Spectra® Mini Dome Camera
Operations Manual

OPERATIONS MANUAL
C3403M-B | 4-18

Contents

Important Notices

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

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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 Commission's rules.

CAN ICES-3 (A)/NMB-3(A)

Warranty Statement

For information about Pelco's product warranty and thereto related information, refer to www.pelco.com/warranty.

Legal Notice

SOME PELCO EQUIPMENT CONTAINS, AND THE SOFTWARE ENABLES, AUDIO/VISUAL AND RECORDING CAPABILITIES, THE IMPROPER USE OF WHICH MAY SUBJECT YOU TO CIVIL AND CRIMINAL PENALTIES. APPLICABLE LAWS REGARDING THE USE OF SUCH CAPABILITIES VARY BETWEEN JURISDICTIONS AND MAY REQUIRE, AMONG OTHER THINGS, EXPRESS WRITTEN CONSENT FROM RECORDED SUBJECTS. YOU ARE SOLELY RESPONSIBLE FOR INSURING STRICT COMPLIANCE WITH SUCH LAWS AND FOR STRICT ADHERENCE TO ANY/ALL RIGHTS OF PRIVACY AND PERSONALTY. USE OF THIS EQUIPMENT AND/OR SOFTWARE FOR ILLEGAL SURVEILLANCE OR MONITORING SHALL BE DEEMED UNAUTHORIZED USE IN VIOLATION OF THE END USER SOFTWARE AGREEMENT AND RESULT IN THE IMMEDIATE TERMINATION OF YOUR LICENSE RIGHTS THEREUNDER.

Video Quality Caution

Frame Rate Notice Regarding User Selected Options

Pelco systems are capable of providing high quality video for both live viewing and playback. However, the systems can be used in lower quality modes, which can degrade picture quality, to allow for a slower rate of data transfer and to reduce the amount of video data stored. The picture quality can be degraded by either lowering the resolution, reducing the picture rate, or both. A picture degraded by having a reduced resolution may result in an image that is less clear or even indiscernible. A picture degraded by reducing the picture rate has fewer frames per second, which can result in images that appear to jump or move more quickly than normal during playback. Lower frame rates may result in a key event not being recorded by the system. Judgment as to the suitability of the products for users' purposes is solely the users' responsibility. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.

Open Source Software

This product includes certain open source or other software originated from third parties that is subject to the GNU General Public License (GPL), GNU Library/Lesser General Public License (LGPL) and different and/or additional copyright licenses, disclaimers, and notices. The exact terms of GPL, LGPL, and some other licenses are provided to you with this product. Please refer to the exact terms of the GPL and LGPL at http://www.fsf.org (Free Software Foundation) or http://www.opensource.org (Open Source Initiative) regarding your rights under said license. You

may obtain a complete corresponding machine-readable copy of the source code of such software under the GPL or LGPL by sending your request to digitalsupport@pelco.com; the subject line should read Source Code Request. You will then receive an email with a link for you to download the source code. This offer is valid for a period of three (3) years from the date of the distribution of this product by Pelco.

ESD Warning

WARNING: This product is sensitive to Electrostatic Discharge (ESD). To avoid ESD damage to this product, use ESD safe practices during installation. Before touching, adjusting or handling this product, correctly attach an ESD wrist strap to your wrist and appropriately discharge your body and tools. For more information about ESD control and safe handling practices of electronics, please refer to ANSI/ESD S20.20-1999 or contact the Electrostatic Discharge Association (www.esda.org).

Getting Started

You must install your dome system before using this manual. Refer to the installation manual.

After the camera is installed, apply power to the Spectra Mini dome system. The system will start a configuration sequence. When configuration is done, the following information is displayed:

PELCO SPECTRA MINI
VERSION X.XX.XXXX
D ADDRESS: 1
P ADDRESS: 2
COMM 2400.N.8.1
VIDEO TYPE: NTSC

CONFIGURE DONE

This information will remain on the monitor until dome operation begins.

Refer to the following pages to learn how to operate and program your dome system.

Operating Your Dome System

To access the live camera controls panel:

1. Ensure that the dome camera is connected to a NET5500 Series Encoder.
   NOTE: A NET5400 Series Encoder is also supported, but is no longer available for purchase. In this manual, any reference to the NET5500 Series Encoder includes the NET5400 Series Encoder.
2. Access the dome camera URL in a web browser.
3. At the upper right corner of the web interface for the camera, click **Login**, enter the *Username* and *Password* in the login dialog box, and then click **Login**.
4. At the upper right corner of the web interface for the camera, click **Live**.

The live camera controls panel is displayed to the left of the camera stream. On a NET5500 Series Encoder, the control panel will appear as below.

You can use a Pelco controller to operate the live controls or a standard mouse. See Tables 1 or 2 for instructions.

Table 1: Controller actions to use the live camera controls

Operation	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 until you reach the digital zoom[1] limit.
Zoom Wide	Press the Zoom Wide button or turn the joystick counterclockwise.
Scanning Stop Scan Random Scan Frame Scan Auto Scan	 Preset 96 Preset 97 Preset 98 Preset 99
Preset	Refer to the documentation supplied with the control system.
Pattern[2]	Refer to the documentation supplied with the control system.
Zones	Refer to the Zones section and to the documentation supplied with the control system.
Auto Flip	Turn on or off in the programming menu (see the section titled *Enabling and Disabling AUTO FLIP*).

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

[2] The dome cannot perform digital zoom in a pattern. Optical zoom will operate in a pattern.

Table 2: Standard mouse actions to use the live camera controls

Operation	Control
Pan and Tilt	Click the arrows to the left, right, above, and below the home icon; or click the *Encoder* icon (lower right corner of the window, third icon from the right), and then click and drag the mouse to position the camera.
Zoom	Click the – symbol (*Zoom Out*) or + symbol (*Zoom In*) to the right and left of the magnifying glass icon to zoom out or zoom in.
Focus	Click the – symbol (*Focus Far*) or + symbol (*Focus Near*) to the right and left of the eye icon to bring the image into focus.
Exposure	Click the – symbol (*Iris Close*) or + symbol (*Iris Open*) to the right and left of the lens icon to adjust the exposure.
Scanning	
Stop Scan	In the *Presets* field, select **96** from the drop-down menu, and then click **Go**.
Random Scan	In the *Presets* field, select **97** from the drop-down menu, and then click **Go**.
Frame Scan	In the *Presets* field, select **98** from the drop-down menu, and then click **Go**.
Auto Scan	In the *Presets* field, select **99** from the drop-down menu, and then click **Go**.
Presets	In the *Presets* field, select the number of the preset from the drop-down menu, and then click **Go**.
Pattern[2]	In the *Pattern* field, select the number of the pattern from the drop-down menu, and then click **Run**.

Accessing and Adjusting Settings on Your Dome System

You can access and adjust camera settings either using Pelco controllers, or using a standard keyboard. Instructions for each method is provided.

Accessing the main menu Using 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 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. If you have not done so already, follow the instructions in the How to *Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter the number of the Spectra Dome System and press the CAM key.
3. Enter 95 and hold the PRESET key for two seconds.
4. In the *Edit Preset* menu, position the arrow by *SET* and press the ACK key. The main menu appears.

KBD200A/KBD300A (DIRECT MODE ONLY)

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter 95.
3. Hold the PRESET key (approximately five seconds) until the main menu appears on the screen.

CM9500

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter the number of the Spectra Dome System and press the CAM key. The main menu appears.
3. Highlight **SETUP** in the main menu and press the SELECT key.
4. Highlight **CAM** in the setup menu and press the SELECT key.
5. Highlight **PRESET** in the camera menu and press the SELECT key.
6. Enter 95 and press the F1 key. The main menu appears.

CM9740/CM9760/CM9770/CM9780

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Press the ESCAPE key to open the main menu. Select **DEF**. The *Define Submenu* appears.
3. Enter your four-digit PIN if this is your first time entering this mode.
4. Enter 95 and select PRST. The main menu appears on the monitor.
5. Select the *Quit* icon to return to the default menu.

KBD4000/KBD4002

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Press the SPOT MONITOR 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. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter 95 and press the PRESET SET key.
3. Position the asterisk in the **YES** row and press the F1 key. The main menu appears.

Extended Coaxitron or RS-485 Mode

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter 95 and press the PRESET SET key.
3. Press the F2 key. The main menu appears.

NET300/NET350/NET4001A

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Check the *Set* box.
3. Click the preset 95 button. The main menu appears.

WS5050

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Right-click in the video pane of the Spectra Dome System.
3. Click **Enter Menu**.

VCD5000

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. Enter 95 for the preset action. The shortcuts menu appears.
3. Press the Preset button on the KBD5000.

Accessing the main menu Using a Standard Mouse

NOTE: You must be connected to a NET5500 Series Encoder to perform these steps.

1. If you have not done so already, follow the instructions in the *How to Operate Your Dome System* section, so that you see the control panel to the left of the camera stream view.
2. At the upper right corner of the web interface for the camera, click **Settings**.
3. Click the **Camera Configuration** tab, and then click **OSD** in the drop-down menu.

Adjusting Settings Using a Pelco Controller

Access the main menu, as instructed in the Accessing the main menu Using Preset 95 section, and then use the controller as described in *Table 3: Controller actions to use the settings menu.*

Table 3: Controller actions to use the settings menu

Operation	Control
	Access the main menu (Preset 95). See the *Accessing main menu Using Preset 95* section, above.
	Use the joystick to position the cursor to the left of menu selection or the available options for a selection. If your controller does not have a joystick, use the up or down key.
	Press *Iris Open*, the submenu/cursor moves to the right.
	Press *Iris Open* to make selection.
	Press *Iris Close* to cancel selection (exit the option of any menu item).

Adjusting Settings in the main menu Using a Standard Mouse

NOTE: You must be connected to a NET5500 Series Encoder to use a standard mouse to adjust the settings.

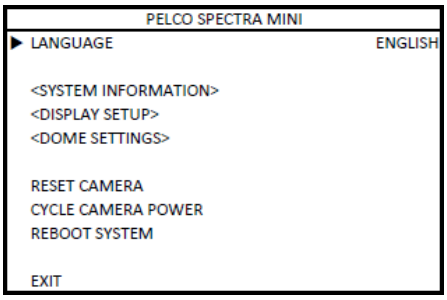
Access the main menu, as instructed in the *Accessing the main menu Using a Standard Mouse* section, and then use the mouse to click in the *OSD configuration* control panel (left panel of the web interface).

Table 4: Standard mouse actions to use the settings menu

Operation	Control
Scroll to a menu item	Click the arrows above and below the home icon to scroll up or down in the menu.
Jump to the first or last menu item	Click *Focus Far* to jump to the first item in the menu; click *Focus Near* to jump to the last item in the menu.
Select a menu item	Click *Iris Open* or click the home icon to select the menu item by which the curser is positioned. An asterisk (*) indicates that the menu item is selected, and the cursor indicates the option you will select.
Scroll to an option	After you select a menu item, the option is active. Click the arrows above and below the home icon to scroll up or down through the available choices for a selected option.
Select an option	Click *Iris Open* or click the home icon to select the option that is displayed. The cursor returns to the menu item that you just set.

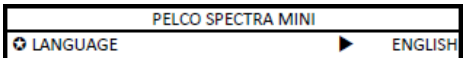
Using Setup Menus

Access the setup menu, which is displayed on the camera stream view. If necessary, refer to the section titled *Accessing the main menu Using Preset 95*, or the section titled *Accessing the main menu Using a Standard Mouse*. The main screen is shown as an example:



On each screen:

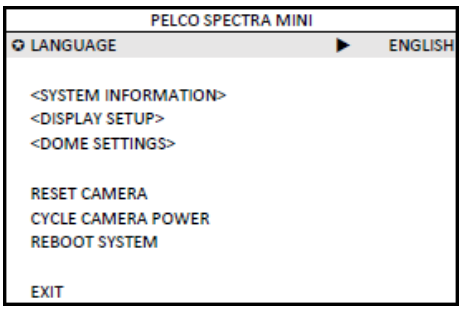
- Items without angle brackets (for example: *LANGUAGE*) are specific settings. Select the item, and then choose from the options available.
- Items with angle brackets (for example: *<SYSTEM INFORMATION>*) have sub-menus. Select the item, and then make the appropriate changes in the next screen.
- Select *BACK* on any screen on which it appears to return to the previous screen.
- Select *EXIT* on any screen on which it appears to exit from the setup menu.
- The cursor to the left of an item indicates that the item is active.
- The asterisk to the left of an item indicates that the item is selected.
- The cursor to the left of an option indicates that the option is active.



Items and options in each menu screen are described in the following sections.

Setting the Language

The language for the on-screen menus is selectable. Available languages include English, Spanish, French, German, Italian, and Portuguese. The factory default language is English. The screen to access the language settings is:

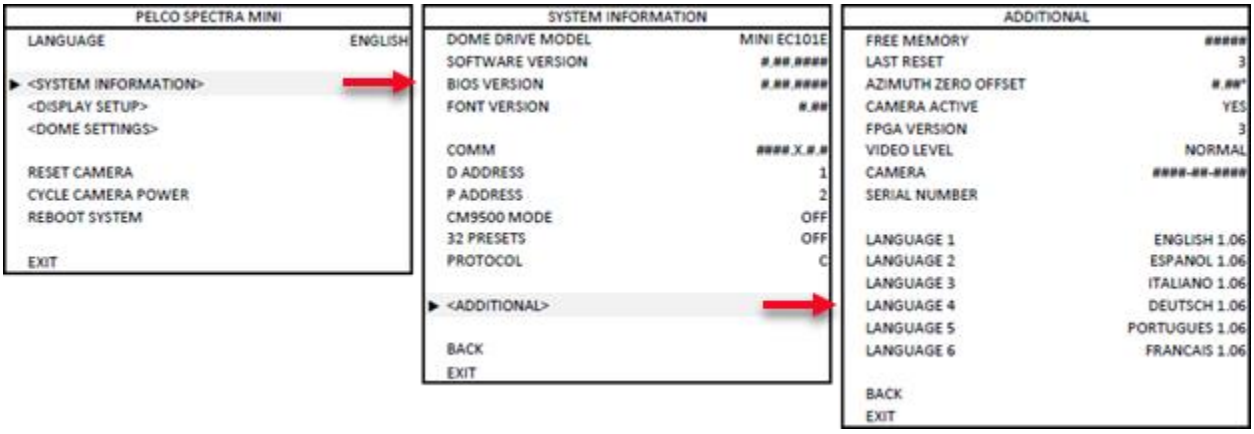


To change the display language:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *LANGUAGE*.
3. Select *LANGUAGE*. An asterisk appears to the left of *LANGUAGE*, and the cursor moves to the right, beside the current, selected language.
4. Scroll through the list of options, and then select the language.
    - All on-screen menus are changed to the selected language.
    - The cursor returns to the left of *LANGUAGE*.

Viewing System Information

The *SYSTEM INFORMATION* screens display dome drive model, software version, camera serial number, and other diagnostic information. System settings cannot be changed using this screen. This screen is for reference only.

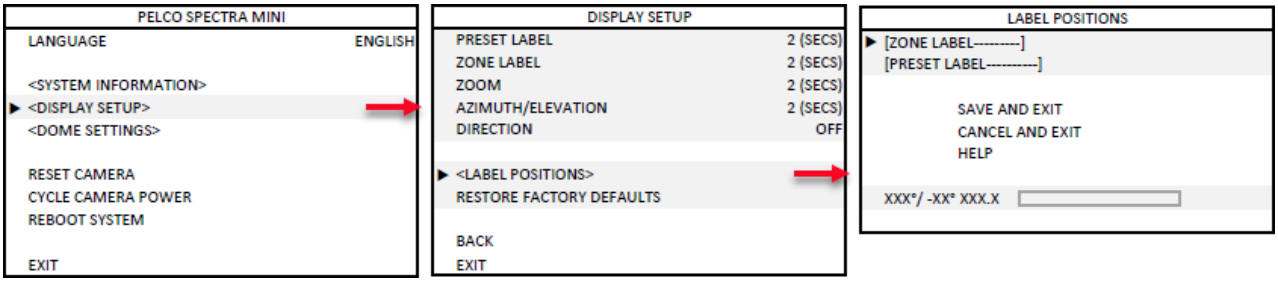


To display the *SYSTEM INFORMATION* screen:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<SYSTEM INFORMATION>*, and then select it.
3. View the information on the first screen.
4. To see more system information, select *<ADDITIONAL>*.

Using Display Setup

The *DISPLAY SETUP* screen allows you to program how labels are displayed on the monitor. You can leave all settings at the default values, change just one value, or change multiple values. You can also change the location of labels on the camera stream.



Setting the Amount of Time to Display a Label

To change the amount of time a label is displayed:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DISPLAY SETUP>*, and then select it.
3. To select a label type to change, position the cursor to the left of the appropriate label type, and then select it.
   - *PRESET LABEL* identifies the preset, when a preset is called.
   - *ZONE LABEL* identifies the zone. A zone label is displayed when the system moves into a zone.
   - *ZOOM RATIO* identifies the amount of magnification when zoom is activated.
   - *AZIMUTH/ELEVATION* indicates the azimuth--pan angle from 0° up to 359°, and the elevation—tilt from 0° (horizontal) to -90°, when pan/tilt is activated.
   - *DIRECTION* displays the compass direction.
4. Scroll through the list of options for the label type selected, and then select the setting for the option.
   - *OFF* sets the label to not be displayed when activated.
   - *CONSTANT* sets the label to display continually when activated.
   - *10 (SECS)* sets the label to display for ten (10) seconds after activation.

- *5 (SECS)* sets the label to display for five (5) seconds after activation.
- *2 (SECS)* sets the label to display for two (2) seconds after activation.

5. If appropriate, repeat the previous two steps to change another label setting.

Setting Label Positions

The following labels are not set at fixed positions, and their positions can be changed:

- *ZONE LABEL*
- *PRESET LABEL*
- Zoom ratio (Direction *AZIMUTH/ELEVATION – XXX*; where XXX is the magnification units from 1 to 80.) The zoom bar to the right of the text displays the magnification number, which can be 1-10, 1-32, 1-40, or 1-80, depending on the zoom limit that is set by the user.

To adjust a label position:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DISPLAY SETUP>*, and then select it.
3. To adjust the *<LABEL POSITIONS>* settings, position the cursor to the left of *<LABEL POSITIONS>*, and then select it.
4. To change the location of the zone label:
   a. Position the cursor to the left of *[ZONE LABEL----------]*, and then select it.
   b. Click the down arrow or *Focus Far* to move the label lower on the screen.
   c. Click the up arrow or *Focus Near* to move the label higher on the screen.
   d. Ensure that the label does not cover up another label.
5. To change the location of the preset label:
   a. Position the cursor to the left of *[PRESET LABEL----------]*, and then select it.
   b. Click the down arrow or *Focus Far* to move the label lower on the screen.
   c. Click the up arrow or *Focus Near* to move the label higher on the screen.
   d. Ensure that the label does not cover up another label.
6. To change the location of the compass direction label:
   a. Position the cursor to the left of the current compass reading (for example: NE), and then select it.
   b. Click the down arrow or *Focus Far* to move the label lower on the screen.
   c. Click the up arrow or *Focus Near* to move the label higher on the screen.
   d. Ensure that the label does not cover up another label.
7. To change the location of the zoom ratio label:
   a. Position the cursor to the left of the current zoom ratio reading (for example: 222° / -44° 35), and then select it.
   b. Click the down arrow or *Focus Far* to move the label lower on the screen.
   c. Click the up arrow or *Focus Near* to move the label higher on the screen.
   d. Ensure that the label does not cover up another label.
8. If you want help, position the cursor to the left of *HELP* and then select it. Press or click *Iris Open* or the home icon to exit the help screen.
9. To cancel the changes (before you save them) and return to the *<DISPLAY SETUP>* menu, position the cursor to the left of *CANCEL AND EXIT*, and then select it.
10. To save the changes and return to the *<DISPLAY SETUP>* menu, position the cursor to the left of *SAVE AND EXIT*, and then select it.

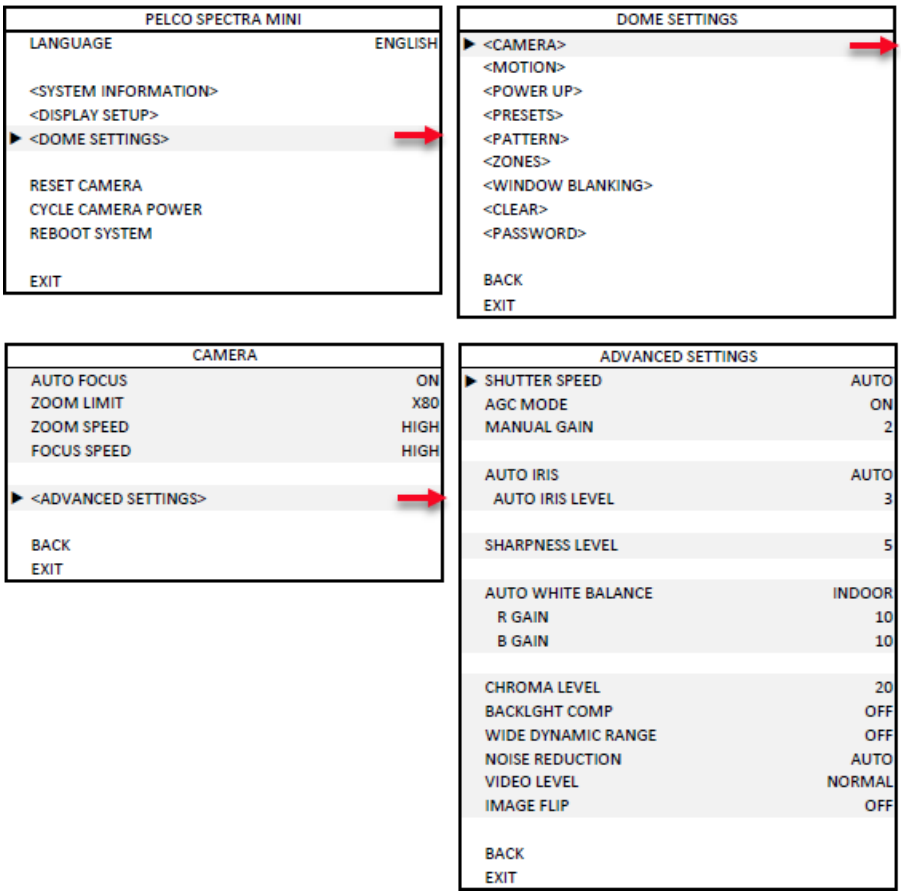
Restoring Display Settings to Factory Defaults

To restore the display settings to the factory default values:

1. If necessary, return to the main screen.
2. Position the cursor to the left of <DISPLAY SETUP>, and then select it.
3. Position the cursor to the left of RESTORE FACTORY DEFAULTS, and then select it.
4. (Optional) To cancel, press or click *Iris Close*.
5. To continue the RESTORE FACTORY DEFAULTS operation, click the + symbol to the left of the iris icon.

Adjusting Dome Settings

From the *DOME SETTINGS* screen, you can adjust basic camera settings having to do with focusing and zooming. You can also adjust several advanced camera settings.



Adjusting Basic Camera Settings

The *CAMERA* screen is accessible from the *DOME SETTINGS* screen, and provides a means to adjust basic camera settings. To do so:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. To change the *AUTO FOCUS* setting, position the cursor to the left of *AUTO FOCUS*, and then select it. Scroll through the list of settings for the option, and then select the setting. The settings from which to choose are:
   - *ON* (default)—ensures that the camera will focus automatically when using pan, tilt, and zoom functions.
   - *OFF*—requires that focus is set manually by clicking *Focus Far* and *Focus Near*.
5. To change the *ZOOM LIMIT* setting, position the cursor to the left of *ZOOM LIMIT*, and then select it. Scroll through the list of settings for the option, and then select the setting. The settings from which to choose are *X10*, *X32*, *X40*, or *X80* (default).

6. To change the *ZOOM SPEED* setting, position the cursor to the left of *ZOOM SPEED*, and then select it. Scroll through the list of settings for the option, and then select the setting. The settings from which to choose are:
   - *HIGH* (default) —1.5 seconds
   - *MEDIUM*—2.5 seconds
   - *LOW* —4.3 seconds

   NOTE: When using the HIGH setting, the image may be out of focus until zooming stops.
7. To change the *FOCUS SPEED* setting—the speed of focus movement in response to *Focus Near* and *Focus Far* control. Position the cursor to the left of *FOCUS SPEED*, and then select it. Scroll through the list of settings for the option, and then select the setting. The settings from which to choose are *HIGH*, *MEDIUM*, and *LOW*.

Adjusting Advanced Camera Settings

From the *CAMERA* menu, you can access *<ADVANCED SETTINGS>* and make further adjustments including shutter speed, image sharpness, and backlight compensation. Refer to the instructions in the sections below.

Changing the Shutter Speed

Shutter speed is the duration of the electronic shutter. To change the shutter speed:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *SHUTTER SPEED*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are:
   - *AUTO* (default) —ensures that the electronic shutter speed is set automatically by the amount of light sensed by the camera.
   - *NUMERIC VALUE*—enables you to select a numerical value for the shutter speed. Spectra Mini system has several numerical shutter speed settings.
     – The higher the number, the faster the electronic shutter.
     – The slowest shutter speed setting is 60 = 1/60 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.

     NOTE: 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.

Adjusting Automatic Gain Control (AGC)

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. To toggle the AGC (automatic gain control) mode on or off, position the cursor to the left of *AGC MODE*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are *ON* or *OFF*.
6. To set the AGC limit, position the cursor to the left of *MANUAL GAIN*, and then select it. (The *MANUAL GAIN* setting adjusts the brightness of the image to a constant level.) Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are whole numbers from zero (0) to ten (10); 0 is the darkest and 10 is the brightest.
   NOTE: *MANUAL GAIN* is only enabled when *AGC MODE* is set to *OFF*.

Adjusting the Auto Iris Settings

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.

4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. To select whether the iris is adjusted automatically—opens and closes the iris in response to changing light conditions, position the cursor to the left of *AUTO IRIS*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are:
   - *OFF*—disables Auto Iris; control is always manual.
   - *AUTO* (default)—ensures that the iris is adjusted automatically to produce a constant video output, as determined by the Auto Iris Level setting.

   NOTE: If auto iris is in the auto mode, it will remain that way until the iris is manually opened or closed. The dome will return to auto mode when it is panned or tilted more than 15 degrees.
6. To select the numeric value the auto iris uses to maintain the brightness level of the camera, position the cursor to the left of *AUTO IRIS LEVEL*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are whole numbers from zero (0) to 12; 0 is the darkest and 12 is the brightest.
   - 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.

Adjusting the Sharpness Level

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

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. To adjust the level of detail, position the cursor to the left of *SHARPNESS LEVEL*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are whole numbers from zero (0) to 10; 0 is the least sharp and 10 is the sharpest.

Adjusting Auto White Balance

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. To determine how color balance is retained over a color temperature range, position the cursor to the left of *AUTO WHITE BALANCE*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are:
   - *AUTO*—enables automatic processing of the viewed image to retain color balance over a color temperature range.
   - *MANUAL*—requires the color balance to be manually adjusted.
   - *INDOOR* (default)—should be used only when the camera is in use indoors and the light and colors of the environment will vary minimally.
6. To adjust the picture output in the red range, position the cursor to the left of *R GAIN*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are zero (0) through 20; 0 has the least red and 20 has the most red.
   - As you change the value, you will see the color change on your monitor.
   - If you select an *R GAIN* value, the *AUTO WHITE BALANCE* will revert to *MANUAL*.
7. To adjust the picture output in the blue range, position the cursor to the left of B GAIN, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are zero (0) through 20; 0 has the least blue and 20 has the most blue.
   - As you change the value, you will see the color change on your monitor.
   - If you select an RGAIN value, the AUTO WHITE BALANCE will revert to MANUAL.

Adjusting the Chroma Level

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *CHROMA LEVEL*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are whole numbers from zero (0) to 20; 0 will result in black-and-white video and 20 provides the maximum color level.

Enabling or Disabling Backlight Compensation

If a bright backlight is present, the subjects in the picture may appear dark or in silhouette. Backlight compensation enhances objects in the center of the picture. The dome 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.

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *BACKLIGHT COMP*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are:

   - *ON*—enables backlight compensation.
   - *OFF* (default)—de-activates the feature.

   NOTE: If backlight compensation is *ON*, decrease the *AUTO IRIS SETTING*. Refer to the section titled *Adjusting the Auto Iris Setting*.

   NOTE: *BACKLIGHT COMP* cannot be enabled at the same time as *WIDE DYNAMIC RANGE*. The setting most-recently enabled disables the other setting.

Enabling or Disabling Wide Dynamic Range

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *WIDE DYNAMIC RANGE*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are *ON* or *OFF* (default).

   NOTE: *WIDE DYNAMIC RANGE* cannot be enabled at the same time as *BACKLIGHT COMP*. The setting most-recently enabled disables the other setting.

Adjusting Noise Reduction

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *NOISE REDUCTION*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are *AUTO*, *HIGH* (default), *MEDIUM*, *LOW*, and *OFF* (default).

Adjusting Video Level

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.

5. Position the cursor to the left of *VIDEO LEVEL*, and then select it. Scroll through the list of settings for the option, and then select the setting. Settings from which to choose are:
   - *NORMAL* (default)—1.0-volt peak-to-peak
   - *HIGH*—1.2-volt peak-to-peak to compensate for losses in video cable

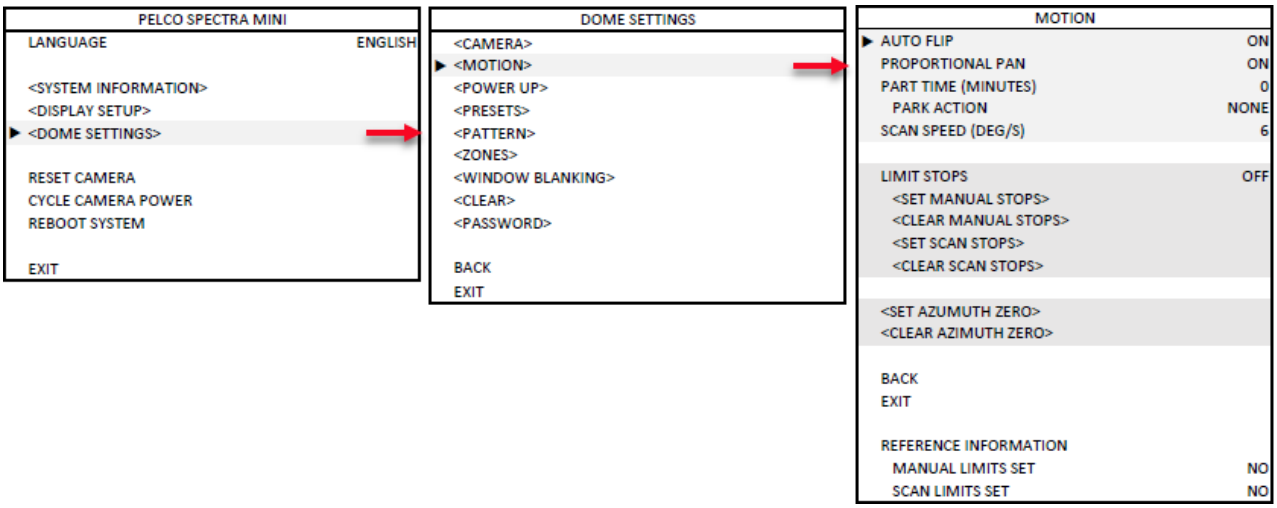
Using Image Flip

To rotate the image in the stream view 180°:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CAMERA>*, and then select it.
4. Position the cursor to the left of *<ADVANCED SETTINGS>*, and then select it.
5. Position the cursor to the left of *IMAGE FLIP*, and then select it. Scroll through the list of settings for the option, and then select *ON*.

To return the image to the original orientation, perform the same steps, but select *OFF*.

Adjusting Motion Settings



Enabling and Disabling Auto Flip

When the camera tilts downward and goes just beyond the vertical position, the dome rotates 180°. When the dome rotates (flips), the camera starts moving upward, and continues to do so as long as you continue to hold the joystick in the down position (using a Pelco controller) or hold the up or down arrow in the camera control (left) panel. After you let go of the joystick or the arrow after the dome rotates, the control returns to normal operation. The auto flip feature is useful for following a person who passes directly beneath the dome.

To enable *AUTO FLIP*:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *AUTO FLIP*, and then select it. Scroll through the list of settings for the option, and then select *ON*.

To disable *AUTO FLIP*, perform the same steps, but select *OFF*.

Enabling and Disabling 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.

To enable *PROPORTIONAL PAN*:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *PROPORTIONAL PAN*, and then select it. Scroll through the list of settings for the option, and then select *ON*.

To disable *PROPORTIONAL PAN*, perform the same steps, but select *OFF*. The pan speed will not depend on the amount of zoom.

Adjusting Park Settings

To adjust park time and the activity which occurs when the dome is parked:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *PARK TIME (MINUTES)*, and then select it. Scroll through the list of settings for the option, and then select the setting.
    - This feature allows the dome to begin preset 1 after a programmed time of inactivity.
    - Park time can be programmed from 1 minute to 720 minutes (12 hours), or it can be set to zero (0) (default), which disables this feature.
5. Position the cursor to the left of *PARK ACTION*, and then select it. Scroll through the list of settings for the option, and then select the option. Settings from which to choose are:
    - *NONE* (default)—No action.
    - *PRESET 1*—Dome goes to preset 1.

Adjusting Scan Speed

Scan speed is the degrees per second that the dome will pan when in a scan mode. To adjust the scan speed:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *SCAN SPEED (DEG/S)*, and then select it. Scroll through the list of settings for the option, and then select the option. Scan speed can be set to 3, 6 (default), or 12 degrees per second.

Adjusting Limit Stops Settings

Limit stops are programmable stops that limit the pan range of the dome. 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 dome reverses direction during random, frame, or auto scanning when a limit stop is reached.

Instructions for adjusting the *LIMIT STOPS* settings are provided in the sections, below.

Enabling Limit Stops

To use limit stops, you must first enable them. To do so:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *LIMIT STOPS*, and then select it. Scroll through the list of settings for the option, and then select *ON*.

To disable *LIMIT STOPS*, perform the same steps, but select *OFF*.

Setting Manual Stops

To set manual stops:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *SET MANUAL STOPS*, and then select it.
5. Move the camera to the left limit position, and then press or click *Iris Open*, or click the home icon.
6. Move the camera to the right limit position, and then press or click *Iris Open*, or click the home icon.

   Under *REFERENCE INFORMATION* at the bottom of the screen, *MANUAL LIMITS SET* will indicate *YES*.

NOTE: To use manual stops, the *LIMIT STOPS* setting must be *ON*.

Clearing Manual Stops

To clear manual stops:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *CLEAR MANUAL STOPS*, and then select it.
5. Press or click *Iris Open*, or click the home icon.
   Under *REFERENCE INFORMATION* at the bottom of the screen, *MANUAL LIMITS SET* will indicate *NO*.

Setting Scan Stops

To set scan stops:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *SET SCAN STOPS*, and then select it.
5. Move the camera to the left limit position, and then press or click *Iris Open*, or click the home icon.
6. Move the camera to the right limit position, and then press or click *Iris Open*, or click the home icon.
   Under *REFERENCE INFORMATION* at the bottom of the screen, *SCAN LIMITS SET* will indicate *YES*.

NOTE: To use scan stops, the *LIMIT STOPS* setting must be *ON*.

Clearing Scan Stops

To clear scan stops:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *CLEAR SCAN STOPS*, and then select it.
5. Press or click *Iris Open*, or click the home icon.

Under *REFERENCE INFORMATION* at the bottom of the screen, *SCAN LIMITS SET* will indicate *NO*.

Adjusting Azimuth Zero Settings

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

Setting Azimuth Zero

To program azimuth zero:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *SET AZIMUTH ZERO*, and then select it.
5. Position the camera to zero position, and then press or click *Iris Open*, or click the home icon.

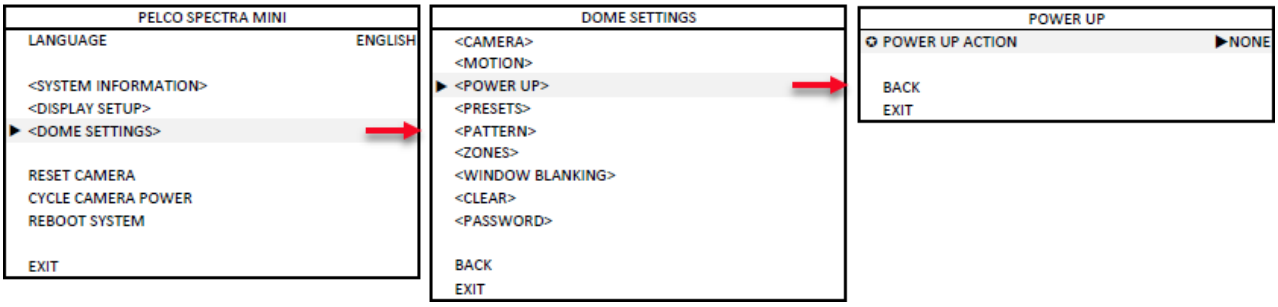
Clearing Azimuth Zero

To clear azimuth zero:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<MOTION>*, and then select it.
4. Position the cursor to the left of *CLEAR AZIMUTH ZERO*, and then select it.
5. Press or click *Iris Open*.

Adjusting Power Up Action

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



The following preset are available:

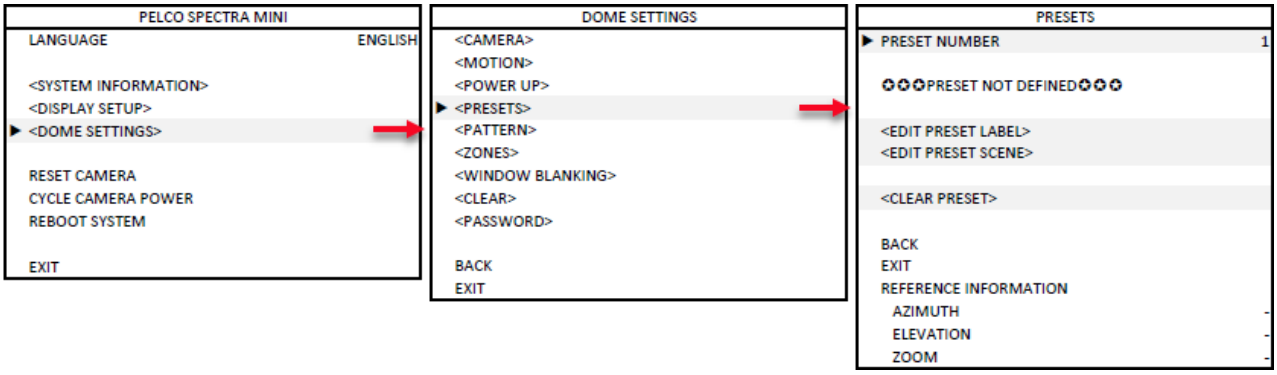
- *NONE*—No action is taken.
- *AUTO* (default)—The dome resumes its prior activity or direction before the power outage.
- *AUTO SCAN*—The dome starts the auto scan operation.
- *RANDOM SCAN*—The dome starts the random scan operation.
- *FRAME SCAN*—The dome starts the frame scan operation.
- *PRESET 1*—The dome goes to Preset 1
- *PRESET 8*—The dome goes to Preset 8.
- *PATTERN 1*—The dome runs Pattern 1.

To adjust the *POWER UP ACTION*:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<POWER UP>*, and then select it.
4. Scroll through the settings available for this option, and then select the setting.

Adjusting Presets

The Spectra Mini Dome System has 64 preset positions. Each of the user-definable presets can be programmed to use pan, tilt, camera settings, and motion detection. The programmable presets are numbered 1-32 and 35-55.

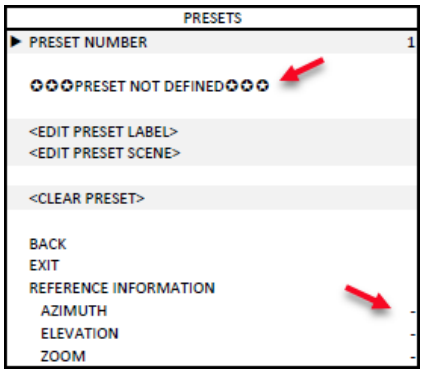


The following presets are predefined for specific functions:

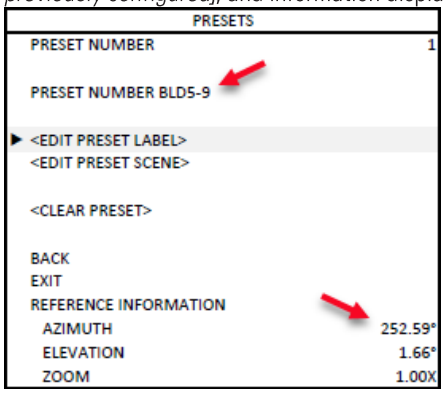
- 33 Flip command. Pans the dome drive 180°.
- 34 Pan zero command. Directs the dome drive to the factory- determined zero reference point.
- 90-91 Manual limit stops.
- 92-93 Scan limit stops.
- 95 Select main programming menu.
- 96 Stop a scan.
- 97 Random scanning.
- 98 Frame scanning.
- 99 Start auto scanning.

To configure a preset:

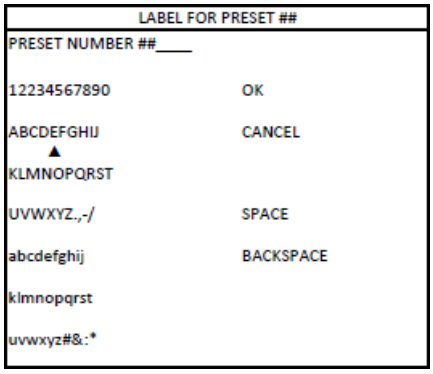
1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of <PRESETS>, and then select it.
4. Position the cursor to the left of *PRESET NUMBER*, and then select it.
5. Scroll through the preset numbers, and then select the preset number.
   - If this preset is not configured, the row beneath *PRESET NUMBER* displays **** PRESET NOT DEFINED **** and there is no information in the *REFERENCE INFORMATION* area.



   - If this preset is configured, the row beneath *PRESET NUMBER* displays *PRESET NUMBER [the number previously configured]*, and information displays in the *REFERENCE INFORMATION* area.



6. Edit the preset label:
   a. Position the cursor to the left of *EDIT PRESET LABEL*, and then select it.
   The following screen is displayed.



   b. Position the cursor beneath a character in the left column, and then select it.
   c. To enter a space, position the cursor to the left of *SPACE* in the right column, and then select it.
   d. To clear a character, position the cursor to the left of *BACKSPACE* in the right column, and then select it.
   e. Repeat the previous three steps as necessary to complete the label.
   f. When the label is complete, move the cursor to *OK* in the right column, and then select it.

   The row beneath *PRESET NUMBER* displays *PRESET NUMBER [the number you entered]*, and information displays in the *REFERENCE INFORMATION* area.

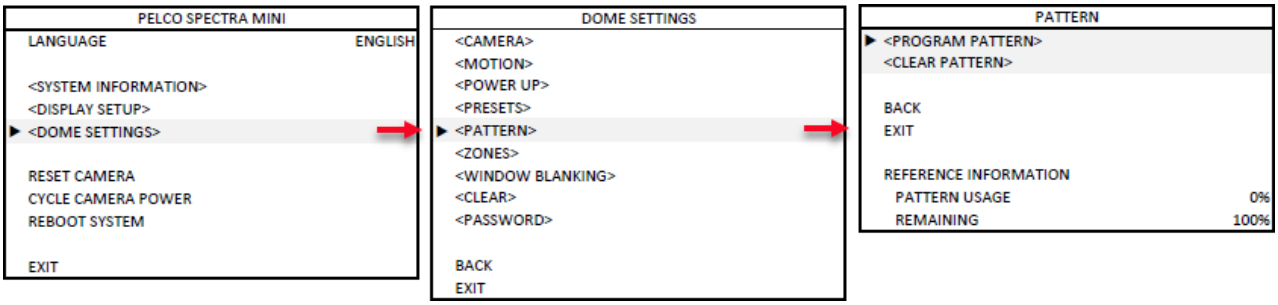
7. Edit the preset scene:
   a. Position the cursor to the left of *EDIT PRESET SCENE*, and then select it.
   b. Position the camera, and then press or click *Iris Open*, or click the home icon.
8. To clear a preset:
   a. Position the cursor to the left of *CLEAR PRESET*, and then select it.
   b. Press or click *Iris Open*, or click the home icon.

   The row beneath PRESET NUMBER displays **** PRESET NOT DEFINED ****, and there is no information in the *REFERENCE INFORMATION* area.

Adjusting a Pattern

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 Spectra Mini has one user-defined pattern. Pattern length is based upon memory usage rather than a fixed amount of time. The complexity of the pattern will determine the amount of storage available to program the pattern.



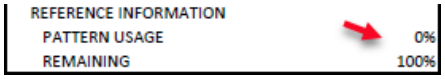
To configure a pattern:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<PATTERN>*, and then select it.
4. Position the cursor to the left of *<PROGRAM PATTERN>*, and then select it.

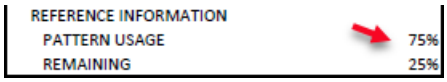
5. Move the camera to the starting position for the pattern, and then press or click *Iris Open*, or click the home icon.

   After the pattern is programmed, the amount of memory used is displayed on the screen.

6. Press or click *Iris Open*, or click the home icon to save the pattern.
   - If the pattern is not configured, the *REFERENCE INFORMATION* area displays *PATTERN USAGE* at 0% and *REMAINING* at100%.

   - If this preset is already configured, the *REFERENCE INFORMATION* area displays *PATTERN USAGE* at a value other than 0%, and the *REMAINING* at a value that is 100% minus the *PATTERN USAGE* value.

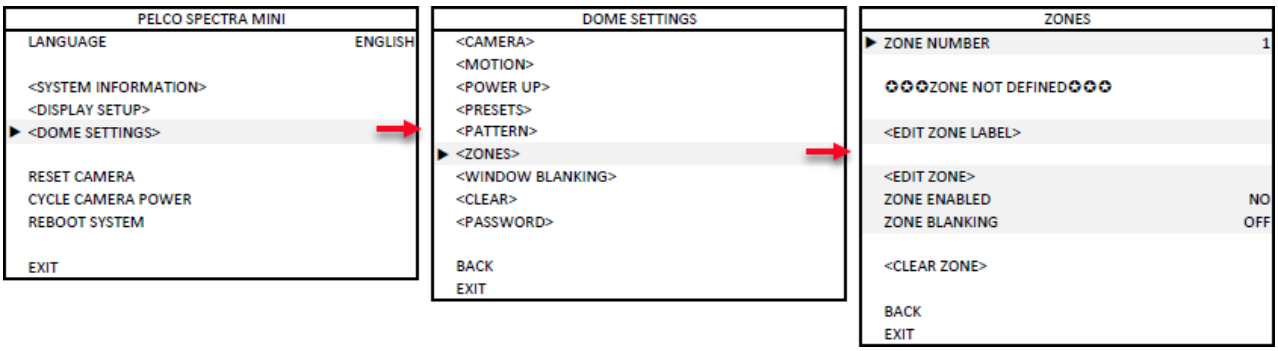
To clear a pattern:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<PATTERN>*, and then select it.
4. Position the cursor to the left of *<CLEAR PATTERN>*, and then select it.
   After the pattern is cleared, the *REFERENCE INFORMATION* area displays *PATTERN USAGE* at 0% and *REMAINING* at 100%.

NOTE: When programming one or more presets within a pattern, use the normal controller commands to call a preset.

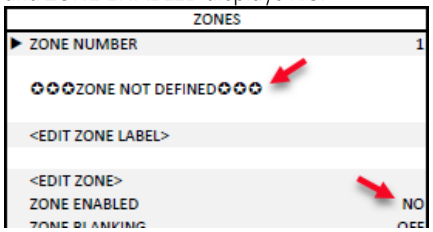
Adjusting Zones

A zone is a pan area, defined by a left and right limit, on the 360° pan plane. The Spectra Mini Dome System is capable of four (4) zones, each with a 20-character label.

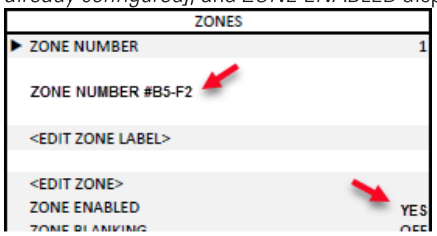


To configure a zone:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<ZONES>*, and then select it.
   - If this zone is not configured, the row beneath *ZONE NUMBER* displays **** ZONE NOT DEFINED **** and *ZONE ENABLED* displays *NO*.

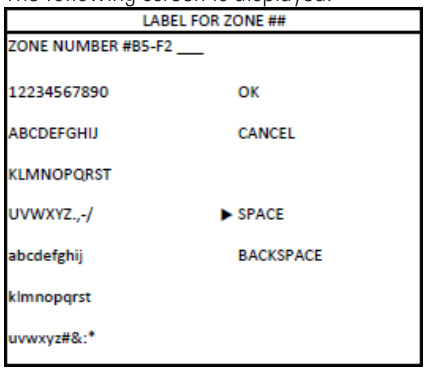
     

- If this zone is configured, the row beneath *ZONE NUMBER* displays *ZONE NUMBER [the number already configured]*, and *ZONE ENABLED* displays *YES*.



4. Position the cursor to the left of *ZONE NUMBER*, and then select it.
5. Scroll through the zone numbers, and then select the zone number.
6. Edit the zone:
   a. Position the cursor to the left of *<EDIT ZONE>*, and then select it.
   b. Move the camera to the left limit position, and then press or click *Iris Open*, or click the home icon.
   c. Move the camera to the right limit position, and then press or click *Iris Open*, or click the home icon.

   The row beneath *ZONE NUMBER* displays *ZONE NUMBER [the number you just selected]*, and *ZONE ENABLED* displays *YES*.
7. (Optional) Edit the zone label:
   a. Position the cursor to the left of *<EDIT ZONE LABEL>*, and then select it.
   The following screen is displayed.



   b. Position the cursor beneath a character in the left column, and then select it.
   c. To enter a space, position the cursor to the left of *SPACE* in the right column, and then select it.
   d. To clear a character, position the cursor to the left of *BACKSPACE* in the right column, and then select it.
   e. Repeat the previous three steps as necessary to complete the label.
   f. When the label is complete, move the cursor to *OK* in the right column, and then select it.

   The row beneath *ZONE NUMBER* displays *ZONE NUMBER [the character string you entered]*.
8. (Optional) To disable or blank a zone, enable ZONE BLANKING:
   a. Position the cursor to the left of ZONE BLANKING, and then select it.
   b. Scroll through the list of settings for the option, and then select *ON*.

To clear a zone:

1. Position the cursor to the left of *CLEAR ZONE*, and then select it.
2. Press or click *Iris Open*, or click the home icon.

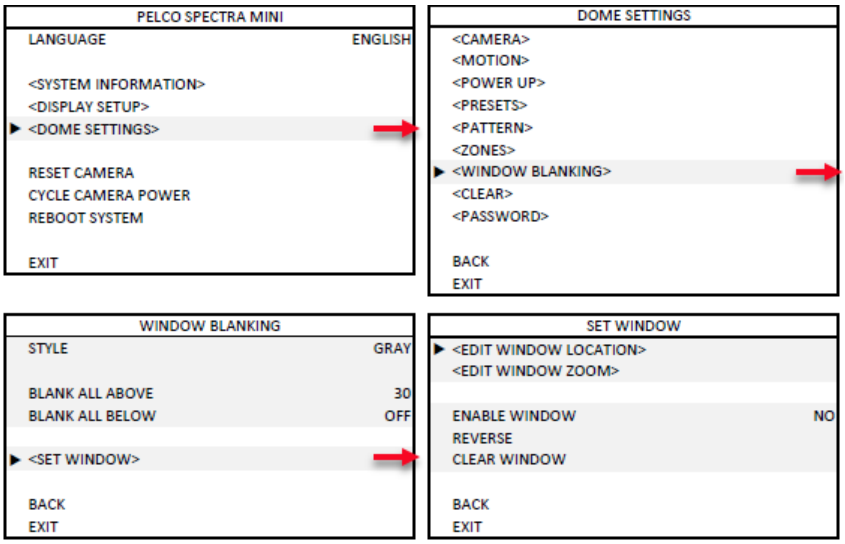
The row beneath *ZONE NUMBER* displays **** ZONE NOT DEFINED **** and *ZONE ENALBED* displays *NO*.

Adjusting Window Blanking

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

If a preset scene has window blanking, the image on the screen is blanked out when a preset is called. When the dome reaches the preset, the blanking is removed and the preset scene is displayed.

Spectra Mini 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.



Setting the Window Blanking Area

To set the window blanking area:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<WINDOW BLANKING>*, and then select it.
4. Position the cursor to the left of *STYLE*, and then select it.
5. Scroll through the settings available for this option (*GRAY* or *SMEAR*), and then select the option.
6. Position the cursor to the left of *<SET WINDOW>*, and then select it.
7. Edit the window location:

   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

   a. Position the cursor to the left of *<EDIT WINDOW LOCATION>*, and then select it.
   b. Move the camera to the upper left corner of the area to blank, and then press or click *Iris Open*, or click the home icon.
   c. Move the camera to the upper right corner of the area to blank, and then press or click *Iris Open*, or click the home icon.
   d. Move the camera to the lower right corner of the area to blank, and then press or click *Iris Open*, or click the home icon.
   e. Move the camera to the lower left corner of the area to blank, and then press or click *Iris Open*, or click the home icon.

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

Setting the window zoom point

The blanked area can be programmed to turn on or off at a specified zoom point. To set the zoom point:

1. Position the cursor to the left of *<EDIT WINDOW ZOOM>*, and then select it.
2. Use *Zoom In* (and *Zoom Out*) to select the magnification level at which you want window blanking to turn on.
3. Press or click *Iris Open*, or click the home icon.

NOTE: Because 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. See the section titled *Reversing the Blanked-Out Area*, below.

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

Enabling and Disabling the Window

To disable the window:

1. Position the cursor to the left of *ENABLE WINDOW*, and then select it.
2. Scroll through the settings for the option, and then select *NO*.

To enable the window:

1. Position the cursor to the left of *ENABLE WINDOW*, and then select it.
2. Scroll through the settings for the option, and then select *OFF*.

Reversing the Blanked-Out Area

The 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 a second time will return the window to its original condition.

To reverse the blanked-out area, position the cursor to the left of *REVERSE*, and then select it.

Clearing the Blanked-Out Area

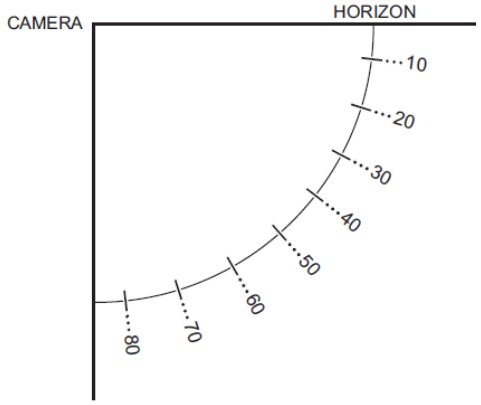
To clear the area that has been set for window blanking, position the cursor to the left of *CLEAR WINDOW*, and then select it.

The window location and window zoom are cleared, and *ENABLE WINDOW* displays NO.

Using Blank All Above and 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 everything above and/or below an elevation angle must be blanked.

The settings available for each option correspond to the image, below.



Setting Blank All Above

BLANK ALL ABOVE blanks everything above a user-defined tilt angle. A blanked band will appear at the top of the screen.

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.

3. Position the cursor to the left of *<WINDOW BLANKING>*, and then select it.
4. Position the cursor to the left of *BLANK ALL ABOVE*, and then select it.
5. Scroll through the settings available for the option, and then select the option. The following settings are available.
   - OFF (default)—No blanking
   - 0—Blanks area from horizon to 2° below horizon
   - 10—Blanks area from horizon to 10° below horizon
   - 20—Blanks area from horizon to 20° below horizon
   - 30—Blanks area from horizon to 30° below horizon
   - 40—Blanks area from horizon to 40° below horizon
   - 50—Blanks area from horizon to 50° below horizon
   - 60—Blanks area from horizon to 60° below horizon
   - 70—Blanks area from horizon to 70° below horizon
   - 80—Blanks area from horizon to 80° below horizon

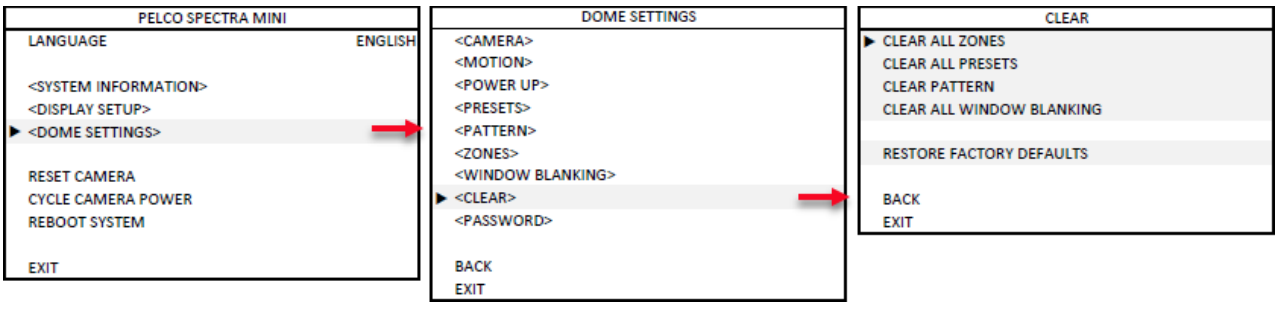
Setting Blank All Below

BLANK ALL BELOW blanks everything below a user-defined tilt angle. A blanked circle will appear below the specified angle.

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<WINDOW BLANKING>*, and then select it.
4. Position the cursor to the left of *BLANK ALL BELOW*, and then select it.
5. Scroll through the settings available for the option, and then select the option. The following settings are available.
   - OFF (default)—No blanking
   - 0—Blanks area from 2° to 92° below horizon
   - 10—Blanks area from 10° to 92° below horizon
   - 20—Blanks area from 20° to 92° below horizon
   - 30—Blanks area from 30° to 92° below horizon
   - 40—Blanks area from 40° to 92° below horizon
   - 50—Blanks area from 50° to 92° below horizon
   - 60—Blanks area from 60° to 92° below horizon
   - 70—Blanks area from 70° to 92° below horizon
   - 80—Blanks area from 80° to 92° below horizon

Clearing User-defined Settings

Use the *CLEAR* screen to clear user-defined settings or return the dome to factory default settings.



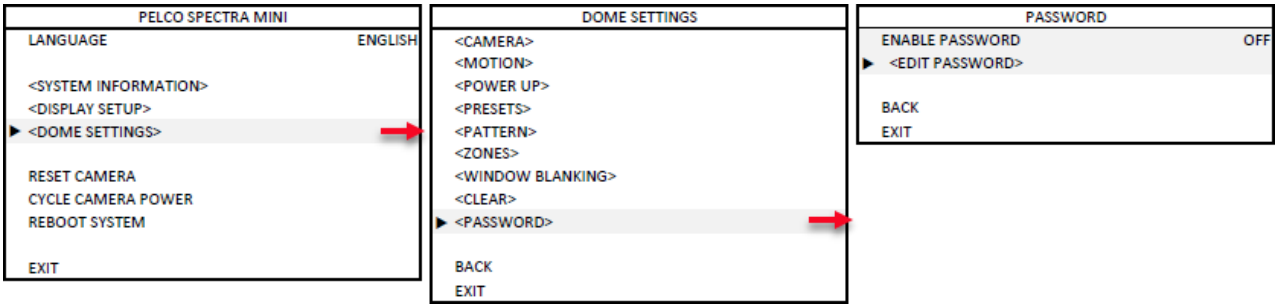
1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<CLEAR>*, and then select it.
4. Position the cursor to the left of the option to activate, and then select it. The options are:
   - *ALLZONES*—Clears all zones. To clear a single zone, refer to the section titled *Adjusting Zones*.
   - *ALL PRESETS*—Clears all presets. To clear a single preset, refer to the Presets section.

- *ALL PATTERNS*—Clears the pattern.
- *ALL WINDOW BLANKING*—Clears the blanked window area.
- *RESTORE FACTORY DEFAULTS*—Restores all camera settings to factory default settings.

Using the Password

Spectra Mini features password protection to prevent unauthorized changes to the dome settings.

- An operator can open the *SYSTEM INFORMATION* and *DISPLAY SETUP* screens, but cannot access any of the *DOME 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.



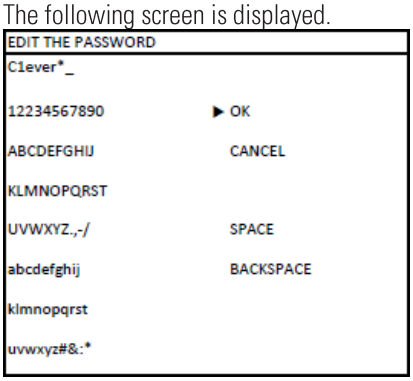
To enable the password:

1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<PASSWORD>*, and then select it.
4. Position the cursor to the left of *ENABLE PASSWORD*, and then select it.
5. Scroll through the settings for the option, and then select *ON*.

To disable the password, follow the instructions above, but select *OFF*.

To edit the password:

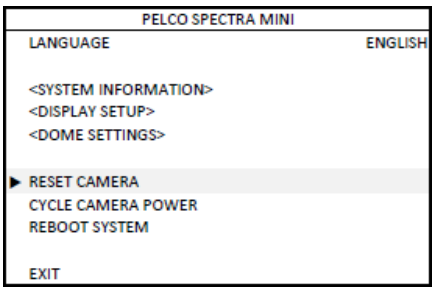
1. If necessary, return to the main screen.
2. Position the cursor to the left of *<DOME SETTINGS>*, and then select it.
3. Position the cursor to the left of *<PASSWORD>*, and then select it.
4. Position the cursor to the left of *EDIT PASSWORD*, and then select it.
   The following screen is displayed.



5. Position the cursor beneath a character in the left column, and then select it.
6. To enter a space, position the cursor to the left of *SPACE* in the right column, and then select it.
7. To clear a character, position the cursor to the left of *BACKSPACE* in the right column, and then select it.
8. Repeat the previous three steps as necessary to complete the label.

   NOTE: At least one character must be entered to create a valid password.
9. When the label is complete, move the cursor to *OK* in the right column, and then select it.

Resetting the Camera

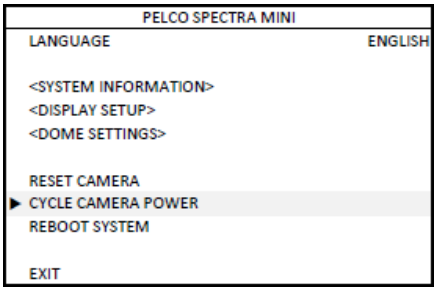


To reset all camera settings to factory default parameters:

1. Return to the main screen.
2. Position the cursor to the left of *RESET CAMERA*, and then select it.
3. Press or click *Iris Open*, or click the home icon.

Cycling 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.

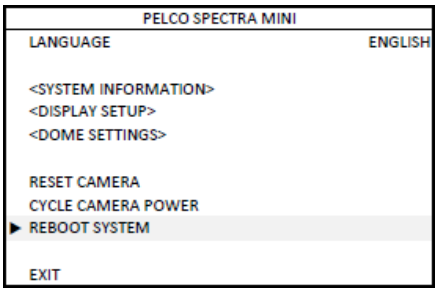


To cycle camera power:

1. Return to the main screen.
2. Position the cursor to the left of *CYCLE CAMERA POWER*, and then select it.
3. Press or click *Iris Open*, or click the home icon.

Rebooting the System

Reboot the system if it is not operating or if there is no control. Rebooting the system will cycle dome and camera power without changing programmed dome settings.



To reboot the system:

1. Return to the main screen.
2. Position the cursor to the left of *REBOOT SYSTEM*, and then select it.
3. Press or click *Iris Open*, or click the home icon.

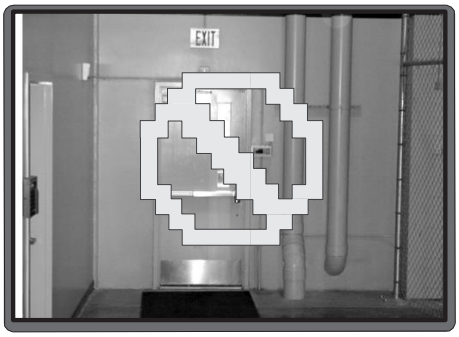
Software/Language File Upload

The six-pin data port underneath the trim ring of the dome 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) and remote monitor cable (IPS-CABLE), both of which must be used with an adapter cable (IPS-MINIADPT).

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

NOTE: Only perform software uploads when necessary. Software uploads do not need to be performed if the dome system is operating properly.

NOTE: During a software/language file upload, the icon shown below will appear on the monitor to indicate that data is being transferred to the Spectra Dome System. The default setting for data transmission is 115.2 KB per second. Noisy and long-run connections will slow the transmission rate.



Pelco, Inc. 625 W. Alluvial Ave, Fresno, California 93711 USA
USA and Canada Tel (800) 289-9100 Fax (800) 289-9150
International Tel +1 (559) 292-1981 Fax +1 (559) 348-1120