with the tray in the open position.



174A - Folding Drying Rack approx. shipping Wt. - 13 lbs.

WIDTH	HGT	DEPTH
20"	23"	17"

### WALL DRYING RACK

A drying rack of polished Stainless Steel. Holds 12 developing hangers at an angle for quick drainage. Holes provided for easy wall mounting.



172 - Wall Drying Rack approx. shipping Wt. - 2 lbs.

WIDTH	HGT	DEPTH
19.75"	2"	2"

## FILM DRYERS

**THERMOSTATICALLY CONTROLLED**  
**12 or 15 FILM CAPACITY**  
**STAINLESS STEEL or BAKED ENAMEL**  
**AVAILABLE WITH FORMICA TOPS**  
**AVAILABLE WITH AUTOMATIC TIMER**  
**HIGH EFFICIENCY**

This is the small dryer with large dryer features. Scientific air circulation design creates fast drying at high efficiency. Cabinets of polished Stainless Steel or cold rolled steel are available both in twelve and fifteen film capacities.

Film hangers fit into specially slotted holders that keep them separated and vertical at all times. All interior parts are made of Stainless Steel. The drawer opens its full width on ball bearing extension slides. The Stainless Steel drip pan moves with the drawer and is always under the wet film.

The drying system includes a heavy duty motor and fan plus a thermostatically controlled 750 watt sealed heating unit separately controlled but interlocked so that the heater will not function without the fan. A heavy duty timer (**120T**) is also available. The air system recirculates the same heated air many times, thereby obtaining additional drying without additional heat and reducing the heat exhausted into the darkroom, so that normal ventilation is usually sufficient without additional ducts. A pre-set thermostat prevents overheating.

Cabinets are constructed of heavy gauge material welded together for strength.

**ALL DRYERS OPERATE ON 118 volts 60HZ AC 6 AMPS.** Other voltages available on special order.

With or without optional base these dryers can be matched with other 15" cabinets (see page G-9).

**Finish:** Stainless Steel units are polished to a satin finish. Baked Enamel units: Standard finish - light gray baked enamel. Optional Formica Tops are white.

**\* Optional Items:**

**Base:** Designed to raise the dryer 3.5" to provide toe kick space and match 15" Darkroom Cabinets with bases.

**Top:** Formica Dryer Tops are .75" thick and provide a non-marring work surface.

**120T:** Built in Heavy Duty Timer



**12 Film Dryer**  
 WIDTH HGT DEPTH  
 22.5" 33" 15"  
 With Base 36.5" High



**15 Film Dryer**  
 WIDTH HGT DEPTH  
 22.5" 33" 24"  
 With Base 36.5" High

**FILM DRYER - STAINLESS STEEL FINISH**

DESCRIPTION	APPROX. SHIP WT	CATALOG NO
<b>12 FILM DRYER</b>		
Dryer	73 lbs	120S
Dryer W/ Base	85 lbs	120SB
Dryer W/ Top	80 lbs	121AS
Dryer W/ Top & Base	92 lbs	121ASB
<b>15 FILM DRYER</b>		
Dryer	100 lbs	150S
Dryer W/ Base	115 lbs	150SB
Dryer W/ Top	110 lbs	151S
Dryer W/ Top & Base	125 lbs	151SB

**FILM DRYER - BAKED ENAMEL FINISH**

DESCRIPTION	APPROX. SHIP WT	CATALOG NO
<b>12 FILM DRYER</b>		
Dryer	73 lbs	120
Dryer W/ Base	73 lbs	120B
Dryer W/ Top	80 lbs	121A
Dryer W/ Top & Base	92 lbs	121AB
<b>15 FILM DRYER</b>		
Dryer	100 lbs	150
Dryer W/ Base	115 lbs	150B
Dryer W/ Top	110 lbs	151A
Dryer W/ Top & Base	125 lbs	151B