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***Don't Forget To Delete Me!***

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## Wichtige Sicherheitshinweise

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This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient/Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

**CAUTION :** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

**NOTE :** The use of a non-shielded interface cable with this equipment is prohibited.

## IMPORTANT SAFEGUARDS

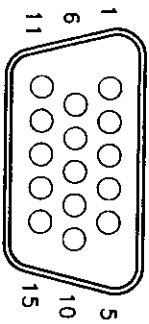
### Warnings :

1. Read all of these instructions.
2. Save these instructions for later use.
3. Unplug this monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the monitor manufacturer as they may cause hazards.
5. Do not use this monitor near water. For example near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc...
6. Do not place this monitor on an unstable cart, stand, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer or sold with monitor. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surface. This monitor should never be placed near or over a radiator or heat register. This monitor should not be placed in built-in installation such as a bookcase unless proper ventilation is provided.
8. This monitor should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied in your home, consult your monitor dealer or local power company.
9. This monitor is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

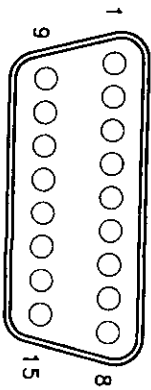
10. Do not allow anything to rest on the power cord. Do not locate this monitor where the cord will be abused by persons working on it.
11. Follow all warnings and instructions marked on the monitor.
12. For added protection for this monitor, when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the monitor due to power-line surges.
13. Do not overload wall outlets and extension cords as this can result into fire or electric shock.
14. Never push objects of any kind into this monitor through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the monitor.
15. Do not attempt to service this monitor yourself since opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the monitor.
  - c. If the monitor has been exposed to rain or water.
  - d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to normal operation.
  - e. If the monitor has been dropped or the cabinet has been damaged.
  - f. When the monitor exhibits a distinct change in performance—this indicates a need for service.
17. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. Upon completion of any service or repairs to this monitor, ask the service technician to perform routine safety checks to determine that the monitor is in safe operating condition.
19. The socket outlet shall be near the equipment and shall be easily accessible.
20. The power supply cord is used as the main disconnect device.

## SECTION 1

### Pin Assignment Table



IBM Computers  
15-pin mini D-Sub



MAC II or LC Computers  
15-pin D-Sub

#### For The Monitor

VGA, 8514/A, &  
XGA mapped to  
the Monitor

Mac II mapped to  
the monitor

IBM VGA  
15-pin mini D-Sub  
female

Apple Mac II or  
LC 15-pin D-Sub  
female

#### For the Graphics Board

1 Red Video	1 Red Video	1 Red Video	1 Red Ground
2 Green Video	2 Green Video	2 Green Video	2 Red Video
3 Blue Video	3 Blue Video	3 Blue Video	3 Composite sync.
4 Ground	4 Ground	4 Reserved	4 Sense 0
5 Self Test	5 Ground	5 Self Test	5 Green Video
6 Red Ground	6 Red Ground	6 Red Ground	6 Green Ground
7 Green Ground	7 Green Ground	7 Green Ground	7 Sense 1
8 Blue Ground	8 Blue Ground	8 Blue Ground	8 Reserved(+12Volts)
9 No Connection	9 No Connection	9 Blue Ground	9 Blue Video
10 Digital Ground	10 Sync, Ground	9 Key(no pin)	10 Sense 2
11 Ground	11 Ground	10 Digital Ground	11 Ground
12 Reserved	12 Reserved	11 Display ID 0	12 Vertical Sync.
(SDA FOR DDC)			
13 Horizontal Sync.	13 Horizontal Sync.	12 Display ID 1	13 Blue Ground
14 Vertical Sync.	14 Vertical Sync.	13 Horizontal Sync.	14 Ground
15 No Connection	15 No Connection	14 Vertical Sync.	15 Horizontal Sync.
(SCL FOR DDC)		15 Reserved	

Remark : with the optional MAC II cable adaptor for use with Macintosh or compatible computers. ( Adaptor P/N:412-800-0001 )

## SECTION 2

### General Introduction

This 15" auto-scan monitor which will operate from VGA to highend wide applications. The intelligent monitor is microprocessor controlled with a powerful memory base. The fixed mode presetted by factory. It also allows user to place their own settings into memory via external controls. The whole status is indicated on the screen.

This monitor has energy saver function which can manage its use of power when the computer becomes idle for a period of time, the monitor goes into power-saving state. When activity resumes, the monitor goes back to normal power. The power management function works by installing the optional Monitor Green software and choosing its operating parameters.

### Features

1. 15" flat screen, 0.28mm dot-pitch CRT.
2. Auto-scanning 30KHz-64KHz(Hor.) 50Hz-100Hz(Vert.)  
30KHz-50KHz(For Product No.:PV-550/550R/550D/550DA  
1550A)
3. Micro-processor based design with 10 modes factory preset and 10 user grammable modes.
4. Compatible with standard IBM VGA. 8514A. XGA. SVGA. MAC II . . . and also VESA ergonomic standard.
5. Picture rotation control.(option)
6. Totally flicker free for 1024\*768 resolution.
7. Auto-switching power supply.
8. Power saving function with VESA/EPA compliance.
9. MPR II function as option.
10. Equipped with DDC1 and DDC2B for Plug & Play Compatibility, (Option)

## SECTION 3

### Specification

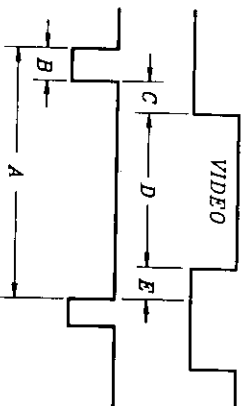
Power Input	AC 100-240V, 50-60HZ
Power Consumption	100W max.
C.R.T.	15" diagonal flat screen, 13.8" viewable size 0.28mm dot-pitch. Tint glass, Non-glare.
Input signal	
Video	Analog R.G.B 0.7Vpp/75 ohm. Separate or composite
Sync	Hor./Vert. TTL Pos./Neg.
Connector	D-sub 15-pin interface cable.
Resolution (max.)	1280 X 1024 1024 X 768 (For Product No.:PV-550/550R/550D/ 550DA/1550A) Hor. 30KHz-64KHz 30KHz-50KHz(For Product No.:PV-550/550R/ 550D/550DA/1550A) Vert. 50Hz-100Hz 75MHz at -3dB
Scanning Freq.	260mm X 190mm (Adjustable) power ON/OFF, Select \ Up \ Down \ Right \ Left. control function H-size, H-phase, V-size, V-center, Pincushion, Trape-zium Brightness, Contrast, Rotation.(Option)
Video B/W	
Display size	
User control	
Cabinet Dimension	385mm(L) X 359mm(W) X 366mm(H)
Weight	12.5 kg(27.5 Lb). Net. 14 kg(30.8 Lb). Gross.
Environment	operation Temp. +5°C - +40°C Humidity 20% - 90% Storage Temp. -20°C - +60°C Humidity 10% - 95%

## SECTION 4

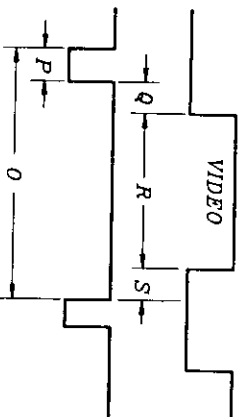
### Suggested Timing

This monitor is an auto-scanning monitor. There are 10 modes preset in micro-processor. The following are recommended timing we suggest.

#### HORIZONTAL

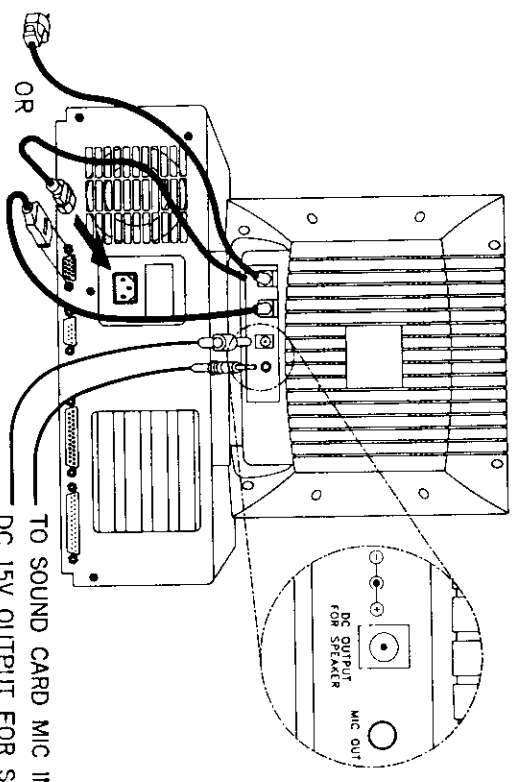


#### VERTICAL



# SECTION 5

## Monitor Connect



1. Plug power cord into the PC power supply or into the wall outlet. A three wire cord is provided as a safety precaution to ensure proper electrical grounding.
2. Connect the 15-Pin D-type signal cable to the VGA-card connector and lock the two screws to ensure firm grounding.
3. DC Output(Option)  
To connect the DC 15v output from monitor to speaker box kits (MOD No. AR200) and plug the jack into the DC output socket.

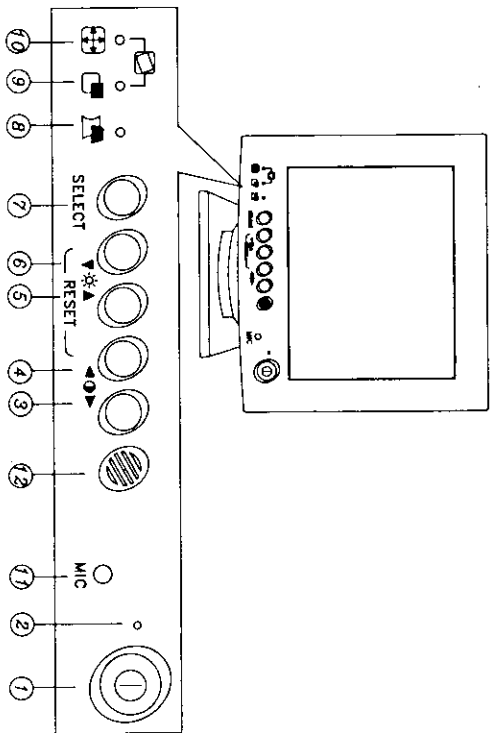
### Precautions---When using this monitor

- To avoid eyes fatigue, do not use the color monitor in bright background sunlight or other light sources shine directly on the screen.
- Set up in a good ventilated environment. The heat from the monitor dissipate properly.
- Keep the monitor away from high capacity transformer, electric motor or other strong magnetic field.
- The monitor should not be used in damp, dusty or dirty area.

Remark : MAC II mode will save in user programmable area.

Preset Modes	Fh	Aus	Bus	Cus	Dus	Eus	Fv	Oms	Pms	Qms	Rms	Sms	Interlaced	H/V sync.
VGA 640 X 350	31.5KHz	31.778	3.810	1.589	26.058	0.318	70.1Hz	14.268	0.064	0.890	13.156	0.159	No	+
VGA 720 X 400	31.5KHz	31.778	3.810	1.589	26.058	0.318	70.1Hz	14.268	0.064	0.890	13.156	0.159	No	+
VGA 640 X 480	31.5KHz	31.778	3.810	1.589	26.058	0.318	70.1Hz	14.268	0.064	0.890	13.156	0.159	No	+
MAC II 640 X 480	35.0KHz	28.571	2.116	3.175	21.164	2.116	66.7Hz	15.000	0.086	0.793	13.714	0.086	No	-
SVGA 800 X 600	35.2KHz	28.444	2.000	3.556	22.222	0.667	56.3Hz	17.778	0.057	0.626	17.067	0.028	No	-
IBM 8514A	35.5KHz	28.100	3.910	1.247	22.760	0.178	87.0Hz	11.500	0.112	0.563	10.824	0.014	Yes	+
VESA 800 X 600	37.9KHz	26.400	3.200	2.200	20.000	1.000	60.3Hz	16.579	0.106	0.607	15.840	0.026	No	+
SVGA VESA	48.1KHz	20.794	2.400	1.280	16.000	1.120	72.0Hz	13.887	0.124	0.479	12.479	0.772	No	+
XGA 1024	48.4KHz	20.677	2.092	2.462	15.754	0.369	60.5Hz	16.666	0.124	0.600	15.880	0.062	No	+
VESA 1024X768	56.5KHz	17.707	1.813	1.920	13.653	0.320	70.1Hz	14.272	0.106	0.513	13.999	0.053	No	+
CAD/CAM 1280X1024	64.3KHz	15.552	0.970	2.24	11.93	0.37	60.4Hz	16.561	0.047	0.498	15.923	0.093	No	+

## SECTION 6



### Operation

1. Power switch(①)  
Power on/off switch is a push-bottom type. Used to "power on" or "power off".
2. Power-on Indicator  
This indicator illuminates when the monitor power is turn on.
3. & 5. Adjust(▶)(▲)  
Used to increase parameter volume adjustment.
4. & 6. Adjust(◀)(▼)  
Used to decrease parameter volume adjustment.
7. Select  
The select key will be defined as "function control" field, which includes 6 function parameters by different LED. There are H-size, V-size, H-phase, V-center, pincushion, Trapezium, Trapezium, press "select" key user can address the function control.

## SECTION 6

8. & 9. & 10. Function Control Indicator  
Those indicator LED illuminates when the select key to press.
11. MIC Input(Optional)  
An external microphone can be used instead of the built-in microphone plugging a microphone with a mini plug connector into the microphone jack.
12. Built-In Microphone(Optional)  
To connect the built-in microphone, insert one end of the enclosed microphone cable into the MIC out jack of the monitor. Insert the other end the MIC IN jack of the computer's sound card.

### Adjusting and programming

If the timing of display card you use is not the same as factory or input timing you may need to adjust your monitor.

- (a). Brightness and Contrast  
User can directly press adjust "▼" and "▲" in function LED field condition to adjust brightness. Also user can press "◀" & "▶" key adjust contrast directly.
- (b). Picture Size  
Press "select" key. The first LED on the left of the panel will steadily for approximately 6 seconds, then press "▼" and "▲" key V-size adjustment, press "◀" and "▶" key for H-size adjustment.
- (c). Picture shift(position)  
Press "select" key again. The second LED will light, then press "▲" and "▼" key for V-center adjustment. Press "◀" and "▶" key for phase adjustment.
- (d). Press "select" key again. The third LED will light, then press "▼" and "▲" key for Trapezium (keystone) adjustment, press "◀" and "▶" key for pincushion adjustment.
- (e). Rotation (tilt):option  
Press "select" key again. The adjust function will go back to the Rotation adjust is optional function. When first and second LED are light same time, press "▼" and "▲" key for Rotation adjustment.



## SECTION 6

(f). When adjust functions are going to min. or max. value. The function LED will be blink all the time-

(g). Reset

Press  $\blacktriangledown$  +  $\blacktriangleleft$  ) two keys the reset function is effective, meanwhile all of the parameters status will be return to original status set by factory, make new adjustment follow  $\blacktriangleright$  &  $\blacktriangleright$  adjust  $\blacktriangleright$  keys to adjust each parameter. All the changes will be auto saved in user define area by function LED blank when finished be settings.

(h). Self-test

Press  $\blacktriangleup$  (  $\blacktriangleright$  ) + Right (  $\blacktriangleright$  )  $\blacktriangleright$  two keys together, the monitor will do the autotest by itself. And user can make sure all the adjustable functions are working well or not. Press  $\blacktriangleright$  select  $\blacktriangleright$  key the self-test function will stopped.

There are 20 memory partitions which are used to memory 20 display modes including its timing formats and display setting.

Those memory divided equally to two area one for factory preset, and the other for user programmable area.

The user settings are stored one by one in the user area, when the number of settings exceed user area.

It will overlap from the first user setting by first in first out method.

## SECTION 7

### How To Test The Monitor

1. Turn off the monitor and the system unit.
2. Make sure the monitor power cord is plugged into the system or the power outlet.
3. Disconnect the display signal cable from the system unit.
4. Turn on the power switch of the monitor and system unit.
5. Did the display power--on light come on?  
NO : Have the display serviced.  
YES : Continue with the next step.
6. Is the image shown present and stable?  
NO : Have the display serviced.  
YES : Continue with the next step.
7. Turn off the monitor.
8. Reconnect the monitor signal cable to the system unit.
9. Turn on the monitor and the system unit.
10. Look at the monitor screen is the screen blank(dark with no image)?  
YES : Have the system unit serviced.  
NO : Continue with the next step.
11. After the system unit completes the power on self test you should have normal display on the screen. Are you having any obvious display problems for example jittering, rolling, shifting or out of focus characters?  
YES : Have the display serviced.  
NO : Continue with the next step.
12. Are you having any problems with the contrast or brightness control?  
YES : Have the display serviced.  
NO : Have the system unit serviced.

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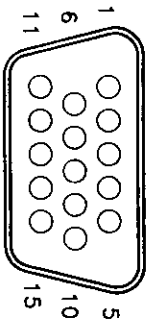
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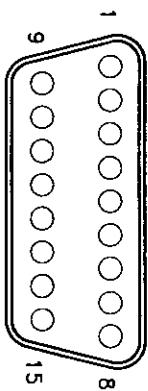
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15. Do not attempt to service this monitor yourself since opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the monitor.
  - c. If the monitor has been exposed to rain or water.
  - d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to normal operation.
  - e. If the monitor has been dropped or the cabinet has been damaged.
  - f. When the monitor exhibits a distinct change in performance—this indicates a need for service.
17. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. Upon completion of any service or repairs to this monitor, ask the service technician to perform routine safety checks to determine that the monitor is in safe operating condition.
19. The socket outlet shall be near the equipment and shall be easily accessible.
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# SECTION 1

## Pin Assignment Table



IBM Computers  
15-pin mini D-Sub



MAC II or LC Computers  
15-pin D-Sub

### For The Monitor

VGA, 8514/A, & XGA mapped to the Monitor

- 1 Red Video
- 2 Green Video
- 3 Blue Video
- 4 Ground
- 5 Self Test
- 6 Red Ground
- 7 Green Ground
- 8 Blue Ground
- 9 No Connection
- 10 Digital Ground
- 11 Ground
- 12 Reserved
- (SDA FOR DDC)
- 13 Horizontal Sync.
- 14 Vertical Sync.
- 15 No Connection (SCL FOR DDC)

### For the Graphics Board

Mac II mapped to the monitor

- 1 Red Video
- 2 Green Video
- 3 Blue Video
- 4 Ground
- 5 Ground
- 6 Red Ground
- 7 Green Ground
- 8 Blue Ground
- 9 No Connection
- 10 Sync, Ground
- 11 Ground
- 12 Reserved
- 13 Horizontal Sync.
- 14 Vertical Sync.
- 15 No Connection

IBM VGA 15-pin mini D-Sub female

Apple Mac II or LC 15-pin D-Sub female

Remark : with the optional MAC II cable adaptor for use with Macintosh or compatible computers. ( Adaptor P/N:412-800-0001 )

# SECTION 2

## General Introduction

This 14" auto-scan monitor which will operate from VGA to highend wind applications. The intelligent monitor is microprocessor controlled with a powerful memory base. The fixed mode presetted by factory. It also allows use place their own settings into memory via external controls. The whole set status is indicated on the screen.

This monitor has energy saver function which can manage its use of power when the computer becomes idle for a period of time, the monitor goes in power-saving state. When activity resumes, the monitor goes back to power. The power management function works by installing the optional Monitor Green software and choosing its operating parameters.

## Features

1. 14" 90° deflection, non-glare.
2. Auto-scanning 30KHz-50KHz(Hor.) 50Hz-100Hz(Vert.)
3. Micro-processor based design with 10 modes factory preset and 10 user programmable modes.
4. Compatible with standard IBM VGA. 8514A. XGA. SVGA. MAC II and also VESA ergonomic standard.
5. Picture rotation control.(option)
6. Auto-switching power supply.
7. Power saving function with VESA/EPA compliance.
8. MPR II function as option.
9. Equipped with DDC1 and DDC2B for Plug & Play Compatibility, (Option).

# SECTION 3

## Specification

Power Input  
 Power Consumption  
 C.R.T.

AC 100-240V. 50-60HZ  
 85W max.  
 14" 90° deflection, tint glare or non-glare.  
 13.3" viewable size

Input signal  
 Video  
 Sync

Analog R.G.B 0.7vpp/75 ohm.  
 Separate or composite  
 Hor./Vert. TTL Pos./Neg.

Connector  
 Resolution (max.)  
 Scanning Freq.

D-sub 15-pin interface cable.  
 1024 X 768 (Non-interlaced)  
 Hor. 30KHz-50KHz  
 Vert. 50Hz-100Hz

Video B/W  
 Display size  
 User control

65MHz at -3dB  
 245mm X 180mm (Adjustable)  
 power ON/OFF, Select \ Up \ Down \ Right \ Left.  
 control function:  
 H-size, H-phase, V-size, V-center, Pincushion,  
 Trapezium Brightness, Contrast, Rotation.(Option)

Cabinet Dimension  
 Weight

385mm(L) X 359mm(W) X 366mm(H)  
 11.5 kg (25.3 Lb). Net.  
 13 kg (28.6 Lb). Gross.

Environment

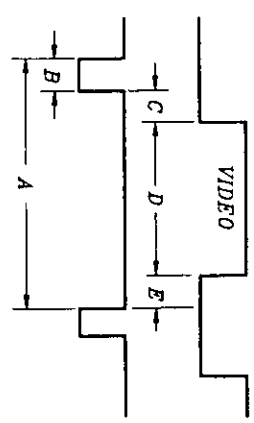
operation Temp. +5 °C - +40 °C  
 Humidity 20 % - 90 %  
 Storage Temp. -20 °C - +60 °C  
 Humidity 10 % - 95 %

# SECTION 4

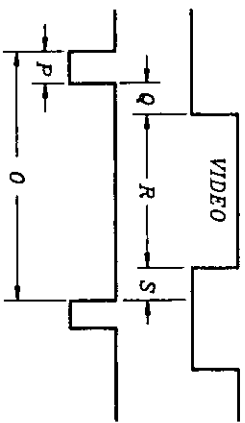
## Suggested Timing

This monitor is an auto-scanning monitor. There are 10 modes preset in micro-processor. The following are recommended timing we suggest.

HORIZONTAL



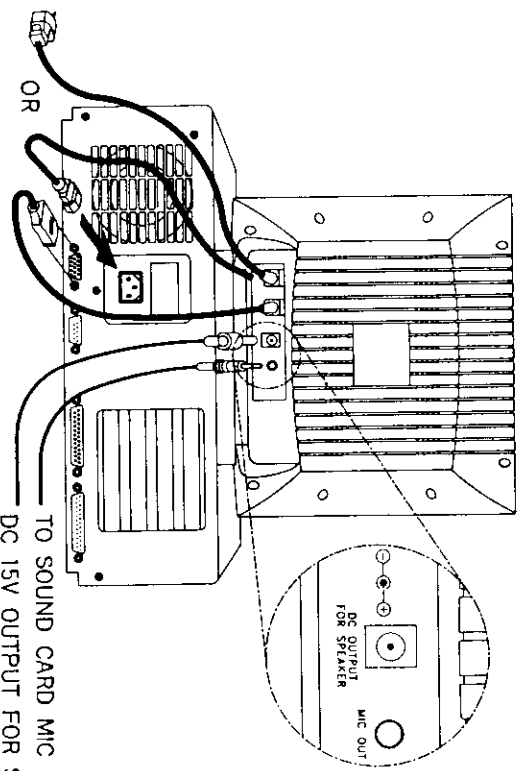
VERTICAL



## SECTION 5

### Monitor Connect

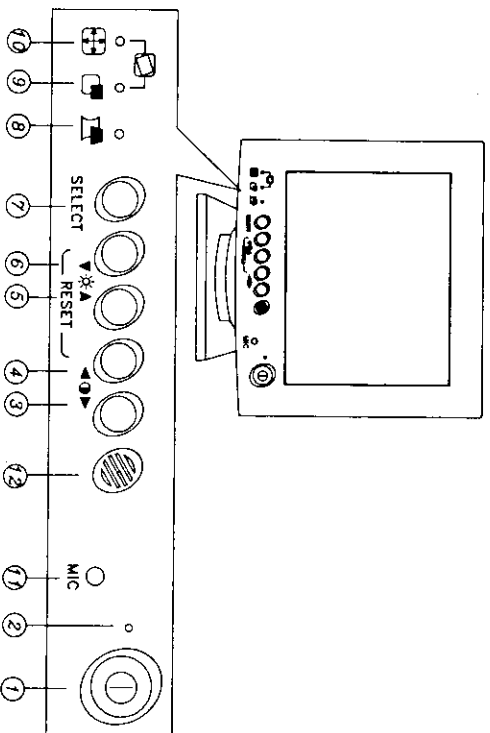
Presel Modes	Fh	Aus	Bus	Cus	Dus	Eus	Fv	Oms	Pms	Qms	Rms	Sms	Interlaced	H/V sync.
VGA 640 X 350	31.5KHz	31.778	3.810	1.589	26.058	0.318	70.1Hz	14.268	0.064	0.890	11.504	0.985	No	+ - -
VGA 720 X 400	31.5KHz	31.778	3.810	1.589	26.058	0.318	70.1Hz	14.268	0.064	0.890	13.156	0.159	No	- - - +
VGA 640 X 480	31.5KHz	31.778	3.810	1.589	26.058	0.318	59.9Hz	16.683	0.064	0.793	15.762	0.064	No	- - - -
MAC II 640 X 480	35.0KHz	28.571	2.116	3.175	21.164	2.116	66.7Hz	15.000	0.086	1.114	13.714	0.086	No	- (CS) -
SVGA 800 X 600	35.2KHz	28.444	2.000	3.556	22.222	0.667	56.3Hz	17.778	0.057	0.626	17.067	0.028	No	- - - -
IBM 8514A	35.5KHz	28.100	3.910	1.247	22.760	0.178	87.0Hz	11.500	0.112	0.563	10.824	0.014	Yes	+ - - +
VESA 640 X 480	37.9KHz	26.4	1.27	4.063	20.317	1.000	72.8Hz	13.734	0.079	0.740	12.678	0.026	No	- - - -
VESA 800 X 600	37.9KHz	26.400	3.200	2.200	20.000	1.000	60.3Hz	16.579	0.106	0.607	15.840	0.026	No	+ - - +
SVGA VESA	48.1KHz	20.794	2.400	1.280	16.000	1.120	72.0Hz	13.887	0.124	0.479	12.479	0.772	No	+ - - +
XGA 1024	48.4KHz	20.677	2.092	2.462	15.754	0.369	60.5Hz	16.666	0.124	0.600	15.880	0.062	No	+ - - +



1. Plug power cord into the PC power supply or into the wall outlet. A third wire cord is provided as a safety precaution to ensure proper electrical grounding.
2. Connect the 15-Pin D-type signal cable to the VGA-card connector. Lock the two screws to ensure firm grounding.
3. DC Output(Option)  
To connect the DC 15v output from monitor to speaker kits (MODEL AR200) and plug the jack into the DC output socket.

### Precautions---When using this monitor

- To avoid eyes fatigue, do not use the color monitor in bright background sunlight or other light sources shine directly on the screen.
- Set up in a good ventilated environment. The heat from the monitor dissipate properly.
- Keep the monitor away from high capacity transformer, electric motor, other strong magnetic field.
- The monitor should not be used in damp, dusty or dirty area.



## Operation

1. Power switch(①)  
Power on/off switch is a push-bottom type. Used to "power on" or "power off".
2. Power-on Indicator  
This indicator illuminates when the monitor power is turn on.
3. & 5. Adjust(▶)(▲)  
Used to increase parameter volume adjustment.
4. & 6. Adjust(◀)(▼)  
Used to decrease parameter volume adjustment.
7. Select  
The select key will be defined as "function control" field, which includes 6 function parameters by different LED. There are H-size, V-size, H-phase, V-center, pincushion, Trapezium, press "select" key user can address the function control.

8. & 9. & 10. Function Control Indicator  
Those indicator LED illuminates when the select key to press.
11. MIC Input(Optional)

An external microphone can be used instead of the built-in microphone plugging a microphone with a mini plug connector into the microphone jack.

### 12. Built-In Microphone(Optional)

To connect the built-in microphone, insert one end of the enclosed microphone cable into the MIC out jack of the monitor. Insert the other end of the MIC IN jack of the computer's sound card.

## Adjusting and programming

If the timing of display card you use is not the same as factory or input timing you may need to adjust your monitor.

- (a). Brightness and Contrast  
User can directly press adjust "▼" and "▲" in function LED B condition to adjust brightness. Also user can press "◀" & "▶" key adjust contrast directly.
- (b). Picture Size  
Press "select" key. The first LED on the left of the panel will steadily for approximately 6 seconds, then press "▼" and "▲" key V-size adjustment, press "◀" and "▶" key for H-size adjustment.
- (c). Picture shift(position)  
Press "select" key again. The second LED will light, then press "▲" and "▼" key for V-center adjustment. Press "◀" and "▶" key for phase adjustment.
- (d). Press "select" key again. The third LED will light, then press "▼" and "▲" key for Trapezium (Keystone) adjustment, press "◀" and "▶" key for pincushion adjustment.
- (e). Rotation (tilt):option  
Press "select" key again. The adjust function will go back to Item Rotation adjust is optional function. When first and second LED are light same time, press "▼" and "▲" key for Rotation adjustment.



## SECTION 6

**(f).** When adjust functions are going to min. or max. value. The function LED will be blink all the time.

**(g).** Reset

Press  $\downarrow$  down(  $\downarrow$  )+left(  $\leftarrow$  ) \* two keys the reset function is effective, meanwhile all of the parameters status will be return to original status set by factory, make new adjustment follow \* select \* & \* adjust \* keys to adjust each parameter. All the changes will be auto saved in user define area by function LED blank when finished be settings.

**(h).** Self-test

Press \* UP(  $\blacktriangle$  )+Right(  $\blacktriangleright$  ) \* two keys together, the monitor will do the autotest by itself. And user can make sure all the adjustable functions are working well or not. Press \* select \* key the self-test function will stopped.

There are 20 memory partitions which are used to memory 20 display modes including its timing formats and display setting.

Those memory divided equally to two area one for factory preset, and the other for user programmable area.

The user settings are stored one by one in the user area, when the number of settings exceed user area.

It will overlap from the first user setting by first in first out method.

## SECTION 7

### How To Test The Monitor

1. Turn off the monitor and the system unit.
2. Make sure the monitor power cord is plugged into the system or the outlet.
3. Disconnect the display signal cable from the system unit.
4. Turn on the power switch of the monitor and system unit.
5. Did the display power-on light come on?  
NO : Have the display serviced.  
YES : Continue with the next step.
6. Is the image shown present and stable?  
NO : Have the display serviced.  
YES : Continue with the next step.
7. Turn off the monitor.
8. Reconnect the monitor signal cable to the system unit.
9. Turn on the monitor and the system unit.
10. Look at the monitor screen is the screen blank(dark with no image)?  
YES : Have the system unit serviced.  
NO : Continue with the next step.
11. After the system unit completes the power on self test you should have normal display on the screen. Are you having any obvious display problem for example jittering, rolling, shifting or out of focus characters?  
YES : Have the display serviced.  
NO : Continue with the next step.
12. Are you having any problems with the contrast or brightness control?  
YES : Have the display serviced.  
NO : Have the system unit serviced.

## SECTION 8

### Install / Remove The Swivel Base

To attach the swivel base to the monitor, do the following :

1. Carefully turn the monitor on its side or upside-down.
2. Locate the cavities at the bottom of the monitor.
3. Insert the pegs " 3a " on the swivel base into these cavities.  
push firmly toward (CRT direction) the main unit until the latch "3b" at the bottom of the monitor clicks shut. This locks the swivel base to its place.
4. To remove the swivel base, use thumb push the " 3b " to disconnect the latch properly, push down firmly, and pull the base against the main unit.  
The base removes from the attached position.

