ExSite™ Series Explosionproof Positioning System

C1300M-B (6/05)

Contents

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

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 the 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:

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

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications CommissionÕs rules.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Welcome

Thank you for purchasing Pelco's ExSite™ IPSXM Series explosionproof positioning system. Your new system features a high resolution, camera/optics package with programmable software.

This manual is designed to be a reference tool for the operation and programming of your system. Inside you will find information about the features and commands of your IPSXM system, as well as a detailed menu tree.

MODELS

IPSXM30C22-2	Pan and tilt system with color camera, 60 Hz, 24 VAC
IPSXM30C22-2X	Pan and tilt system with color camera, 50 Hz, 24 VAC
IPSXM31C22-2	Same as IPSXM30C22-2, except supplied with window wiper
IPSXM31C22-2X	Same as IPSXM30C22-2X, except supplied with window wiper
IPSXM30CBW23-2	Pan and tilt system with day/night camera, 60 Hz, 24 VAC
IPSXM30CBW23-2X	Pan and tilt system with day/night camera, 50 Hz, 24 VAC
IPSXM31CBW23-2	Same as IPSXM30CBW23-2, except supplied with window wiper
IPSXM31CBW23-2X	Same as IPSXM30CBW23-2X, except supplied with window wiper
IPSXM30C22-7	Pan and tilt system with color camera, 60 Hz, 90-264 VAC
IPSXM30C22-7X	Pan and tilt system with color camera, 50 Hz, 90-264 VAC
IPSXM31C22-7	Same as IPSXM30C22-7, except supplied with window wiper
IPSXM31C22-7X	Same as IPSXM30C22-7X, except supplied with window wiper
IPSXM30CBW23-7	Pan and tilt system with day/night camera, 60 Hz, 90-264 VAC
IPSXM30CBW23-7X	Pan and tilt system with day/night camera, 50 Hz, 90-264 VAC
IPSXM31CBW23-7	Same as IPSXM30CBW23-7, except supplied with window wiper
IPSXM31CBW23-7X	Same as IPSXM30CBW23-7X, except supplied with window wiper

GETTING STARTED

You will need to install your system before using this manual. Refer to the installation manuals for instructions. Once installed apply power to the system. The system will begin a configuration sequence that starts with a limited back and forth pan motion (wiggling) for 2.5 minutes. The limited pan motion is a built-in safety feature to warn anyone at the installation site that the unit is on and to avoid contact with the unit during start up. To stop the limited pan motion press Iris Close. The system will continue its configuration sequence. When the system is done, the following information is displayed:

Pelco ExSite IPSXM
Version X.XX
D Address: 1
P Address: 2
Comm 2400, N, 8, 1

CONFIGURE DONE

This information will remain on the monitor until system operation begins. Refer to the following pages to learn how to operate and program your IPSXM Series positioning system.

⚠ **DANGER:** Do not connect the power module to a supply circuit unless all ExSite system components (pan and tilt, camera module and power module) are installed.

SET THE CALIBRATION POINT

Before programming presets, patterns, zones, labels, and window blanking, program and document the position calibration point (refer to *Position Calibration*). The purpose of the calibration point is to restore all programmed settings quickly in the event the unit is replaced or refurbished.

How to Operate Your System

Operation	How to Control
Pan and Tilt	Move joystick or press the direction keys left/right and up/down.
Zoom Far	To zoom far, do the following:
	1. Press the Zoom Tele button or turn the joystick clockwise until zoom stops at the *32X zoom limit*.
	2. Release the button or joystick for one second.
	3. To continue zooming (digitally), press the button or turn the joystick clockwise again until you have the picture you want or reach the *digital zoom** *limit*.
Zoom Wide	Press the Zoom Wide button or turn the joystick counterclockwise.
Scanning	
Stop Scan	Preset 96
Random Scan	Preset 97
Frame Scan	Preset 98
Auto Scan	Preset 99
Presets	Refer to the documentation supplied with the control system.
Patterns**	Refer to the documentation supplied with the control system.
Zones	Refer to the *Zones* section and to the documentation supplied with the control system.
Alarms	Refer to the *Alarms* section.

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*Digital zoom magnifies the image electronically and the picture may appear pixilated. The larger the digital zoom limit the greater the reduction in resolution.

**The unit cannot do electronic zoom in a pattern. Optical zoom will operate in a pattern.

ACCESSING MAIN MENU (PRESET 95)

You can call up the main menu on your monitor by programming (setting or creating) preset 95 (preset 28 if in AD32-preset mode).

Programming preset 95 for Pelco's controllers varies according to the type of controller you are using. Instructions for programming preset 95 are given below for various Pelco controllers.

CM6700/CM6800

1. Enter the number of the IPSXM system and press the CAM key.
2. Enter 95 and hold the PRESET key for two seconds.
3. In the Edit Preset menu, arrow to SET and press the ACK key. The main menu appears.

KBD200A/KBD300A (DIRECT MODE ONLY)

1. Enter 95.
2. Hold the PRESET key (approximately five seconds) until the main menu appears on the screen.

CM9500

1. Enter the number of the IPSXM system and press the CAM key. The Main menu appears.
2. Highlight SETUP in the Main menu and press the SELECT key.
3. Highlight CAM in the Setup menu and press the SELECT key.
4. Highlight PRESET in the Camera menu and press the SELECT key.
5. Enter 95 and press the F1 key. The main menu appears.

CM9740/CM9760/CM9770/CM9780

1. Press the ESCAPE key to open the Main menu. Select DEF. The Define Submenu appears.
2. Enter your four-digit PIN *if this is your first time entering this mode*.
3. Enter 95 and select PRST. The main menu appears on the monitor.
4. Select the Quit icon to return to the default menu.

KBD4000/KBD4002 (GENEX MULTIPLEXER)

1. Press the SPOT MONITOR key.
2. Enter the number of the IPSXM system and press the CAM key.
3. Enter 95, then hold the PRESET key (approximately five seconds) until the main menu appears on the screen.

MPT9500

Standard Coaxitron Mode
1. Enter 95 and press the PRESET SET key.
2. Position the asterisk in the YES row and press the F1 key. The main menu appears.

Extended Coaxitron or RS-485 Mode
1. Enter 95 and press the PRESET SET key.
2. Press the F2 key. The main menu appears.

PelcoNet

1. Check the Set box.
2. Click the preset 95 button. The main menu appears.

Presets

The following presets are reserved for special functions.

Preset	Function
33	Flip command (disabled)
86	Wiper
87	Washer
88	IR filter IN (color)
89	IR filter OUT (black-white)
90-91	Manual limit stops
92-93	Scan limit stops
95	Select main programming menu
96	Stop a scan
97	Random scanning
98	Frame scanning
99	Start auto scanning

NOTE: For American Dynamics controllers with only 32 presets, switch SW3-1 on the dome drive to the ON position. When SW3-1 is ON, preset

99 becomes 32	92 becomes 25
98 becomes 31	91 becomes 24
97 becomes 30	90 becomes 23
96 becomes 29	89 becomes 22
95 becomes 28	88 becomes 21
93 becomes 26	

If the limit stops are turned off, presets 23-26 can be used as regular presets.

PELCO EXSITE IPSXM
LANGUAGE
UNIT INVERSION

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT

Quick Programming Guide

95 PRESET
Access the main menu (preset 95). *See the Accessing Main Menu (Preset 95) section.*

Use the joystick to position the cursor beside menu selection. If your controller does not have a joystick, use the up or down key.

IRIS OPEN
Press Iris Open; the submenu/cursor moves to the right.

Move the joystick up or down to view selections. If your controller does not have a joystick, use the up or down key.

IRIS OPEN
Press Iris Open to make selection.

IRIS CLOSE
Press Iris Close to cancel selection.

ADDITIONAL
FREE MEMORY
LAST RESET
AZIMUTH ZERO OFFSET
MOTOR ACTIVE
CAMERA ACTIVE
FPGA VERSION
VIDEO LEVEL
CAMERA
<EAB>
<PMAB>

LANGUAGE 1
LANGUAGE 2
LANGUAGE 3
LANGUAGE 4
LANGUAGE 5
LANGUAGE 6

BACK
EXIT

SYSTEM INFORMATION
UNIT MODEL
POWER MODULE MEMORY
SOFTWARE VERSION
BIOS VERSION
FONT VERSION

COMM
D ADDRESS
P ADDRESS
CM9500 MODE
32 PRESET MODE
PROTOCOL

<ADDITIONAL>

BACK
EXIT

DISPLAY SETUP
PRESET LABEL
ZONE LABEL
ZOOM
AZMUTH/ELEVATION
DIRECTION
ALARM MESSAGE

<LABEL POSITION>
RESTORE FACTORY DEFAULTS

BACK
EXIT

LABEL POSITION
[ZONE LABEL- - - - - - -]
[PRESET LABEL- - - --]
[ALARM 1- - - - - -]

SAVE AND EXIT
CANCEL AND EXIT
HELP

XXX/-XXX
NE
XXX.XXX

UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT

POSITION CALIBRATION
PRESET NOT DEFINED

<EDIT PRESET SCENE>

<CLEAR CALIBRATION PRESET>
<RECAL USING CAL PRESET>

BACK
EXIT

REFERENCE INFORMATION
AZIMUTH
ELEVATION
ZOOM

CAMERA
TYPE OF LIGHTING
AUTO FOCUS
ZOOM LIMIT
ZOOM SPEED
LOW LIGHT LEVEL
IR CUT FILTER*
AUTO IR LEVEL*

<ADVANCED SETTINGS>

BACK
EXIT

MOTION
PROPORTIONAL PAN
PARK TIME (MINUTES)
PARK ACTION
SCAN SPEED (DEG/S)
PRESET FREEZE FRAME
LIMIT STOPS
<SET MANUAL STOPS>
<CLEAR MANUAL STOPS>
<SET SCAN STOPS>
<CLEAR SCAN STOPS>
<SET AZIMUTH ZERO>
<CLEAR AZIMUTH ZERO>

BACK
EXIT

POWER UP
POWER UP ACTION

BACK
EXIT

LYNE SYNC
LINE SYNC
LINE SYNC PHASE

BACK
EXIT

PRESETS
PRESET NUMBER

PRESET NOT DEFINED

<EDIT PRESET LABEL>
<EDIT PRESET SCENE>
<EDIT CAMERA SETTINGS>
<MOTION DETECTION>*

<CLEAR PRESETS>
<CLEAR CAMERA SETTINGS>

BACK
EXIT

PATTERNS
PATTERN NUMBER
<PROGRAM PATTERN>
<CLEAR PATTERN>

BACK
EXIT

REFERENCE INFORMATION
PATTERN USAGE
REMAINING

ZONES
ZONE NUMBER
ZONE NOT DEFINED

<EDIT ZONE LABEL>

<EDIT ZONE>
ZONE ENABLED
ZONE BLANKING

<CLEAR ZONE>

BACK
EXIT

WINDOW BLANKING
STYLE

BLANK ALL ABOVE
BLANK ALL BELOW

<SET WINDOWS>

BACK
EXIT

ALARMS
RESUME
SEQUENCE (SECS)
RESET DELAY (SECS)

<ALARM SETTINGS>

BACK
EXIT

WIPER**
WIPER CONTROL
WIPER MODE
WIPER DWELL (SECS)
WIPER TIME (MIN)

<SET WASHER SEQUENCE>

BACK
EXIT

AUX
AUX 1 MODE
DWELL TIME (SECS)

AUX 2 MODE
DWELL TIME (SECS)

BACK
EXIT

CLEAR
CLEAR ALL ZONES
CLEAR ALL PRESETS
CLEAR ALL PATTERNS
CLEAR ALL WINDOW BLANKING

RESTORE FACTORY DEFAULTS

BACK
EXIT

PASSWORD
ENABLE PASSWORD
<EDIT PASSWORD>

BACK
EXIT

ADVANCED SETTINGS
SHUTTER SPEED
AGC LIMIT
AUTO IRIS
AUTO IRIS LEVEL
AUTO IRIS PEAK
AUTO SHARPNESS
SHARPNESS LEVEL
AUTO WHITE BALANCE
R GAIN
B GAIN
BACKLIGHT COMP
VIDEO LEVEL
WIDE DYNAMIC RANGE*
BACK
EXIT

MOTION DETECTION*
MOTION DETECTION ENABLED
<EDIT DETECTION AREA>

ACTIVATE AUX
AUX TIME

BACK
EXIT

SET WINDOWS
WINDOW NUMBER

<EDIT WINDOW LOCATION>
<EDIT WINDOW ZOOM>

ENABLE WINDOW
REVERSE
CLEAR WINDOW

BACK
EXIT

ALARM SETTINGS
ALARM NUMBER

ALARM PRIORITY
ALARM ACTION
ACTIVATE AUX
ALARM CONTACT

BACK
EXIT

SET WASHER SEQUENCE
PRESET NOT DEFINED

<EDIT PRESET LABEL>
<EDIT PRESET SCENE>
<EDIT CAMERA SETTINGS>

WASHER TIME (SECS)
WIPER DELAY (SECS)
AUTO RETURN

<CLEAR PRESET>
<CLEAR CAMERA SETTINGS>

BACK
EXIT

EDIT THE PASSWORD
- - - - - - - - - - - - - - - - -
1234567890   OK
ABCDEFGHIJ   CANCEL
KLMNOPQRST
UZWXYZ.,-/   SPACE
abcdefghij   BACKSPACE
klmnopqrst
uvwxyz*;;

EDIT DETECTION AREA*
DETECTION AREA 1
LOCATION
SENSITIVITY

DETECTION AREA 2
LOCATION
SENSITIVITY

DETECTION AREA 3
LOCATION
SENSITIVITY

DETECTION AREA 4
LOCATION
SENSITIVITY

BACK
EXIT

---

* Available only with the 23X day/night camera.
** Available only with wiper models.

Language

```
        PELCO EXSITE IPSXM

LANGUAGE                   ENGLISH
UNIT INVERSION                 OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

The language for the on-screen menus is selectable. Available languages include English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, and Czechoslovakian. The factory default language is English.

To change the display language:

1. Use the joystick to position the cursor beside LANGUAGE.

2. Press Iris Open. The cursor moves to the right, beside the current, selected language.

3. Move the joystick up or down to view selections. Press Iris Open to enter selection. All on-screen menus are changed to the selected language.

Quick Programming Guide

(See Page 9)

Unit Inversion

```
            PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

Unit inversion reconfigures the system so that it operates normally when it is installed in an inverted postion. The following are the available settings for unit inversion.

OFF (default)   Use for normal installations (refer to Figure 1).

ON   Reconfigures the camera orientation and controller functions for inverted operation when the unit is installed in an inverted position (refer to Figure 1).

STANDARD
INSTALLATION

INVERTED
INSTALLATION
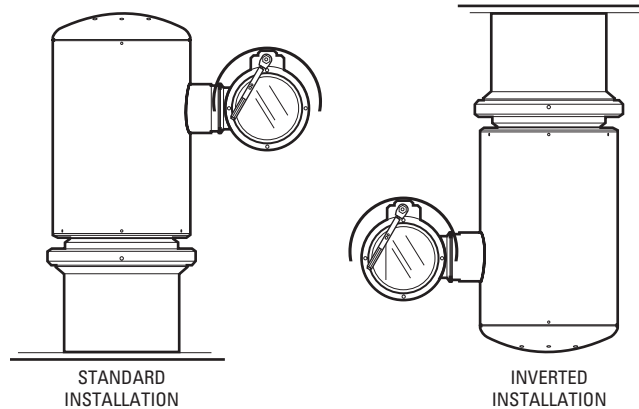
Figure 1. Installation Methods

To reconfigure the unit for inverted operation and control:

1. Use the joystick to position the cursor beside UNIT INVERSION.
2. Press Iris Open. The cursor moves to the right.
3. Move the joystick up or down to view selections. Press Iris Open to enter selection. The system will start a configuration sequence. When configuration is completed, the camera will be oriented in the correct position for the installation.

System Information

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

 <SYSTEM INFORMATION>
 <DISPLAY SETUP>
 <UNIT SETTINGS>
 <POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

↓

```
         SYSTEM INFORMATION

UNIT MODEL              1PSXM31CBW
POWER MODULE MEMORY      AVAILABLE
SOFTWARE VERSION         0.90.9013
BIOS VERSION            8.00.9000
FONT VERSION                  1.00

COMM                     2400,N,8,1
D ADDRESS                        1
P ADDRESS                        2
CM9500 MODE                    OFF
32 PRESETS                     OFF
PROTOCOL                         D

<ADDITIONAL>

BACK
EXIT
```

↓

```
            ADDITIONAL

FREE MEMORY                   30464
LAST RESET                        3
AZIMUTH ZERO OFFSET          0.00°
MOTOR ACTIVE                    YES
CAMERA ACTIVE                   YES
FPGA VERSION                      2
VIDEO LEVEL                    HIGH
CAMERA                    XXXX-XXXX
<EAB>*
<PMAB>**

LANGUAGE 1          ENGLISH 1.00
LANGUAGE 2          ESPANOL 1.00
LANGUAGE 3          ITALIANO 1.00
LANGUAGE 4          DEUTSCH 1.00
LANGUAGE 5        PORTUGUES 1.00
LANGUAGE 6         FRANCAIS 1.00
LANGUAGE 7            CESKY 1.00
LANGUAGE 8           POLSKI 1.00
LANGUAGE 9          RUSSIAN 1.00
LANGUAGE 10         TURKISH 1.00

BACK
EXIT
```

The system Information screen displays ExSite model, software version, available memory, and other diagnostic information.

System settings cannot be changed using this screen. This screen is for reference only.

Use the following steps to display the System Information screen:

1. Use the joystick to position the cursor beside SYSTEM INFORMATION.
2. Press Iris Open. The SYSTEM INFORMATION window opens.

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*EAB (Enclosure Accessory Board): The EAB information screen displays availability, version, and part number of the enclosure accessory board

**PMAB (Power Module Accessory Board): The PMAB information screen displays availability, version, and part number of the power module accessory board.

Quick Programming Guide

(See Page 9)

Display Setup

```
        PELCO EXSITE IPSXM
LANGUAGE                   ENGLISH
UNIT INVERSION                 OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
           DISPLAY SETUP
PRESET LABEL              2 (SECS)
ZONE LABEL               2 (SECS)
ZOOM                     2 (SECS)
AZIMUTH/ELEVATION        2 (SECS)
DIRECTION                    OFF
ALARM MESSAGE            2 (SECS)

<LABEL POSITIONS>
  RESTORE FACTORY DEFAULTS

BACK
EXIT
```

Display setup allows you to program how labels are displayed on the monitor. The following labels are available:

PRESET LABEL	Identifies preset.
ZONE LABEL	Identifies zone.
ZOOM	Identifies the amount of magnification.
AZIMUTH*/ ELEVATION**	Amount of pan from 0° and the amount of tilt from 0° horizontal.
DIRECTION	Displays compass direction.
ALARM MESSAGE	Displays activated alarm.

A preset label is displayed when a preset is called. A zone label is displayed when the system moves into a zone. The zoom ratio label is displayed when zoom is activated. Azimuth/elevation and direction labels are displayed when pan/tilt is activated. An alarm message appears on the monitor when an alarm occurs.

The following settings are available for each label:

OFF	Label is not displayed when activated.
CONSTANT	The label is continually displayed when activated.
2 SECONDS	The label is displayed for 2 seconds after activation.
5 SECONDS	The label is displayed for 5 seconds after activation.
10 SECONDS	The label is displayed for 10 seconds after activation.

*Azimuth is the pan angle from 0 to 359 degrees.

**Elevation is the tilt position from +90 (horizon) to -90 degrees.

LABEL POSITIONS

```
        PELCO EXSITE IPSXM

LANGUAGE                      ENGLISH
UNIT INVERSION                    OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
            DISPLAY SETUP

PRESET LABEL                 2 (SECS)
ZONE LABEL                   2 (SECS)
ZOOM                         2 (SECS)
AZIMUTH/ELEVATION            2 (SECS)
DIRECTION                        OFF
ALARM MESSAGE                2 (SECS)

<LABEL POSITIONS>
RESTORE FACTORY DEFAULTS

BACK
EXIT
```

```
[ZONE LABEL ------------]
[PRESET LABEL ------------]
[ALARM 1 ------------]


        SAVE AND EXIT
        CANCEL AND EXIT
        HELP


XXX°/-XX°   XXX.XX  [          ]
```
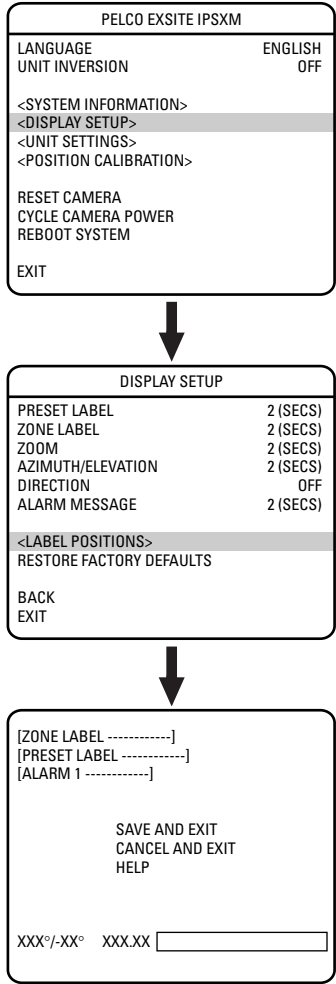
Labels can be placed anywhere on the monitor. This feature allows you to customize the appearance of your monitor screen.

The following labels are not set at fixed positions:

Preset Label
Zone Label
Alarm 1
Azimuth*/Elevation**: XXX°/-XX°
Zoom Ratio: XXX.XX
Direction: Compass direction is shown.

To set a label position:

1. Use the joystick to position the cursor beside a label.
2. Press Iris Open.
3. Use the joystick to move the label up, down, left, and/or right.
4. Press Iris Open.
5. Repeat steps 1 through 4 to position other labels.
6. Position the cursor next to Save and Exit. Press Iris Open to save settings and exit menu.

---

*Azimuth is the pan angle from 0 to 359 degrees.
**Elevation is the tilt position from +90 (horizon) to -90 degrees.

Quick Programming Guide

(See Page 9)

Unit Settings

CAMERA

```
┌─────────────────────────────────────┐
│        PELCO EXSITE IPSXM            │
│                                      │
│ LANGUAGE                    ENGLISH  │
│ UNIT INVERSION                  OFF  │
│                                      │
│ <SYSTEM INFORMATION>                 │
│ <DISPLAY SETUP>                      │
│ <UNIT SETTINGS>                      │
│ <POSITION CALIBRATION>               │
│                                      │
│ RESET CAMERA                         │
│ CYCLE CAMERA POWER                   │
│ REBOOT SYSTEM                        │
│                                      │
│ EXIT                                 │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│           UNIT SETTINGS              │
│                                      │
│ <CAMERA>                             │
│ <MOTION>                             │
│ <POWER UP>                           │
│ <LINE SYNC>                          │
│ <PRESETS>                            │
│ <PATTERNS>                           │
│ <ZONES>                              │
│ <WINDOW BLANKING>                    │
│ <ALARMS>                             │
│ <WIPER>                              │
│ <AUX>                                │
│ <CLEAR>                              │
│ <PASSWORD>                           │
│                                      │
│ BACK                                 │
│ EXIT                                 │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│              CAMERA                  │
│                                      │
│ TYPE OF LIGHTING           OUTDOOR   │
│ AUTO FOCUS                      ON   │
│ ZOOM LIMIT                    X184   │
│ ZOOM SPEED                  MEDIUM   │
│ LOW LIGHT LIMIT                  2   │
│ IR CUT FILTER*                AUTO   │
│   AUTO IR LEVEL*              DUSK   │
│                                      │
│ <ADVANCED SETTINGS>                  │
│                                      │
│ BACK                                 │
│ EXIT                                 │
└─────────────────────────────────────┘
```

* Available only with the 23X day/night camera.

TYPE OF LIGHTING

Pelco has calibrated settings that optimize the white balance, and the picture, for indoor and outdoor lighting conditions. There are two settings:

> OUTDOOR (default)
> INDOOR

AUTO FOCUS

Auto focus allows the lens to remain in focus during zoom-in, zoom-out, and motion functions.

There are two auto focus settings:

ON (default)	If auto focus mode is set to ON, the camera will focus automatically when using pan, tilt, and zoom functions.
Off	Focus is operated manually. To focus, press the Focus Far or Focus Near button on the controller.

ZOOM LIMIT

Zoom limit allows the user to define a limitation on the amount of telephoto zoom. The following are the zoom limit settings for the ExSite Series systems:

23X Day/Night Camera	Camera zooms optically to 23X and then zooms electronically. 32X, 92X,184X, or 230X. Default setting is 184X.
22X Color Camera	Camera zooms optically to 22X and then zooms electronically. 22X, 32X, 88X, 176X, 220X, or 264X. The default setting is 176X.

ZOOM SPEED

Zoom speed allows the user to define how fast the dome will go from full wide zoom to the 23X optical zoom. The default setting is MEDIUM.

Available settings for zoom speed include the following:

	22X COLOR	23X DAY/NIGHT
HIGH	2.4 seconds	2.9 seconds
MEDIUM (default)	3.9 seconds	4.2 seconds
LOW	6.3 seconds	5.8 seconds

NOTE: When using the HIGH setting, the image may be out of focus until zooming stops.

LOW LIGHT LIMIT

Low light limit is the maximum duration, in fractions of a second, that the electronic shutter will remain open in low light conditions. The default setting is 2.

Settings include the following:

2 = 1/2 second	8 = 1/8 second	30 = 1/30 second
4 = 1/4 second	15 = 1/15 second	60 = 1/60 second

```
┌─────────────────────────────────┐
│       PELCO EXSITE IPSXM        │
│ LANGUAGE              ENGLISH    │
│ UNIT INVERSION            OFF    │
│                                 │
│ <SYSTEM INFORMATION>            │
│ <DISPLAY SETUP>                 │
│ <UNIT SETTINGS>                 │
│ <POSITION CALIBRATION>          │
│                                 │
│ RESET CAMERA                    │
│ CYCLE CAMERA POWER              │
│ REBOOT SYSTEM                   │
│                                 │
│ EXIT                            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│         UNIT SETTINGS           │
│ <CAMERA>                        │
│ <MOTION>                        │
│ <POWER UP>                      │
│ <LINE SYNC>                     │
│ <PRESETS>                       │
│ <PATTERNS>                      │
│ <ZONES>                         │
│ <WINDOW BLANKING>               │
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│ <WIPER>                         │
│ <AUX>                           │
│ <CLEAR>                         │
│ <PASSWORD>                      │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│            CAMERA               │
│ TYPE OF LIGHTING      OUTDOOR    │
│ AUTO FOCUS                ON     │
│ ZOOM LIMIT              X184     │
│ ZOOM SPEED            MEDIUM     │
│ LOW LIGHT LIMIT           2     │
│ IR CUT FILTER*         AUTO     │
│   AUTO IR LEVEL*       DUSK     │
│                                 │
│ <ADVANCED SETTINGS>             │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
```

* Available only with the 23X day/night camera.

IR CUT FILTER (23X DAY/NIGHT CAMERA)

ExSite IPSXM has two modes of operation: color and black-white. You can increase sensitivity in low light conditions by switching to black-white mode (removing the IR cut filter). Color mode is preferred in normal lighting conditions.

The following are the settings for the IR cut filter:

OFF   Manual operation is controlled by preset 88 (filter IN) and 89 (filter OUT).

AUTO (default)   Automatic operation is controlled by the Auto IR Level setting.

Auto IR Level

The auto IR level is the light level at which the infrared filter switches IN or OUT.

Following are the available settings for the Auto IR Level:

DUSK (default)   approximately 6 lux (black - white)
         approximately 13 lux (color)

DARK   approximately 0.1 lux (black - white)
         approximately 2 lux (color)

NOTES:

- If backlight compensation is ON and the IR cut filter switches OUT in normal lighting conditions, adjust the Auto IR Level to a darker setting. Refer to the *Backlight Compensation* section.

- *Low light* does not mean *no light*. Some type of illumination is required (street light, IR light, etc.). The camera is not sensitive to IR light when the IR cut filter is IN.

Quick Programming Guide

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ADVANCED CAMERA SETTINGS

```
┌─────────────────────────────────┐
│       PELCO EXSITE IPSXM         │
│ LANGUAGE              ENGLISH     │
│ UNIT INVERSION           OFF     │
│                                  │
│ <SYSTEM INFORMATION>             │
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│ RESET CAMERA                     │
│ CYCLE CAMERA POWER               │
│ REBOOT SYSTEM                    │
│                                  │
│ EXIT                             │
└─────────────────────────────────┘
                  ↓
┌─────────────────────────────────┐
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│ <MOTION>                         │
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│ <LINE SYNC>                      │
│ <PRESETS>                        │
│ <PATTERNS>                       │
│ <ZONES>                          │
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│ <AUX>                            │
│ <CLEAR>                          │
│ <PASSWORD>                       │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
                  ↓
┌─────────────────────────────────┐
│             CAMERA               │
│ TYPE OF LIGHTING       OUTDOOR   │
│ AUTO FOCUS                  ON   │
│ ZOOM LIMIT                X184   │
│ ZOOM SPEED              MEDIUM   │
│ LOW LIGHT LIMIT              2   │
│ IR CUT FILTER*            AUTO   │
│   AUTO IR LEVEL*          DUSK   │
│                                  │
│ <ADVANCED SETTINGS>              │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
                  ↓
┌─────────────────────────────────┐
│        ADVANCED SETTINGS         │
│ SHUTTER SPEED            AUTO     │
│                                  │
│ AGC LIMIT                 28     │
│                                  │
│ AUTO IRIS               AUTO     │
│   AUTO IRIS LEVEL         91     │
│   AUTO IRIS PEAK          16     │
│                                  │
│ AUTO SHARPNESS            ON     │
│   SHARPNESS LEVEL         26     │
│                                  │
│ AUTO WHITE BALANCE        ON     │
│  R GAIN                  146     │
│  B GAIN                  294     │
│                                  │
│ BACKLIGHT COMP           OFF     │
│ VIDEO LEVEL             HIGH     │
│ WIDE DYNAMIC RANGE*      OFF     │
│                                  │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
```

* Available only with the 23X day/night camera.

SHUTTER SPEED

Shutter speed is the duration of the electronic shutter. Program shutter speed to operate automatically (Auto) or manually (Numeric Value).

AUTO (default)   The electronic shutter speed is set automatically by the amount of light sensed by the camera.

NUMERIC VALUE   The system has several numerical shutter speed settings. The higher the number, the faster the electronic shutter.

The slowest shutter speed setting is 2 = 1/2 second
The fastest setting is 30,000 = 1/30,000 second

Increasing the shutter speed lowers the light sensitivity and reduces the streaking of fast moving objects.

Set the shutter speed to 100 if you are using an NTSC camera in a 50 Hz environment. This will eliminate any flicker that may occur in the picture.

AGC LIMIT

AGC Limit allows users to adjust how the system balances AGC (automatic gain control) and electronic shutter in low light conditions. As scene lighting decreases, the system will automatically adjust, adding a mixture of AGC and slow shutter according to the AGC LIMIT setting. AGC LIMIT can be set between 0 and 40, with 40 applying maximum AGC before slow shutter. In contrast, setting AGC LIMIT to 0 will force the system software to apply maximum slow shutter (as defined by the LOW LIGHT LIMIT setting) before any AGC is applied. The default setting of 28 sets the AGC and slow shutter balance to favor AGC, yielding more real-time low light images.

The maximum slow shutter that the system will achieve is 1/2 second shutter (refer to the *Low Light Limit* section).

```
     PELCO EXSITE IPSXM
LANGUAGE                  ENGLISH
UNIT INVERSION                OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
        UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
           CAMERA
TYPE OF LIGHTING          OUTDOOR
AUTO FOCUS                     ON
ZOOM LIMIT                   X184
ZOOM SPEED                 MEDIUM
LOW LIGHT LIMIT                 2
IR CUT FILTER*               AUTO
  AUTO IR LEVEL*             DUSK

<ADVANCED SETTINGS>

BACK
EXIT
```

```
       ADVANCED SETTINGS
SHUTTER SPEED               AUTO

AGC LIMIT                     28

AUTO IRIS                   AUTO
  AUTO IRIS LEVEL             91
  AUTO IRIS PEAK             16

AUTO SHARPNESS                ON
  SHARPNESS LEVEL            26

AUTO WHITE BALANCE            ON
  R GAIN                    146
  B GAIN                    294

BACKLIGHT COMP              OFF
VIDEO LEVEL                 HIGH
WIDE DYNAMIC RANGE*         OFF


BACK
EXIT
```

* Available only with the 23X day/night camera.

AUTO IRIS

Auto iris is the lens function that automatically opens and closes the iris in response to changing light conditions.

Program the auto iris to operate automatically or at a user-defined level.

OFF   Auto iris is disabled, and control is always manual.

AUTO (default) The iris is adjusted automatically to produce a constant video output as determined by the Auto Iris Level setting.

If auto iris is in the auto mode, it will remain that way until the iris is manually opened or closed. The system will return to auto mode when it is panned or tilted more than 15 degrees.

Auto Iris Level

Auto iris level is the numeric value the auto iris uses to maintain the brightness level of the camera. Increase the value to brighten the scene. Decrease the level to darken the scene. This setting can be adjusted if the video level in the auto iris mode is too bright or too dark.

If backlight compensation is ON, decrease the Auto Iris Level setting.

Auto Iris Peak

Increasing the peak value will cause the auto iris circuit to react more to highlights or "peaks" in the picture. Decreasing this value will cause it to use the average video level to adjust the iris.

AUTO SHARPNESS

Auto sharpness enhances picture detail by increasing the aperture gain of the camera and sharpening the edges in the picture.

There are two settings:

ON (default)   The camera automatically maintains a normal sharpness mode.

OFF   The sharpness of the picture is set manually by programming the sharpness level. Sharpness level settings range from 0-63.

AUTO WHITE BALANCE

This feature automatically processes the viewed image to retain color balance over a color temperature range. The default setting for auto white balance is ON.

R GAIN   Adjusts the picture output in the red range. As you change the value, you will see the color change on your monitor.

B GAIN   Adjusts the picture output in the blue range. As you change the value, you will see the color change on your monitor.

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```
┌─────────────────────────────────┐
│        PELCO EXSITE IPSXM        │
│                                 │
│ LANGUAGE              ENGLISH   │
│ UNIT INVERSION           OFF    │
│                                 │
│ <SYSTEM INFORMATION>            │
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│ <UNIT SETTINGS>                 │
│ <POSITION CALIBRATION>          │
│                                 │
│ RESET CAMERA                    │
│ CYCLE CAMERA POWER              │
│ REBOOT SYSTEM                   │
│                                 │
│ EXIT                            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│          UNIT SETTINGS          │
│                                 │
│ <CAMERA>                        │
│ <MOTION>                        │
│ <POWER UP>                      │
│ <LINE SYNC>                     │
│ <PRESETS>                       │
│ <PATTERNS>                      │
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│ <AUX>                           │
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│ <PASSWORD>                      │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│            CAMERA               │
│                                 │
│ TYPE OF LIGHTING       OUTDOOR  │
│ AUTO FOCUS                ON    │
│ ZOOM LIMIT              X184    │
│ ZOOM SPEED            MEDIUM    │
│ LOW LIGHT LIMIT           2     │
│ IR CUT FILTER*          AUTO    │
│   AUTO IR LEVEL*        DUSK    │
│                                 │
│ <ADVANCED SETTINGS>             │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│       ADVANCED SETTINGS         │
│                                 │
│ SHUTTER SPEED          AUTO     │
│                                 │
│ AGC LIMIT                28     │
│                                 │
│ AUTO IRIS              AUTO     │
│   AUTO IRIS LEVEL        91     │
│   AUTO IRIS PEAK         16     │
│                                 │
│ AUTO SHARPNESS           ON     │
│   SHARPNESS LEVEL        26     │
│                                 │
│ AUTO WHITE BALANCE       ON     │
│   R GAIN               146      │
│   B GAIN               294      │
│                                 │
│ BACKLIGHT COMP          OFF     │
│ VIDEO LEVEL            HIGH     │
│ WIDE DYNAMIC RANGE*     OFF     │
│                                 │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
```

* Available only with the 23X day/night camera.

BACKLIGHT COMPENSATION (BLC)

If a bright backlight is present, the subjects in the picture may appear dark or as a silhouette. Backlight compensation enhances objects in the center of the picture. The system uses the center of the picture to adjust the iris. If there is a bright light source outside of this area, it will wash out to white. The camera will adjust the iris so that the object in the sensitive area is properly exposed.

There are two backlight compensation settings:

ON   Backlight compensation is activated.

OFF (default)   Backlight compensation is not activated.

If backlight compensation is ON, decrease the Auto Iris setting and adjust the Auto IR Level to a darker setting. Refer to the *Auto Iris* and *Auto IR Level* sections.

VIDEO LEVEL

Set the video output to one of the following:

NORMAL   1.0 volt peak-to-peak

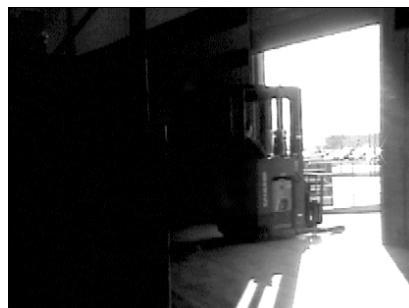HIGH (default setting)   1.2 volt peak-to-peak to compensate for losses in video cable.

WIDE DYNAMIC RANGE (23X DAY/NIGHT CAMERA)

The wide dynamic range (WDR) setting balances the brightest and darkest sections of a scene to produce a picture that is better balanced in lighting and provides more detail. The range from the darkest to the brightest sections of the scene is 80X more when WDR is ON than when OFF.

Available settings are OFF and ON. The default setting is OFF. When wide dynamic range is set to ON the frame rate is reduced from the standard 30 frames per second to 15 frames per second.
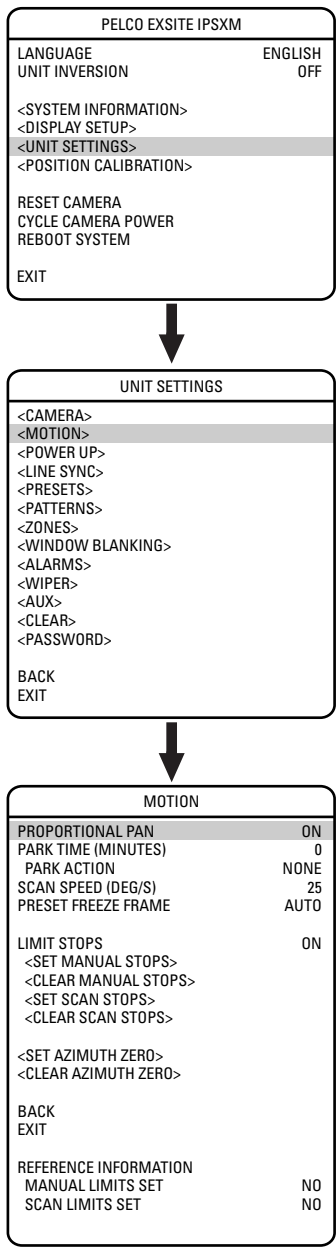

Wide Dynamic Range ON   **Wide Dynamic Range OFF**

MOTION

```
┌─────────────────────────────────────┐
│          PELCO EXSITE IPSXM          │
│                                      │
│  LANGUAGE                   ENGLISH  │
│  UNIT INVERSION                 OFF  │
│                                      │
│  <SYSTEM INFORMATION>                │
│  <DISPLAY SETUP>                     │
│  <UNIT SETTINGS>                     │
│  <POSITION CALIBRATION>              │
│                                      │
│  RESET CAMERA                        │
│  CYCLE CAMERA POWER                  │
│  REBOOT SYSTEM                       │
│                                      │
│  EXIT                                │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│            UNIT SETTINGS             │
│                                      │
│  <CAMERA>                            │
│  <MOTION>                            │
│  <POWER UP>                          │
│  <LINE SYNC>                         │
│  <PRESETS>                           │
│  <PATTERNS>                          │
│  <ZONES>                             │
│  <WINDOW BLANKING>                   │
│  <ALARMS>                            │
│  <WIPER>                             │
│  <AUX>                               │
│  <CLEAR>                             │
│  <PASSWORD>                          │
│                                      │
│  BACK                                │
│  EXIT                                │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│               MOTION                 │
│                                      │
│  PROPORTIONAL PAN               ON   │
│  PARK TIME (MINUTES)             0   │
│   PARK ACTION                 NONE   │
│  SCAN SPEED (DEG/S)             25   │
│  PRESET FREEZE FRAME          AUTO   │
│                                      │
│  LIMIT STOPS                    ON   │
│   <SET MANUAL STOPS>                 │
│   <CLEAR MANUAL STOPS>               │
│   <SET SCAN STOPS>                   │
│   <CLEAR SCAN STOPS>                 │
│                                      │
│  <SET AZIMUTH ZERO>                  │
│  <CLEAR AZIMUTH ZERO>                │
│                                      │
│  BACK                                │
│  EXIT                                │
│                                      │
│  REFERENCE INFORMATION               │
│   MANUAL LIMITS SET             NO   │
│   SCAN LIMITS SET               NO   │
└─────────────────────────────────────┘
```

PROPORTIONAL PAN

Proportional pan automatically reduces or increases the pan and tilt speeds in proportion to the amount of zoom. At telephoto zoom settings, the pan and tilt speeds will be slower for a given amount of joystick deflection than at wide zoom settings. This keeps the image from moving too fast on the monitor when there is a large amount of zoom.

There are two proportional pan modes:

ON (default)   Enables the proportional pan mode.

OFF   Disables proportional pan mode. The pan speed will not depend on the amount of zoom.

Quick Programming Guide

(See Page 9)

```
        PELCO EXSITE IPSXM

LANGUAGE                 ENGLISH
UNIT INVERSION               OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
            UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
               MOTION

PROPORTIONAL PAN              ON
PARK TIME (MINUTES)            0
 PARK ACTION               NONE
SCAN SPEED (DEG/S)            25
PRESET FREEZE FRAME        AUTO

LIMIT STOPS                   ON
 <SET MANUAL STOPS>
 <CLEAR MANUAL STOPS>
 <SET SCAN STOPS>
 <CLEAR SCAN STOPS>

<SET AZIMUTH ZERO>
<CLEAR AZIMUTH ZERO>

BACK
EXIT

REFERENCE INFORMATION
 MANUAL LIMITS SET            NO
 SCAN LIMITS SET             NO
```

PARK TIME

This feature allows the system to begin a specified operation (scan, preset, or pattern) after a programmed time of inactivity.

Park time can be programmed from 1 minute to 720 minutes (12 hours), or set to zero, which disables this feature. The default setting is zero.

Park Action

This feature will define the activity when the system parks. The following settings are available:

NONE (default)	No action.
AUTO SCAN	The system starts auto scan operation.
RANDOM SCAN	The system starts random scan operation.
FRAME SCAN	The system starts frame scan operation.
PRESET 1	The system goes to preset 1.
PRESET 8	The system goes to preset 8.
PATTERN 1	The system runs pattern 1.
PATTERN 2	The system runs pattern 2.
PATTERN 3	The system runs pattern 3.
PATTERN 4	The system runs pattern 4.

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
             MOTION

PROPORTIONAL PAN              ON
PARK TIME (MINUTES)            0
  PARK ACTION               NONE
SCAN SPEED (DEG/S)            25
PRESET FREEZE FRAME         AUTO

LIMIT STOPS                   ON
  <SET MANUAL STOPS>
  <CLEAR MANUAL STOPS>
  <SET SCAN STOPS>
  <CLEAR SCAN STOPS>

<SET AZIMUTH ZERO>
<CLEAR AZIMUTH ZERO>

BACK
EXIT

REFERENCE INFORMATION
  MANUAL LIMITS SET           NO
  SCAN LIMITS SET             NO
```

SCAN SPEED

Scan speed is the degrees per second that the system will pan when in scan mode. Scan speed is adjustable from 1 to 40 degrees per second through the programming menu. The default setting is 25 degrees per second.

PRESET FREEZE FRAME

This feature freezes the scene on the monitor when going to a preset. This allows for smooth transition from one preset scene to another. Preset freeze frame also reduces bandwidth when used with digital network systems such as PelcoNet™ and guarantees that blanked areas will not be revealed when going to a preset.

There are three preset freeze frame settings:

ON   The image on the screen freezes when a preset is called. When the system reaches the preset, the image is unfrozen and the preset scene is displayed.

OFF   The image is never frozen.

AUTO (default)   Freeze frame is turned on automatically if window blanking is ON. If window blanking is OFF, freeze frame is off.

Quick Programming Guide

95 PRESET

(See Page 9)

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
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<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
             MOTION

PROPORTIONAL PAN               ON
PARK TIME (MINUTES)             0
 PARK ACTION                 NONE
SCAN SPEED (DEG/S)             25
PRESET FREEZE FRAME          AUTO

LIMIT STOPS                    ON
 <SET MANUAL STOPS>
 <CLEAR MANUAL STOPS>
 <SET SCAN STOPS>
 <CLEAR SCAN STOPS>

<SET AZIMUTH ZERO>
<CLEAR AZIMUTH ZERO>

BACK
EXIT

REFERENCE INFORMATION
 MANUAL LIMITS SET             NO
 SCAN LIMITS SET               NO
```

LIMIT STOPS

Limit stops are programmable stops that limit the pan range of the unit. There must be two limits, a left and a right, to define an area.

There are two types of limit stops:

MANUAL   A manual (joystick) pan operation stops when a limit stop is reached.

SCAN   The system reverses direction during random, frame, or auto scanning when a limit stop is reached.

To set manual or scan stops:

1.   Use the joystick to position the cursor beside SET MANUAL STOPS or SET SCAN STOPS.
2.   Press Iris Open.
3.   Follow the directions displayed on the monitor.

NOTE: In order for the manual or scan stops to work, the LIMIT STOPS setting must be ON.

To clear manual or scan stops:

1.   Use the joystick to position the cursor beside CLEAR MANUAL STOPS or CLEAR SCAN STOPS.
2.   Press Iris Open.
3.   Follow the directions displayed on the monitor.

```
┌─────────────────────────────────┐
│       PELCO EXSITE IPSXM         │
│                                  │
│ LANGUAGE              ENGLISH    │
│ UNIT INVERSION            OFF    │
│                                  │
│ <SYSTEM INFORMATION>             │
│ <DISPLAY SETUP>                  │
│ <UNIT SETTINGS>                  │
│ <POSITION CALIBRATION>           │
│                                  │
│ RESET CAMERA                     │
│ CYCLE CAMERA POWER               │
│ REBOOT SYSTEM                    │
│                                  │
│ EXIT                             │
└─────────────────────────────────┘
                │
                ▼
┌─────────────────────────────────┐
│          UNIT SETTINGS           │
│                                  │
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│ <MOTION>                         │
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│ <PRESETS>                        │
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│ <ZONES>                          │
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│ <CLEAR>                          │
│ <PASSWORD>                       │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
                │
                ▼
┌─────────────────────────────────┐
│             MOTION               │
│                                  │
│ PROPORTIONAL PAN           ON    │
│ PARK TIME (MINUTES)         0    │
│  PARK ACTION             NONE    │
│ SCAN SPEED (DEG/S)         25    │
│ PRESET FREEZE FRAME      AUTO    │
│                                  │
│ LIMIT STOPS                ON    │
│  <SET MANUAL STOPS>              │
│  <CLEAR MANUAL STOPS>            │
│  <SET SCAN STOPS>                │
│  <CLEAR SCAN STOPS>              │
│                                  │
│ <SET AZIMUTH ZERO>               │
│ <CLEAR AZIMUTH ZERO>             │
│                                  │
│ BACK                             │
│ EXIT                             │
│                                  │
│ REFERENCE INFORMATION            │
│  MANUAL LIMITS SET         NO    │
│  SCAN LIMITS SET           NO    │
└─────────────────────────────────┘
```

AZIMUTH ZERO

Azimuth is the pan angle from 0 to 359 degrees. Azimuth zero is the pan position you specify to be the 0-degree point. Azimuth zero is normally set to magnetic north. Once set, azimuth and compass readings are based on the set Azimuth Zero point.

To program azimuth zero:

1. Use the joystick to position the cursor beside SET AZIMUTH ZERO.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

To clear azimuth zero:

1. Use the joystick to position the cursor beside CLEAR AZIMUTH ZERO.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

Quick Programming Guide

95 PRESET | IRIS OPEN | IRIS OPEN

(See Page 9)

POWER UP

```
┌─────────────────────────────────┐
│      PELCO EXSITE IPSXM          │
│ LANGUAGE              ENGLISH    │
│ UNIT INVERSION            OFF    │
│                                 │
│ <SYSTEM INFORMATION>            │
│ <DISPLAY SETUP>                 │
│ <UNIT SETTINGS>                 │
│ <POSITION CALIBRATION>          │
│                                 │
│ RESET CAMERA                    │
│ CYCLE CAMERA POWER              │
│ REBOOT SYSTEM                   │
│                                 │
│ EXIT                            │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│        UNIT SETTINGS            │
│ <CAMERA>                        │
│ <MOTION>                        │
│ <POWER UP>                      │
│ <LINE SYNC>                     │
│ <PRESETS>                       │
│ <PATTERNS>                      │
│ <ZONES>                         │
│ <WINDOW BLANKING>               │
│ <ALARMS>                        │
│ <WIPER>                         │
│ <AUX>                           │
│ <CLEAR>                         │
│ <PASSWORD>                      │
│                                 │
│ BACK                            │
│ EXIT                            │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│          POWER UP               │
│ POWER UP ACTION          AUTO   │
│                                 │
│ BACK                            │
│ EXIT                            │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
└─────────────────────────────────┘
```
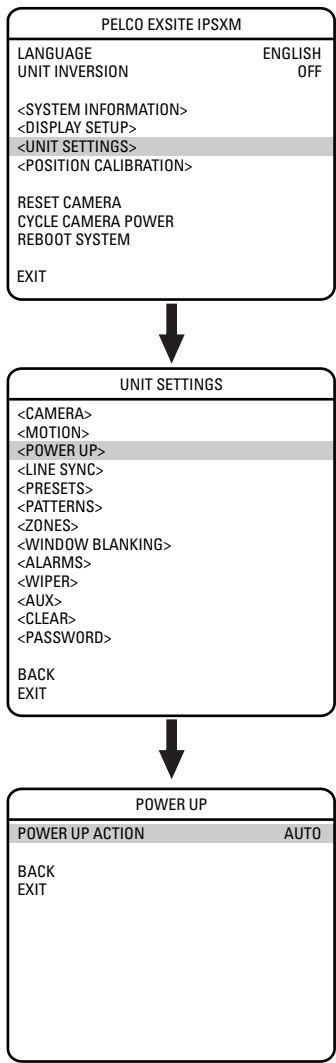
POWER UP ACTION

This setting defines a specific activity (scan, preset, pattern) to be performed in the event the power to the system is cycled.

The following settings are available:

NONE	No action.
AUTO (DEFAULT)	The system resumes its prior activity or direction before the power outage.
AUTO SCAN	The system starts auto scan operation.
RANDOM SCAN	The system starts random scan operation.
FRAME SCAN	The system frame scan operation.
PRESET 1	The system to preset 1.
PRESET 8	The system to preset 8.
PATTERN 1	The system pattern 1.
PATTERN 2	The system pattern 2.
PATTERN 3	The system pattern 3.
PATTERN 4	The system pattern 4.

LINE SYNC

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            LINE SYNC

LINE SYNC                        ON
   LINE SYNC PHASE                0

BACK
EXIT
```

Line sync refers to a programmable function that allows you to synchronize all cameras within a matrix system.

NOTE: ExSite IPSXM automatically senses V-Sync input. No line sync setup is required for Pelco control systems that provide a V-Sync signal.

For matrix systems that do not output V-Sync, there are two settings for line synchronization:

ON (default)   Adjusts the phase of the line sync to synchronize input power. LINE SYNC PHASE settings range from 0-359 degrees.

OFF   The system synchronizes to an internal clock.

Quick Programming Guide

(See Page 9)

PRESETS

```
        PELCO EXSITE IPSXM

LANGUAGE                   ENGLISH
UNIT INVERSION                 OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
         UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            PRESETS

PRESET NUMBER                    1
      ***PRESET NOT DEFINED***

<EDIT PRESET LABEL>
<EDIT PRESET SCENE>
<EDIT CAMERA SETTINGS>
<MOTION DETECTION>*

<CLEAR PRESET>
<CLEAR CAMERA SETTINGS>

BACK
EXIT

REFERENCE INFORMATION
  AZIMUTH                       --
  ELEVATION                     --
  ZOOM                          --
CUSTOM CAMERA SETTINGS          --
```

* Available only with the 23X day/night camera.

The ExSite IPSXM system has 80 programmable preset positions. Each preset can be programmed to use pan, tilt, all programmable camera settings, and motion detection.

The presets are numbered 1-32 and 35-82. Presets 33 and 34 are fixed commands that cannot be programmed. Preset 33 is disabled in the ExSite IPSXM. Preset 34 is the "pan zero" command, which will direct the unit to the factory-determined zero reference point.

Use the following steps to program a preset.

1. Select the preset number:
   a. Use the joystick to position the cursor beside PRESET NUMBER. Press Iris Open. The cursor moves to the right.
   b. Move the joystick up or down to view selections. Press Iris Open to enter selection.

2. Edit the preset label:
   a. Use the joystick to position the cursor beside EDIT PRESET LABEL.
   b. Press Iris Open. The following appears on the monitor:

```
LABEL FOR PRESET
PRESET NUMBER _ _ _ _ _ _
1234567890                    OK
ABCDEFGHIJ               CANCEL
KLMNOPQRST
UVWXYZ.,-/                  SPACE
abcdefghij             BACKSPACE
klmnopqrst
uvwxyz*;:
```

   c. Use the joystick to position the cursor beside a character. Press Iris Open to enter the selection. To clear a character, position the cursor beside BACKSPACE, and then press Iris Open.
   d. When the label is completed, move the cursor to OK. Press Iris Open to return to the Preset menu.

3. Edit the preset scene:
   a. Use the joystick to position the cursor beside EDIT PRESET SCENE.
   b. Press Iris Open.
   c. Follow the directions displayed on the monitor.

4. Edit preset camera settings:
   a. Use the joystick to position the cursor beside EDIT CAMERA SETTINGS.
   b. Press Iris Open. The EDIT CAMERA SETTINGS window appears on the monitor. Refer to the *Camera* and *Advanced Camera Settings* sections of this manual to change preset camera settings.

NOTES:

- There are two additional options available for the IR Cut Filter that are only available when programming a preset. The additional settings are YES and NO. If the IR Cut Filter is set to YES, the preset scene will be in color. If the IR Cut Filter is set to NO, the preset scene will be in black and white.

- You can copy camera settings from one preset to another preset. To copy camera settings do the following:
  1) Use the joystick to position the cursor beside COPY CAMERA SETTINGS.
  2) Press Iris Open. The cursor moves to the right.
  3) Move the joystick up or down to view selections. Press Iris Open to enter selection.

```
┌─────────────────────────────────┐
│      PELCO EXSITE IPSXM          │
│ LANGUAGE              ENGLISH    │
│ UNIT INVERSION           OFF     │
│                                  │
│ <SYSTEM INFORMATION>             │
│ <DISPLAY SETUP>                  │
│ <UNIT SETTINGS>                  │
│ <POSITION CALIBRATION>           │
│                                  │
│ RESET CAMERA                     │
│ CYCLE CAMERA POWER               │
│ REBOOT SYSTEM                    │
│                                  │
│ EXIT                             │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│        UNIT SETTINGS             │
│ <CAMERA>                         │
│ <MOTION>                         │
│ <POWER UP>                       │
│ <LINE SYNC>                      │
│ <PRESETS>                        │
│ <PATTERNS>                       │
│ <ZONES>                          │
│ <WINDOW BLANKING>                │
│ <ALARMS>                         │
│ <WIPER>                          │
│ <AUX>                            │
│ <CLEAR>                          │
│ <PASSWORD>                       │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│          PRESETS                 │
│ PRESET NUMBER             1      │
│       ***PRESET NOT DEFINED***   │
│                                  │
│ <EDIT PRESET LABEL>              │
│ <EDIT PRESET SCENE>              │
│ <EDIT CAMERA SETTINGS>           │
│ <MOTION DETECTION>*              │
│                                  │
│ <CLEAR PRESET>                   │
│ <CLEAR CAMERA SETTINGS>          │
│                                  │
│ BACK                             │
│ EXIT                             │
│                                  │
│ REFERENCE INFORMATION            │
│   AZIMUTH                 --     │
│   ELEVATION               --     │
│   ZOOM                    --     │
│ CUSTOM CAMERA SETTINGS    --     │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│      MOTION DETECTION*           │
│ MOTION DETECTION ENABLED   OFF   │
│ <EDIT DETECTION AREAS>           │
│                                  │
│ ACTIVATE AUX               OFF   │
│ AUX TIME (SECS)             0     │
│                                  │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
```

* Available only with the 23X day/night camera.

ENABLE MOTION DETECTION (23X DAY/NIGHT CAMERA)

The following are the settings for MOTION DETECTION ENABLED:

OFF (default)   Motion detection is turned off (disabled).

ON   Motion detection is turned on (enabled).

NOTE: Motion detection does not work if the shutter speed is set at less than 1/60 of a second.

EDIT DETECTION AREAS (23X DAY/NIGHT CAMERA)

Four motion detection areas can be defined for a preset. Use the following steps to edit motion detection areas.

1. Edit detection areas 1, 2, 3, or 4:
   a. Use the joystick to position the cursor beside EDIT DETECTION AREAS.
   b. Press Iris Open. The EDIT DETECTION AREAS programming window appears on the monitor.
   c. Use the joystick to position the cursor beside LOCATION for DETECTION AREA 1, 2, 3, or 4.
   d. Press Iris Open. The cursor moves to the right next to the number 0.
   e. Move the joystick *up*. A blue rectangle appears in the upper left-hand corner of the screen.
   f. Use the joystick to place the blue rectangle over the desired detection area.
   g. Press Iris Open to make a selection.

NOTE: Motion detection is not guaranteed to catch 100% of activity.

MOTION DETECTION AREAS
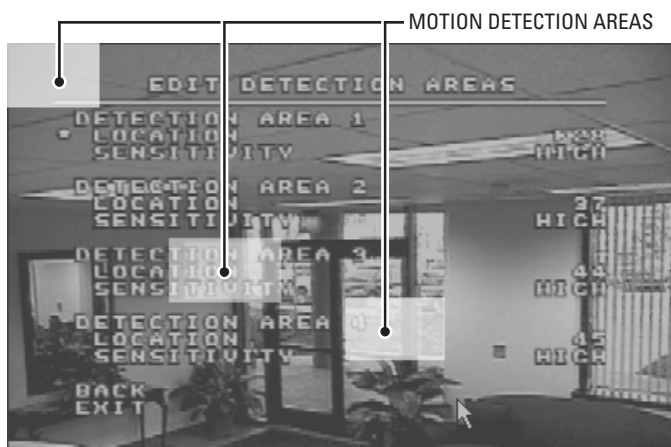
2. Set the sensitivity of the motion detection area:
   a. Position the cursor next to SENSITIVITY for DETECTION AREA 1, 2, 3, or 4.
   b. Press Iris Open, the cursor moves to the right.
   c. Use the joystick to select one of the following sensitivity levels:

```
┌─────────────────────────────────┐
│     EDIT DETECTION AREAS*        │
│ DETECTION AREA 1                 │
│   LOCATION                 0     │
│   SENSITIVITY          MEDIUM    │
│ DETECTION AREA 2                 │
│   LOCATION                 0     │
│   SENSITIVITY          MEDIUM    │
│ DETECTION AREA 3                 │
│   LOCATION                 0     │
│   SENSITIVITY          MEDIUM    │
│ DETECTION AREA 4                 │
│   LOCATION                 0     │
│   SENSITIVITY          MEDIUM    │
│ BACK                             │
│ EXIT                             │
└─────────────────────────────────┘
```

   HIGH   The sensitivity level is high. Slight changes in light level and contrast are detectable.

   MEDIUM (default)   Average sensitivity.

   LOW   The sensitivity level is low.

   d. Press Iris Open to make selection.

Quick Programming Guide

(See Page 9)

```
    ┌─────────────────────────────────┐
    │       PELCO EXSITE IPSXM        │
    │ LANGUAGE              ENGLISH    │
    │ UNIT INVERSION           OFF     │
    │                                  │
    │ <SYSTEM INFORMATION>             │
    │ <DISPLAY SETUP>                  │
    │ <UNIT SETTINGS>                  │
    │ <POSITION CALIBRATION>           │
    │                                  │
    │ RESET CAMERA                     │
    │ CYCLE CAMERA POWER               │
    │ REBOOT SYSTEM                    │
    │                                  │
    │ EXIT                             │
    └─────────────────────────────────┘
```

ACTIVATE AUX COMMAND (23X DAY/NIGHT CAMERA)

Motion detection can be programmed to trigger an auxiliary command when motion is detected. The following are the settings for ACTIVATE AUX:

OFF (default)	Motion detection will not trigger an AUX command.
1	Triggers a command to AUX 1.
2	Triggers a command to AUX 2.

AUX TIME (23X DAY/NIGHT CAMERA)

Aux time is the length of time the auxiliary will remain on after motion is detected. Available settings for AUX TIME are 1 through 60 seconds.

```
    ┌─────────────────────────────────┐
    │        UNIT SETTINGS            │
    │ <CAMERA>                         │
    │ <MOTION>                         │
    │ <POWER UP>                       │
    │ <LINE SYNC>                      │
    │ <PRESETS>                        │
    │ <PATTERNS>                       │
    │ <ZONES>                          │
    │ <WINDOW BLANKING>                │
    │ <ALARMS>                         │
    │ <WIPER>                          │
    │ <AUX>                            │
    │ <CLEAR>                          │
    │ <PASSWORD>                       │
    │                                  │
    │ BACK                             │
    │ EXIT                             │
    └─────────────────────────────────┘

    ┌─────────────────────────────────┐
    │          PRESETS                │
    │ PRESET NUMBER               1    │
    │       ***PRESET NOT DEFINED***   │
    │                                  │
    │ <EDIT PRESET LABEL>              │
    │ <EDIT PRESET SCENE>              │
    │ <EDIT CAMERA SETTINGS>           │
    │ <MOTION DETECTION>*              │
    │                                  │
    │ <CLEAR PRESET>                   │
    │ <CLEAR CAMERA SETTINGS>          │
    │                                  │
    │ BACK                             │
    │ EXIT                             │
    │                                  │
    │ REFERENCE INFORMATION            │
    │  AZIMUTH                    --   │
    │  ELEVATION                  --   │
    │  ZOOM                       --   │
    │ CUSTOM CAMERA SETTINGS      --   │
    └─────────────────────────────────┘

    ┌─────────────────────────────────┐
    │       MOTION DETECTION*         │
    │ MOTION DETECTION ENABLED    OFF  │
    │ <EDIT DETECTION AREAS>           │
    │                                  │
    │ ACTIVATE AUX                OFF  │
    │ AUX TIME (SECS)              0   │
    │                                  │
    │ BACK                             │
    │ EXIT                             │
    │                                  │
    │                                  │
    │                                  │
    └─────────────────────────────────┘
```

* Available only with the 23X day/night camera.

PATTERNS

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            PATTERNS

PATTERN NUMBER                    1
<PROGRAM PATTERN>
<CLEAR PATTERN>

BACK
EXIT

REFERENCE INFORMATION
  PATTERN USAGE                  0%
  REMAINING                    100%
```
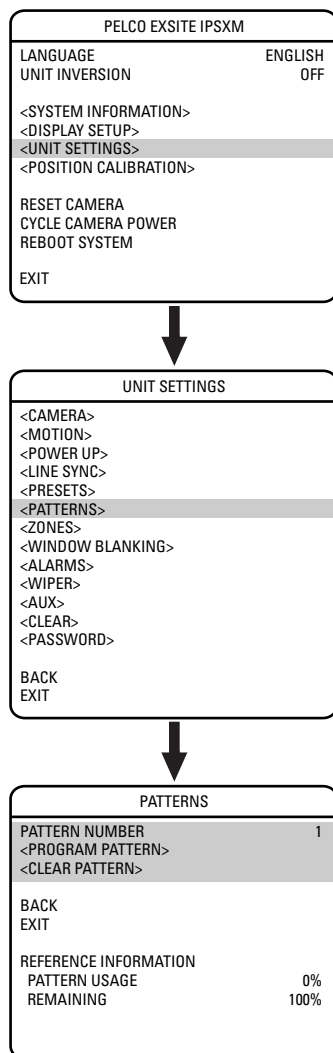
A pattern is a memorized, repeating, series of pan, tilt, zoom and preset functions that can be recalled with a command from a controller or automatically by a programmed function (alarm, park or power-up).

The ExSite IPSXM can handle up to four user-defined patterns. Pattern length is based upon memory usage rather than a fixed amount of time. The complexity of a pattern will determine the amount of storage available to program other patterns.

To program a pattern:

1. Use the joystick to position the cursor beside PATTERN NUMBER. Press Iris Open. The cursor moves to the right.
2. Move the joystick up or down to view selections. Press Iris Open to enter selection.
3. Use the joystick to position the cursor beside PROGRAM PATTERN.
4. Press Iris Open. The Patterns programming window appears on the monitor.
5. Follow the directions displayed on the monitor.

After a pattern is programmed, the remaining storage percentage is displayed on the screen. This is the amount of memory available to program the remaining patterns.

To clear a pattern:

1. Use the joystick to position the cursor beside CLEAR PATTERN.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

NOTES:

*   When programming one or more presets within a pattern use the normal controller commands to Call a Preset.
*   Not all controllers can start all four patterns. However, any of the four patterns can be automatically started with park, power-up, and alarm functions.

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95 PRESET / joystick / IRIS OPEN / joystick / IRIS OPEN

(See Page 9)

ZONES

```
        PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
           UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
              ZONES
ZONE NUMBER                       1
        ***ZONE NOT DEFINED***

<EDIT ZONE LABEL>

<EDIT ZONE>
ZONE ENABLED                     NO
ZONE BLANKING                    OFF

<CLEAR ZONE>

BACK
EXIT
```

A zone is a pan area, defined by a left and right limit, on the 360-degree pan plane. The IPSXM positioning system is capable of eight zones, each with a 20-character label.

To program a zone:

1. Use the joystick to position the cursor beside ZONE NUMBER. Press Iris Open the cursor moves to the right.

2. Move the joystick up or down to view selections. Press Iris Open to enter selection.

3. Use the joystick to position the cursor beside EDIT ZONE.

4. Press Iris Open. The Zone programming window appears on the monitor.

5. Follow the directions displayed on the monitor. After the left and right limit stops are set, the Zones menu reappears with the ZONE ENABLED option set to YES.

To edit a zone label:

1. Use the joystick to position the cursor beside EDIT ZONE LABEL.

2. Press Iris Open. The following appears on the monitor:

```
LABEL FOR PRESET
PRESET NUMBER _ _ _ _ _ _
1234567890                    OK
ABCDEFGHIJ                CANCEL
KLMNOPQRST
UVWXYZ.,-/                  SPACE
abcdefghij             BACKSPACE
klmnopqrst
uvwxyz*;:
```

3. Use the joystick to position the cursor beside a character. Press Iris Open to enter selection. To clear a character, position the cursor beside BACKSPACE, and then press Iris Open.

4. When the label is completed, move the cursor to OK. Press Iris Open to return to the Zones menu.

To disable a zone (a zone is enabled automatically when it is programmed) or to blank a zone:

1. Move the cursor beside ZONE ENABLED or ZONE BLANKING.

2. Press Iris Open. The cursor moves to the right.

3. Move the joystick up or down to view selections. Press Iris Open to enter selection.

To clear a zone:

1. Use the joystick to position the cursor beside CLEAR ZONE.

2. Press Iris Open. Follow the instructions on the screen.

WINDOW BLANKING

```
      PELCO EXSITE IPSXM

LANGUAGE                     ENGLISH
UNIT INVERSION                   OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
        UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
       WINDOW BLANKING

STYLE                          GRAY

BLANK ALL ABOVE                 OFF
BLANK ALL BELOW                 OFF

<SET WINDOWS>


BACK
EXIT
```

```
         SET WINDOWS

WINDOW NUMBER                      1

<EDIT WINDOW LOCATION>
<EDIT WINDOW ZOOM>

ENABLE WINDOW                    NO
REVERSE
CLEAR WINDOW

BACK
EXIT
```

Window blanking allows a user to program up to eight, four-sided, user-defined areas that cannot be viewed by the operator of the system. A blanked area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.

ExSite IPSXM has two style modes for window blanking, GRAY and SMEAR. If style is set to gray, the blanked area is covered with a solid gray window. If smear is selected images behind the window will be noticeable but not distinguishable.

To set a window blanking area:

1. Use the joystick to position the cursor beside WINDOW BLANKING. Press Iris Open. The WINDOW BLANKING menu appears on the screen.

2. Move the joystick to position the cursor beside SET WINDOWS. Press Iris Open to enter.

3. Position the cursor beside WINDOW NUMBER. Press Iris Open. The cursor moves to the right.

4. Move the joystick up or down to view selections. Press Iris Open to enter selection.

5. Use the joystick to position the cursor beside EDIT WINDOW LOCATION. Press Iris Open, and then follow the instructions that appear on the screen.

NOTE: Use the inside corner of the window selection tool as a guide when selecting the upper left, upper right, bottom right, and bottom left corners of the window.

INSIDE CORNER
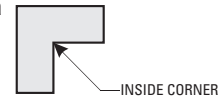
Set windows are not visible when editing a new window location.

When all four corners are set, the SET WINDOWS menu reappears, the blanked area is displayed, and the ENABLE WINDOW option is set to YES.

6. The blanked area can be programmed to turn on or off at a specified zoom point. To set the zoom point:
   a. Use the joystick to position the cursor beside EDIT WINDOW ZOOM, and then press Iris Open.
   b. Zoom in to the point where you want window blanking to turn on. Press Iris Open to set the zoom point.

NOTES:

• Since the area is already blanked out, it may be difficult to determine when you want window blanking to turn on. Reverse the window before setting the zoom point. When finished reverse the window again to blank out the area.

• Increase the size of the window if any part of the blanked area is revealed during pan, tilt, and zoom operations.

Window Blanking Disabled

Window Blanking Enabled

Quick Programming Guide

(See Page 9)

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
            UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
          WINDOW BLANKING

STYLE                          GRAY

BLANK ALL ABOVE                 OFF
BLANK ALL BELOW                 OFF

<SET WINDOWS>


BACK
EXIT
```

```
             SET WINDOWS

WINDOW NUMBER                     1

<EDIT WINDOW LOCATION>
<EDIT WINDOW ZOOM>

ENABLE WINDOW                    NO
REVERSE
CLEAR WINDOW

BACK
EXIT
```

REVERSE

A blanked out area can be reversed to make it visible and the areas on both sides of it not visible. The areas above and below the blanking area remain visible. Reversing the window a second time will return it to its original condition.

CLEAR WINDOW

All areas that have been set for window blanking are cleared.

BLANK ALL ABOVE/BLANK ALL BELOW

Blank All Above and Blank All Below add additional flexibility to setting up privacy areas. These settings are ideal for applications where a complete pan location needs to be blanked.

Blank All Above
Blanks everything above a user-defined tilt angle. A blanked band will appear at the top of the screen. The following settings are available:

OFF (default) No blanking
 10 Blanks area from 10° above horizon to 90° above horizon
 20 Blanks area from 20° above horizon to 90° above horizon
 30 Blanks area from 30° above horizon to 90° above horizon
 40 Blanks area from 40° above horizon to 90° above horizon
 50 Blanks area from 50° above horizon to 90° above horizon
 60 Blanks area from 60° above horizon to 90° above horizon
 70 Blanks area from 70° above horizon to 90° above horizon
 80 Blanks area from 80° above horizon to 90° above horizon
  0 Blanks area from -2° below horizon to 90° above horizon
-10 Blanks area from -10° below horizon to 90° above horizon
-20 Blanks area from -20° below horizon to 90° above horizon
-30 Blanks area from -30° below horizon to 90° above horizon
-40 Blanks area from -40° below horizon to 90° above horizon
-50 Blanks area from -50° below horizon to 90° above horizon
-60 Blanks area from -60° below horizon to 90° above horizon
-70 Blanks area from -70° below horizon to 90° above horizon
-80 Blanks area from -80° below horizon to 90° above horizon

Blank All Below
Blanks everything below a user-defined tilt angle. A blanked circle will appear below the specified angle. The following settings are available:

OFF (default) No blanking
 10 Blanks area from 10° above horizon to 92° below horizon
 20 Blanks area from 20° above horizon to 92° below horizon
 30 Blanks area from 30° above horizon to 92° below horizon
 40 Blanks area from 40° above horizon to 92° below horizon
 50 Blanks area from 50° above horizon to 92° below horizon
 60 Blanks area from 60° above horizon to 92° below horizon
 70 Blanks area from 70° above horizon to 92° below horizon
 80 Blanks area from 80° above horizon to 92° below horizon
  0 Blanks area from 2° below horizon 92° below horizon
-10 Blanks area from 10° below horizon to 92° below horizon
-20 Blanks area from 20° below horizon to 92° below horizon
-30 Blanks area from 30° below horizon to 92° below horizon
-40 Blanks area from 40° below horizon to 92° below horizon
-50 Blanks area from 50° below horizon to 92° below horizon
-60 Blanks area from 60° below horizon to 92° below horizon
-70 Blanks area from 70° below horizon to 92° below horizon
-80 Blanks area from 80° below horizon to 92° below horizon
```
                      80
                    70
                  60
                50
              40

              30

            20

          10

CAMERA ————————— HORIZON

          -10

            -20

              -30

                -40

                  -50

                -60
              -70
            -80
```

ALARMS

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
              ALARMS

RESUME                          OFF
SEQUENCE (SECS)                   5
RESET DELAY (SECS)

<ALARM SETTINGS>

BACK
EXIT
```

The ExSite IPSXM system has seven alarm inputs, which can be programmed as high, medium or low priority. When an alarm is received, an input signal to the unit triggers the user-defined action (go to preset, run pattern, etc.) programmed for the alarm.

There are three global alarm settings:

RESUME   This mode lets the system resume its previous activity (scan, pattern, or previous position) after all alarms are cleared.

SEQUENCE   This is the time the system will perform an alarm activity when more than one alarm of the same priority occurs at the same time.

RESET DELAY   This is the amount of time the system considers the alarm to be active after it has physically cleared.

Use the following steps to program alarm settings.

1. Use the joystick to position the cursor beside ALARM SETTINGS. Press Iris Open.
2. Select the alarm number:
   a. Use the joystick to position the cursor beside ALARM NUMBER.
   b. Press Iris Open. The cursor moves to the right.
   c. Move the joystick up or down to view selections. Press Iris Open to enter selection.

Quick Programming Guide

(See Page 9)

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            ALARMS

RESUME                          OFF
SEQUENCE (SECS)                   5
RESET DELAY (SECS)

<ALARM SETTINGS>

BACK
EXIT
```

```
         ALARM SETTINGS

ALARM NUMBER                      1

ALARM PRIORITY                  LOW
ALARM ACTION                   NONE
ACTIVATE AUX                     NO
ALARM CONTACT                   OFF

BACK
EXIT
```

3. Select the alarm priority:
    a. Use the joystick to position the cursor beside ALARM PRIORITY.
    b. Press Iris Open. The cursor moves to the right.
    c. Move the joystick up or down to view the available selections. Available settings include HIGH, MEDIUM, and LOW (default). If multiple alarms with different priorities are active at the same time, the dome will only go to the alarms with the highest priority.
    d. Press Iris Open to enter selection.

HIGH	Alarm action takes highest priority and will override manual pan, tilt, and zoom control.
MEDIUM/LOW	Alarm action will not occur if an alarm occurs during manual pan, tilt, and zoom control.

4. Set the alarm action:
    a. Use the joystick to position the cursor beside ALARM ACTION.
    b. Press Iris Open. The cursor moves to the right.
    c. Move the joystick up or down to view the available selections. The following are the settings for alarm action:

NONE	No action when alarm is triggered.
PRESET	The system goes to the preset that is the same as the alarm number. Preset 1 will go to Alarm 1.
PATTERN 1	The system runs pattern 1 when alarm is triggered.
PATTERN 2	The system runs pattern 2 when alarm is triggered.
PATTERN 3	The system runs pattern 3 when alarm is triggered.
PATTERN 4	The system runs pattern 4 when alarm is triggered.
AUTO SCAN	The system starts auto scan operation when alarm is triggered.
RANDOM SCAN	The system starts random scan operation when alarm is triggered.
FRAME SCAN	The system starts frame scan operation when alarm is triggered.

    d. Press Iris Open to enter selection.

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
             ALARMS

RESUME                          OFF
SEQUENCE (SECS)                   5
RESET DELAY (SECS)

<ALARM SETTINGS>


BACK
EXIT
```

```
          ALARM SETTINGS

ALARM NUMBER                      1

ALARM PRIORITY                  LOW
ALARM ACTION                   NONE
ACTIVATE AUX                     NO
ALARM CONTACT                   OFF

BACK
EXIT
```

5. Set the auxiliary to activate:
   a. Use the joystick to position the cursor beside ACTIVATE AUX.
   b. Press Iris Open. The cursor moves to the right.
   c. Move the joystick up or down to view the following available selections.

   NO (default)   Not activated.

   1   An alarm action will activate AUX 1.

   2   An alarm action will activate AUX 2.

   d. Press Iris Open to enter selection.

NOTE: The AUX 1/AUX2 will stop when all the alarms assigned to it have cleared. If the AUX1/AUX is set up as momentary, then it will be activated each time a new alarm is activated.

6. Set the alarm contact:
   a. Use the joystick to position the cursor beside ALARM CONTACT.
   b. Press Iris Open. The cursor moves to the right.
   c. Move the joystick up or down to view the following available selections.

   OFF (default)   Disabled

   N/O   Normally open

   N/C   Normally closed

   d. Press Iris Open to enter selection.

Quick Programming Guide

95 PRESET

(See Page 9)

WIPER

```
        PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
           UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
              WIPER*
WIPER CONTROL                 AUX 1
WIPER MODE               CONTINUOUS
WIPER DWELL (SECS)                2
WIPER TIME (MINS)               60

<SET WASHER SEQUENCE>

BACK
EXIT
```
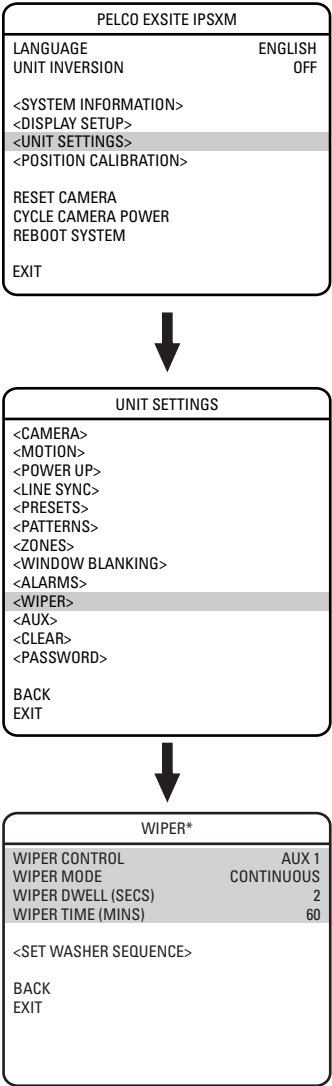
* Available only with the wiper models.

The following IPSXM unit models feature a window wiper to clear moisture from the window of the enclosure:

IPSXM31C22-2	IPSXM31C22-7
IPSXM31C22-2X	IPSXM31C22-7X
IPSXM31CBW23-2	IPSXM31CBW23-2X
IPSXM31CBW23-7	IPSXM31CBW23-7X

NOTE: The Wiper menu is available only on the above models. To check the unit model, refer to the *System Information* section of this manual.

WIPER CONTROL

This feature programs the on/off control for the wiper. There are two available settings for wiper control, AUX 1 and Preset 86. If the wiper control is programmed for AUX 1, the wiper will operate when AUX 1 is accessed. If the wiper control is set to Preset 86, selecting preset 86 on your controller will turn the wiper on/off.

WIPER MODE

Wiper mode determines how the wiper will act after the wiper control is turned on/off. There are two modes of operation for wiper mode, momentary and continuous.

MOMENTARY (default)	Programs the wiper to move across the enclosure window once and then back to its starting position.
CONTINUOUS	Programs the wiper to operate continually after the wiper is turned on. The wiper will continue to operate until the wiper control (AUX 1 or preset 86) is pressed again or until the programmed wiper time is completed.

WIPER DWELL

The wiper can be programmed to wipe the enclosure window every 1 to 30 seconds. This setting only works when the wiper is programmed for continuous mode. The dwell time can be programmed from 1 to 30 seconds.

WIPER TIME

Wiper time programs how long the wiper will be on before it automatically shuts off. This setting only works when the wiper is programmed for continuous mode. Wiper time can be programmed from 1 to 1,440 minutes (1 minute to 24 hours).

NOTE: CM9700 Matrix Systems Only – For the wiper to operate in continuous mode, the camera's AUX 1 relay function must be set to latching in the CM9700-MGR. If the AUX 1 camera file is not latching, the wiper will operate only in momentary mode, even if the system wiper is programmed for continuous operation. Refer to the CM9700-MGR Software Guide for instructions.

SET WASHER SEQUENCE

```
        PELCO EXSITE IPSXM

LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
         UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            WIPER*

WIPER CONTROL                 AUX 1
WIPER MODE              CONTINUOUS
WIPER DWELL (SECS)                2
WIPER TIME (MINS)               60

<SET WASHER SEQUENCE>

BACK
EXIT
```

```
       SET WASHER SEQUENCE*
     * * * PRESET NOT DEFINED * * *

<EDIT PRESET LABEL>
<EDIT PRESET SCENE>
<EDIT CAMERA SETTINGS>

WASHER TIME (SECS)               4
WIPER DELAY (SECS)               1
AUTO RETURN                     ON

<CLEAR PRESET>
<CLEAR CAMERA SETTINGS>

BACK
EXIT

REFERENCE INFORMATION
  AZIMUTH                      - -
  ELEVATION                    - -
  ZOOM                         - -
  CUSTOM CAMERA SETTINGS       - -
```

* Available only with the wiper models.

An external washer (not supplied by Pelco) can be used to wash the window of the enclosure. Accessing AUX 3 or selecting Preset 87 will start the washer sequence.

Use the following steps to program the washer sequence.

1. Use the joystick to position the cursor beside WIPER and then press Iris Open. The wiper menu appears on the monitor.

2. Position the cursor beside SET WASHER SEQUENCE and then press Iris Open.

3. Edit the preset label:
    a. Use the joystick to position the cursor beside EDIT PRESET LABEL.
    b. Press Iris Open. The following appears on the monitor:

```
LABEL FOR PRESET WASH

WASH - - - - - - - - - - - -

1234567890                       OK
ABCDEFGHIJ                   CANCEL
KLMNOPQRST
UVWXYZ.,-/                     SPACE
abcdefghij                 BACKSPACE
klmnopqrst
uvwxyz#&:"
```

    c. Use the joystick to position the cursor beside a character. Press Iris Open to enter selection. To clear a character, position the cursor beside BACKSPACE, and then press Iris Open.
    d. When the label is completed, move the cursor to OK. Press Iris Open to return to the Set Washer Sequence menu.

4. Edit the preset scene:
    a. Use the joystick to position the cursor beside EDIT PRESET SCENE.
    b. Press Iris Open.
    c. Follow the directions displayed on the monitor.

5. Edit preset camera settings:
    a. Use the joystick to position the cursor beside EDIT CAMERA SETTINGS.
    b. Press Iris Open. The EDIT CAMERA SETTINGS window appears on the monitor. Refer to the *Camera* and *Advanced Camera Settings* sections of this manual to change camera settings

6. Set the washer time. The washer time programs how long the wiper will be on before it automatically shuts off. Washer time can be programmed from 4 to 60 seconds.

7. Program the wiper delay. Wiper delay programs when the wiper will start after the washer sequence has started. Wiper delay can be programmed from 1 to 30 seconds.

8. Program the Auto Return to ON or OFF. If the auto return is set to ON the unit will return to the last operation before the system started the washer sequence. If it is set to OFF, the system will remain at the preset scene for the washer sequence.

Quick Programming Guide

(See Page 9)

AUX

```
            PELCO EXSITE IPSXM

LANGUAGE                       ENGLISH
UNIT INVERSION                     OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
               UNIT SETTINGS

<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
                    AUX

AUX 1 MODE                      TOGGLE
   DWELL TIME (SECS)                 1

AUX 2 MODE                      TOGGLE
   DWELL TIME (SECS)                 1

BACK
EXIT
```

An auxiliary output is a programmable signal from the system that can trigger another device to operate. An auxiliary output is programmable to trigger from an alarm or from a controller.

An AUX 1 command from the controller will activate the relay in the system and operate the device that is connected to the relay. The output of AUX 1 can be connected to the alarm input of a system switch to activate automatic monitor switching and recording.

An AUX 2 command from the controller will place a ground at the output of AUX 2 to operate the device that is connected to it.

The following are the available AUX MODE settings:

TOGGLE (default)	Changes the state of the auxiliary output every time an AUX command is received from the controller.
LATCHING	Must receive an AUX ON/AUX OFF command from the controller to turn the auxiliary output on/off.
MOMENTARY	An AUX ON command from the controller turns the auxiliary output on for the programmed DWELL TIME. The auxiliary output will automatically turn off when the dwell time is finished.

CLEAR

```
         PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
            UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
                CLEAR
CLEAR ALL ZONES
CLEAR ALL PRESETS
CLEAR ALL PATTERNS
CLEAR ALL WINDOW BLANKING

RESTORE FACTORY DEFAULTS

BACK
EXIT
```

Use this setting to clear user-defined settings or return the system to factory default settings.

The following are the available CLEAR settings:

ALL ZONES	Clears all zones. To clear a single zone, refer to the *Zones* section.
ALL PRESETS	Clears all presets. To clear a single preset, refer to the *Presets* section.
ALL PATTERNS	Clears all patterns. To clear a single patterns, refer to the *Patterns* section.
ALL WINDOW BLANKING	Clears all blanked windows. To clear a single blanked window, refer to the *Window Blanking* section.
RESTORE FACTORY DEFAULTS	Restores all camera settings to factory default settings.
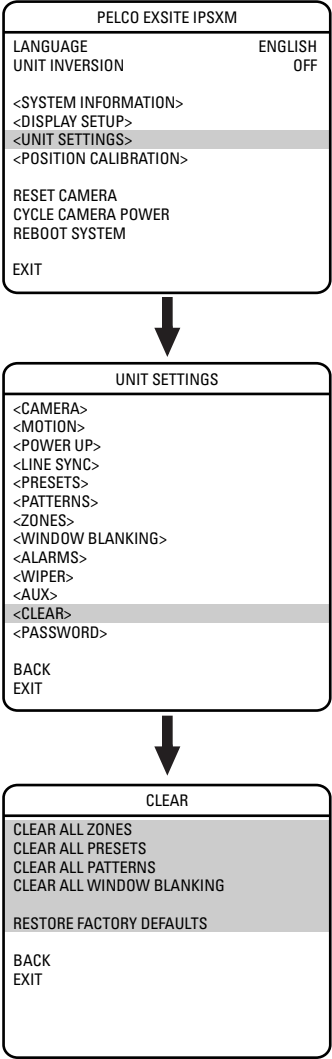
Quick Programming Guide

(See Page 9)

PASSWORD

```
        PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
          UNIT SETTINGS
<CAMERA>
<MOTION>
<POWER UP>
<LINE SYNC>
<PRESETS>
<PATTERNS>
<ZONES>
<WINDOW BLANKING>
<ALARMS>
<WIPER>
<AUX>
<CLEAR>
<PASSWORD>

BACK
EXIT
```

```
            PASSWORD
ENABLE PASSWORD                 OFF
 <EDIT PASSWORD>

BACK
```

```
EDIT THE PASSWORD

- - - - - - - - - - - -

1234567890                       OK
ABCDEFGHIJ                   CANCEL
KLMNOPQRST
UVWXYZ.,-/                    SPACE
abcdefghij               BACKSPACE
klmnopqrst
uvwxyz#&:"
```

ExSite IPSXM features password protection to prevent unauthorized changes to the system settings. An operator can open the System Information and Display Setup Screens, but cannot access any of the Unit Settings menus.

Controller/keyboard commands cannot override password-protected settings. If a keyboard is used to set a preset, pattern, or zone, the Enter Password screen appears on the monitor. The password must be entered before programming can continue.

At least one character must be entered to create a valid password.

Position Calibration

```
        PELCO EXSITE IPSXM
LANGUAGE                    ENGLISH
UNIT INVERSION                  OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

```
        POSITION CALIBRATION
        *** PRESET NOT DEFINED ***

<EDIT PRESET SCENE>

<CLEAR CALIBRATION PRESET>
<RECAL USING CAL PRESET>

BACK
EXIT

REFERENCE INFORMATION
  AZIMUTH
  ELEVATION
  ZOOM
```
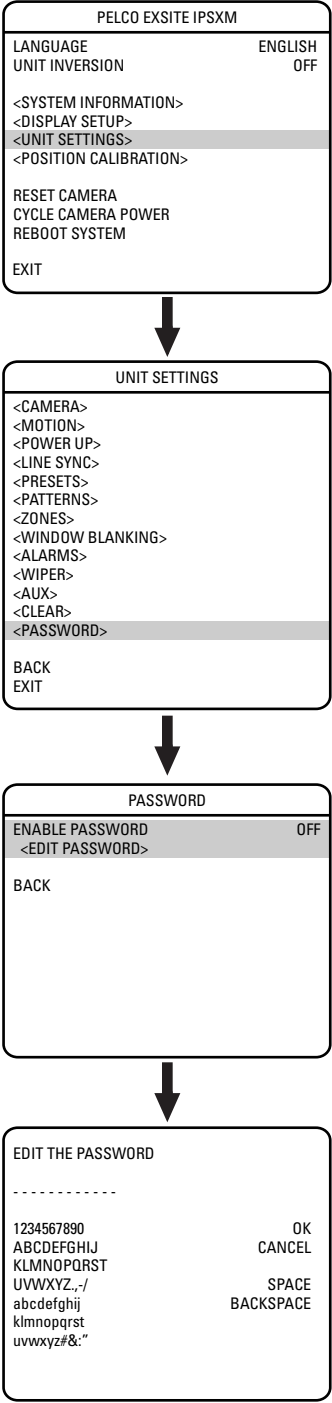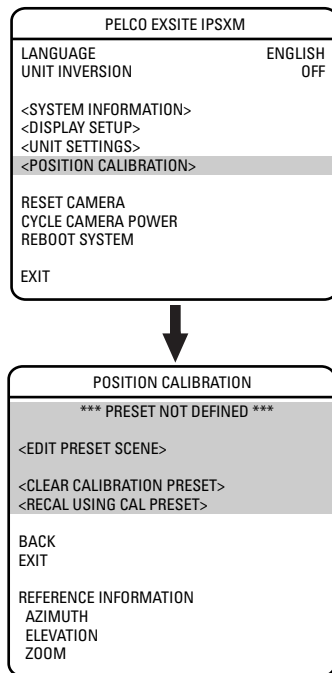
Position calibration sets the preset reference point for all automatic positioning system movements. Before programming presets, patterns, zones, labels, and window blanking, program and document the position calibration point. The purpose of the calibration point is to restore all programmed settings quickly in the event the unit is replaced or refurbished.

The position calibration point should be an easily identifiable point of reference. Best practice suggests it be associated with a prominent landmark in the most common preset position.

To program the calibration preset:

1. Use the joystick to position the cursor beside POSITION CALIBRATION.
2. Press Iris Open. The Position Calibration menu appears on the monitor.
3. Use the joystick to position the cursor beside EDIT PRESET SCENE.
4. Press Iris Open.
5. Follow the directions displayed on the monitor.

Once the calibration preset is programmed, the system should not have to be recalibrated unless the unit is serviced or moved.

To recalculate the calibration preset:

1. Use the joystick to position the cursor beside POSITION CALIBRATION.
2. Press Iris Open. The Position Calibration menu appears on the monitor.
3. Use the joystick to position the cursor beside RECAL USING CAL PRESET.
4. Press Iris Open.
5. Follow the directions displayed on the monitor.

To clear the calibration preset:

1. Use the joystick to position the cursor beside POSITION CALIBRATION.
2. Press Iris Open. The Position Calibration menu appears on the monitor.
3. Use the joystick to position the cursor beside CLEAR CALIBRATION PRESET.
4. Press Iris Open.
5. Follow the directions displayed on the monitor.

Reset, Cycle Power, Reboot

```
        PELCO EXSITE IPSXM
LANGUAGE                  ENGLISH
UNIT INVERSION                OFF

<SYSTEM INFORMATION>
<DISPLAY SETUP>
<UNIT SETTINGS>
<POSITION CALIBRATION>

RESET CAMERA
CYCLE CAMERA POWER
REBOOT SYSTEM

EXIT
```

RESET CAMERA

Use this function to reset all camera settings to factory default parameters.

NOTE: Reset camera restores all camera settings, except those associated with presets.

CYCLE CAMERA POWER

If the camera is not operating or if you lose camera control, cycle camera power. Cycling camera power resets the camera but does not change any saved camera settings.

REBOOT SYSTEM

Reboot the system if it is not operating if there is no control, or if the position of the unit has been compromised. Rebooting the system will cycle pan and tilt and camera power without changing programmed settings.

Software/Language File Upload

The ExSite IPSXM system allows access for on-site setup, testing, and uploading of revised operating software and language files. A Pelco field service tool is required to perform these operations. Field service tools include Pelco's remote monitor kit (IPS-RMK), remote data port box (IPS-RDPE-2), and remote monitor cable (IPS-CABLE).

For instructions on how to upload revised operating software and language files refer to the installation/operation manual supplied with the field service tool.

Perform software uploads only when necessary. Software uploads do not need to be performed if the system is operating properly.

UPLOAD ICON

During a software/language file upload, an icon will appear on the monitor to indicate data is being transferred to the system (refer to the figure below). The default setting for data transmission is 115.2 KB per second. Noisy and long-run connections will slow the transmission rate.
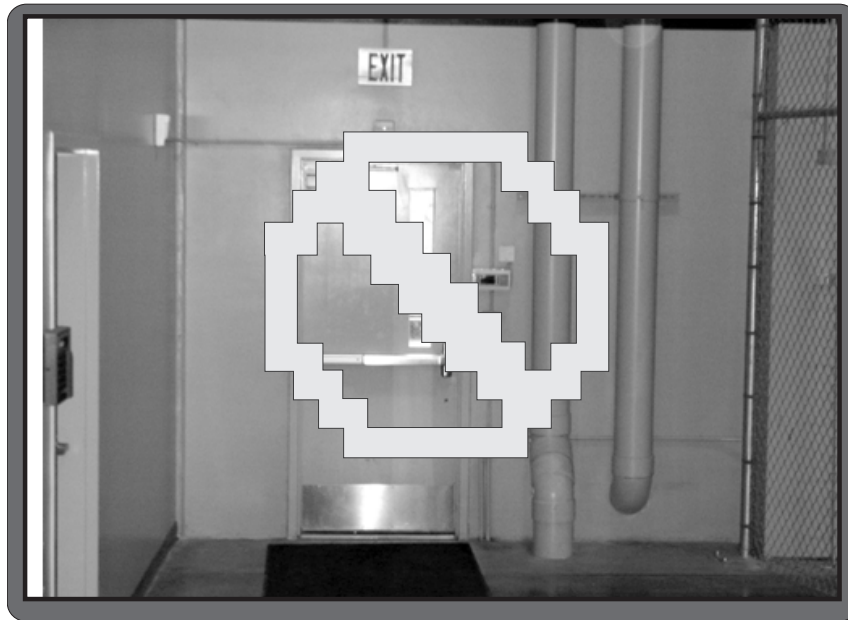
Upload Icon

Specifications

Camera	Day/Night (23X) Color	LowLight™ (22X) Color
Signal Format	NTSC, PAL	NTSC, PAL
Scanning System	2:1 interlace	2:1 Interlace
Image Sensor	1/4-inch CCD	1/4-inch EXview HAD™ CCD
Effective pixels		
NTSC	724 (H) x 494 (V)	768 (H) x 494 (V)
PAL	724 (H) x 582 (V)	752 (H) x 582 (V)
Horizontal Resolution		
NTSC	>470 TV lines	>470 TV lines
PAL	>470 TV lines	>460 TV lines
Lens	F1.6 (F = 3.6~82.8 mm optical)	F1.6 (F = 4~88 mm optical)
Zoom	23X optical, 10X digital	22X optical, 12X digital
Zoom Speed	2.9/4.2/5.8 seconds	2.4/3.9/6.3 seconds
Horizontal Angle of View	54˚ at 3.6 mm wide zoom 2.5˚ at 82.8 mm telephoto zoom	47˚ at 4.0 mm wide zoom 2.2˚ at 88 mm telephoto zoom
Focus	Automatic with manual override	Automatic with manual override
Maximum Sensitivity at 35 IRE		
NTSC	0.08 lux at 1/2 sec shutter (color) 0.3 lux at 1/60 sec shutter (B-W)	0.02 lux at 1/2 sec shutter
PAL	0.013 lux at 1/2 sec shutter (B-W) 0.08 lux at 1/1.5 sec shutter (color) 0.3 lux at 1/50 sec shutter (B-W) 0.013 lux at 1/1.5 sec shutter (B-W)	0.02 lux at 1/1.5 sec shutter
Sync System	Internal/AC line lock, phase adjustable via remote control, V-Sync*	Internal/AC line lock, phase adjustable via remote control, V-Sync*
White Balance	Automatic with manual override*	Automatic with manual override*
Shutter Speed	Automatic (electronic iris)/Manual	Automatic (electronic iris)/Manual
NTSC	1/2~1/30,000*	1/2~1/30,000*
PAL	1/1.5~1/30,000*	1/1.5~1/30,000*
Iris Control	Automatic Iris Control with manual override*	Automatic Iris Control with manual override*
Gain Control	Automatic/OFF*	Automatic/OFF*
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms
Video Signal to Noise	>50 dB	>50 dB
Wide Dynamic Range	80X	N/A

*Manual control of camera setup functions can be done with CM6700, CM6800, CM8500, CM9500, CM9740, CM9760, CM9770, CM9780, KBD200A, KBD300A, and MPT9500 controllers, but not with CM7500, MPT9000 or KBD9000 controllers.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.

- Three years on Genex® Series products (multiplexers, server, and keyboard).

- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and CC3651H-2X camera models, which have a five-year warranty.

- Two years on standard motorized or fixed focal length lenses.

- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.

- Two years on Spectra®, Esprit®, ExSite™, and PS20 Scanners, including when used in continuous motion applications.

- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).

- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.

- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.

- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

> Service Department
> Pelco
> 3500 Pelco Way
> Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

> Pelco
> 3500 Pelco Way
> Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

> Pelco c/o Expeditors
> 473 Eccles Avenue
> South San Francisco, CA 94080 USA
> Phone: 650-737-1700
> Fax: 650-737-0933

REVISION HISTORY

Manual #	Date	Comments
C1300M	11/04	Original version.
C1300M-A	4/05	Removed references to -4 models.
C1300M-B	6/05	Added 22X color camera.