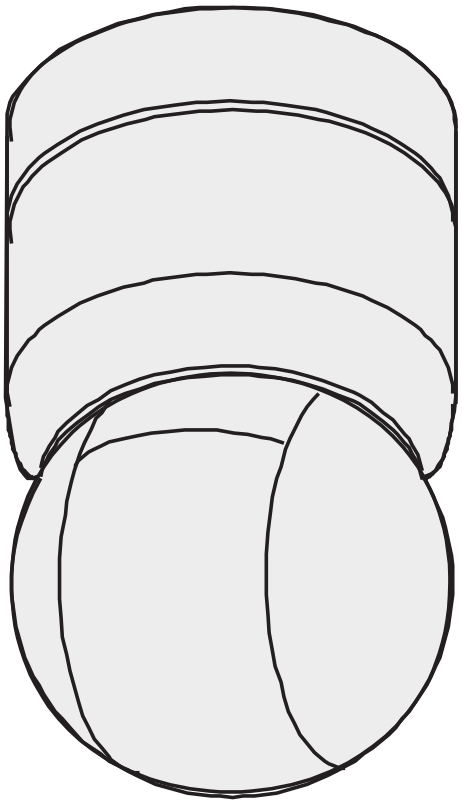

SpeedDome® Ultra V Camera Dome

Configuration Utility Operator's Manual

Sensormatic
WORLD LEADER IN ELECTRONIC SECURITY

8000-2697-01

SpeedDome® Ultra V Camera Dome

Configuration Utility Operator's Manual

Version 0701-2507-030

EQUIPMENT MODIFICATION CAUTION

Equipment changes or modifications not expressly approved by Sensormatic Electronics Corporation, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

FCC COMPLIANCE

This equipment has been tested and complies with the limits for a Class A digital device, according to Part 15 of the FCC Rules. These limits provide reasonable protection against harmful interference when the equipment operates in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used according to these instructions, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference. If this equipment is used in a residential area, users must correct the interference at their own expense.

CISPR 22 CLASS A WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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SOFTWARE LICENSE AGREEMENT

A Software License Agreement appears in Appendix B of this manual. Please read it carefully. Using the SpeedDome Ultra V Camera Dome Configuration Utility software indicates that you accept the terms and conditions of this agreement.

PN-8000-2697-01, Rev. B (3/2000 - BSL)

Table of Contents

Before You Begin

In This Preface

What's In This Manual?

The SpeedDome Ultra V Configuration Utility Operator's Manual is organized as follows:

- ***Chapter 1***, ***Using the Dome Configuration Utility***, describes how to use the SpeedDome Ultra V Camera Dome configuration utility.
- ***Chapter 2***, ***Configuring Pan, Tilt, Zoom, and Shutter Options***, describes how to set the "flip" feature zoom stops, and open shutter settings for the dome.
- ***Chapter 3***, ***Configuring Camera and Lens Functions***, describes how to set the line lock to prevent vertical rolling, how to set the automatic gain control, and how to adjust the white balance settings.
- ***Chapter 4***, ***Configuring Alarms, Areas, Home, and Privacy Settings***, describes how to configure alarm inputs, and how to assign a home position and North setting for the dome. In addition, you can also set the boundaries for up to 16 areas and program presets and program up to 8 Privacy Zones.
- ***Chapter 5***, ***Configuring Text Displayed On-Screen***, describes how to enable or disable the display of status, name and diagnostic information associated with the camera dome. It also provides instructions for setting or changing the names of areas, presets, patterns, alarms, and the dome. You can also set the appearance of text displayed by the camera dome and enable the display of Directional Indicators.
- ***Chapter 6***, ***Configuring Language and Password Settings***, describes how set the language for the menus and prompts. It also describes how to set and enable a password to prevent unauthorized use of the configuration utility.

I M P O R T A N T

If Portuguese is the selected language, the characters "ã" and "õ " will not be displayed on the screen. This is due to a limitation of the dome's text overlay chip.

- ***Appendix A***, ***Records***, provides a convenient place for listing the configuration information associated with your camera dome.
- ***Appendix B***, ***Software License Agreement***, lists the terms and conditions for using this product.

Text Conventions

This book uses text in different ways to identify different kinds of information.

Bold Italics	Used for terms specific to the system, and text that requires special emphasis, for example ***Preset***.
Italics	Used for menu selections or settings, for example, *On-screen Text Display.*
Bold	Used for names of buttons, for example, **Zoom**.

Note Special notes are separated by ruled lines, like this. Notes call attention to any item of information that may be of special importance.

Related Documents

Other sources provide supplemental information about your SpeedDome Ultra V Camera Dome. These sources serve to enhance your understanding of the product and its use.

- The SpeedDome Ultra V Camera Dome Configuration Utility Quick Reference Guide (8000-2698-01) provides a brief overview of how to use the configuration utility.
- The SpeedDome Ultra V Camera Dome Installation and Service Guide (8000-2695-01) provides specific information about the wiring and physical set up of the camera dome.

Getting Help

If you have a question about operation of this product, and you cannot find the answer in this document, consult with your supervisor. If your supervisor cannot answer your question, contact the Help Desk at 1-800-241-6678.

NOTES:

C H A P T E R 1

Using the Dome Configuration Utility

The SpeedDome Ultra V camera dome is a 22X optical zoom camera enclosed in a compact dome housing. It utilizes Fifth Generation Digital Signal Processing (DSP5) to provide superior performance in low light conditions and more realistic colors. It also supports advanced features such as 8X digital zoom (supporting up to 176X total zoom), open shutter settings, privacy zones, and direction indicators. The Dome Configuration Utility is used to customize the advanced settings for the SpeedDome Ultra V camera dome.

This chapter introduces you to the Dome Configuration Utility. It explains how to start the utility, how navigate through the menus, and how to change settings. It also explains where to find specific information about customizing dome settings.

In This Chapter

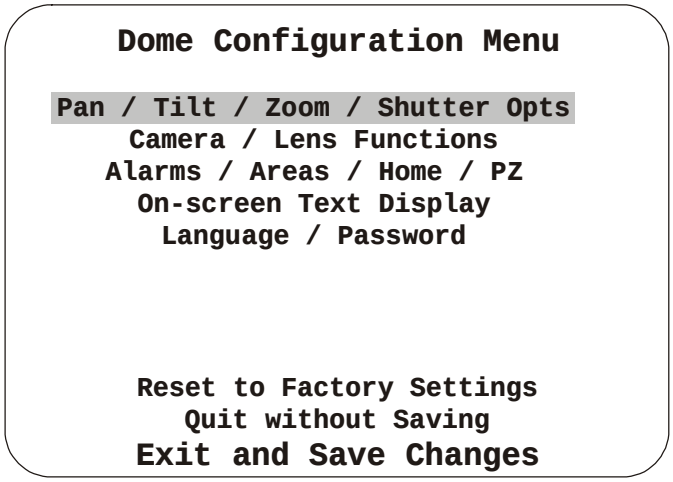
What is the Dome Configuration Utility?

The Dome Configuration Utility provides a means to setting features for your camera dome via a text overlay menu. You access this utility using a keystroke combination on your camera controller. The utility provides settings relating to camera functions, alarms, text display, privacy zones, direction indicators and password protection. Some items supplement similar features that may be available through your controller.

Refer to your keyboard or TOUCH TRACKER operating instructions for information about button locations mentioned in this document.

Starting the Dome Configuration Utility

1. Select the dome that you need to configure. Refer to the controller operating instructions for specific information.
2. Do one of the following:
   - If the dome is installed in a ***SensorNet*** or ***RS-422*** operating network, press and hold **Iris Open**, press and hold a **Focus** button (**Near** or **Far**), then press **Zoom Out** (**Zoom Wide**).
   - If the dome is installed in a ***Manchester*** network, turn the key switch to **Prog** (or *disable the system lock* on the TOUCH TRACKER), enter **66**, then press **Set Preset** (**Set Shot**).
   - The following menu appears on the monitor:



Note If you have password protection enabled for the configuration utility, the ***Enter Password*** screen appears first. You must correctly enter the password before the ***Dome Configuration Menu*** will appear. For information about entering the password, refer to ***Entering the Dome's Password*** on page 1-4.

Working with the Dome Configuration Utility

Once the *Dome Configuration Menu* is displayed, you may select a menu item, then modify the settings you want to change. The controls used with the utility are **Pan/Tilt** (*Tracker Ball* or *Joystick*), **Focus Near**, **Focus Far**, **Zoom In** (*Zoom Tele*), **Zoom Out** (*Zoom Wide*), **Iris Open**, and **Iris Close**. For combination keystrokes, press and hold each button in sequence, then release.

The following table summarizes the controller commands used with the configuration utility.

If you want to …	*Use …*
Start the configuration utility (***SensorNet*** or ***RS-422*** only).	**Iris Open**, **Focus**, then **Zoom Out**
Start the configuration utility (***Manchester*** only).	Key switch to **Prog**, **66**, then **Set Shot**
Move the ***highlight bar.***	**Pan/Tilt**
Select the highlighted item on the screen.	**Focus**
Increase the value of the selected setting or display the ***next choice*** for the setting	**Zoom In**
Decrease the value of the selected field, or display the ***previous choice*** for the field.	**Zoom Out**
During naming, move the cursor to the ***right*** of the current character in the name.	**Zoom In**
During naming, move the cursor to the ***left*** of the current character in the name.	**Zoom Out**
Save changes and exit the utility from any screen.	**Iris Close,** then **Focus**

Tip: Remember the following when working with the *Dome Configuration Utility*:

Where no specific ***Focus*** button is mentioned, use either **Focus Near** or **Focus Far**.
Where no specific ***Zoom*** button is mentioned, use either **Zoom In** or **Zoom Out**.

Entering the Dome's Password

A dome password is used to prevent unauthorized users from starting the configuration utility. The ***Enter Password*** screen appears when the command to start the configuration utility is entered.

Users must enter the password before the Dome Configuration Menu displays. The password may be from ***1 to 8 characters*** long. To enter the password:

- The **Pan/Tilt** control moves the cursor around the character field.
- **Focus** enters the highlighted character.
- **Zoom In** moves the cursor to the right in the ***Password*** field.
- **Zoom Out** moves the cursor to the left in the ***Password*** field.

As each character in the password is selected, asterisks (*) appear in the ***Password*** field. When you have finished entering the password, use the **Pan/Tilt** control to move the highlight bar to ***Continue***, then press **Focus**. If the correct password has been entered, the *Dome Configuration Menu* appears. If the correct password was not entered, the ***Enter Password*** screen remains on the monitor.

If you do not want to start the configuration utility, use the **Pan/Tilt** control to move the highlight bar to ***Cancel***, then press **Focus**.

I M P O R T A N T

If you forget the password, contact technical support for instructions about overriding the existing password.

For information about programming and enabling password protection, see ***Setting and Enabling the Dome Password*** on page 6-5 (***Chapter 6 , Configuring Language and Password Settings***).

Restoring Factory Settings

Some screens provide a choice to *restore factory settings*. This choice applies only to those settings currently displayed on the screen. To reset all configuration settings, choose ***Reset to Factory Settings*** from the *Dome Configuration Menu*. The following prompt appears:

Reset to Factory Settings

No

Press **Zoom** to toggle the setting. If you want to restore the factory settings, select ***Yes***, then press **Focus**. If you do not want to restore the factory settings, select ***No***, then press **Focus**.

Note Selecting ***Reset to Factory Settings*** from the *Dome Configuration Menu* does not change the following settings: *Camera Name*, *Alarm Names*, *Area Names*, *Preset Names*, *Pattern Names*, *Area Boundaries*, *Privacy Zones*, and *Presets*. To reset names to the default settings, see ***Assigning or Changing Name Information*** on page 5-12 (***Chapter 5*** , ***Configuring Text Displayed On-Screen***).

Exiting the Configuration Utility

From any screen, you can save your changes and exit the utility by pressing and holding **Iris Close**, then pressing **Focus**. From the *Dome Configuration Menu*, you have two choices for exiting the utility: ***Exit and Save Changes*** or ***Quit Without Saving***. Use the **Pan/Tilt** control to move the highlight bar up and down on the screen.

- If you want to keep the changes you made, move the highlight bar to ***Exit and Save Changes***, then press **Focus**. The utility closes.
- If you want to exit without making changes, move the highlight bar to ***Quit Without Saving***, then press **Focus**. The following prompt appears on the screen:

Data Not Saved. Quit Anyway?

No

Press **Zoom** to toggle the setting. To cancel the changes, select ***Yes***, then press **Focus**. To keep the changes, select ***No***, then press **Focus**. If you choose ***No***, the *Dome Configuration Menu* is displayed.

I M P O R T A N T

If areas are programmed, you cannot restore the old area boundaries by quitting without saving changes from the *Dome Configuration Menu*. Areas are the only settings that will not be restored by selecting ***Quit Without Saving***.

Where To Go Next

Now that you understand how to start and work with the configuration utility, you are ready to begin changing the settings for your dome. Use the following chart to determine which chapters you should use next.

Chapter	*Topics Covered*
Chapter 2: Configuring Pan, Tilt, Zoom, and Shutter Options	– Set the "flip" feature to rotate the dome 180° – Set the first zoom stop (***22X*** or ***33X***) and maximum zoom (up to ***176X***) – Set the open shutter options to improve camera performance in low light situations
Chapter 3: Configuring Camera and Lens Functions	– Set line lock to prevent vertical rolling when switching between cameras – Enable automatic or manual Gain settings – Enable automatic or manual White Balance settings (red and blue values)
Chapter 4: Configuring Alarms, Areas, Home, and Privacy Settings	– Set alarm actions to initiate a preset, pattern, or no action when alarm conditions are detected – Configure normal input states for alarms to be open or closed – Send input states to host controller – Set a "home" position for dome – Establish a North position for use with the direction indicators – Program Privacy Zones to prevent operators from viewing restricted areas – Program area boundaries – Program presets
Chapter 5: Configuring Text Displayed On-Screen	– Display or hide dome status information – Display or hide camera, preset, pattern, area or alarm name information – Display diagnostic information or "splash" screen during dome reset – Display direction indicators – Assign names to camera, presets, patterns, areas, and alarms – Reset all names to factory defaults – Set text attributes (outline and translucent characters)

Chapter	*Topics Covered*
Chapter 6: Configuring Language and Password Settings	– Choose the language for the menus and prompts – Set a password to limit access to the dome configuration utility – Enable or disable password protection

Keeping Records for the Dome's Settings

Keep records for each SpeedDome Ultra V Camera Dome installed at your facility. ***Appendix A, Records***, summarizes the default values for each configuration setting. Space is provided for writing information about the settings you change. Note any changes you make to the dome settings.

NOTES:

CHAPTER 2

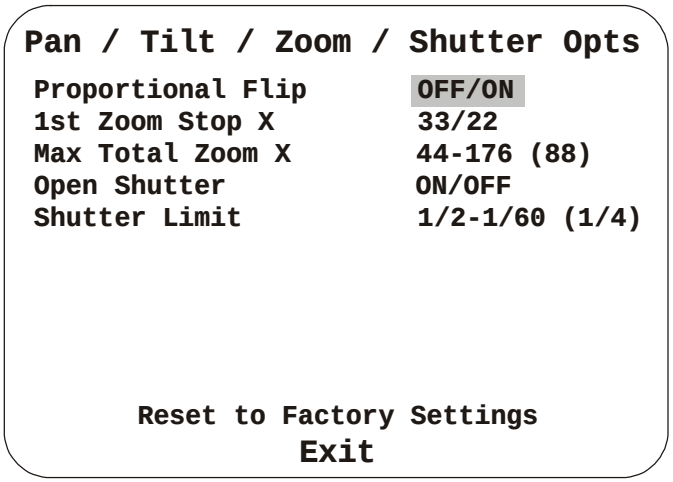
Configuring Pan, Tilt, Zoom, and Shutter Options

This chapter describes the use of the ***Pan/Tilt/Zoom/Shutter Opts*** menu. Use this screen to set the *Auto Flip* feature, configure the *Zoom Stop Settings*, and enable the *Open Shutter* feature.

In This Chapter

Overview of Pan / Tilt/ Zoom / Shutter Options Screen

When ***Pan/Tilt/Zoom/Shutter Opts*** is selected from the *Dome Configuration Menu*, the following screen appears:



Use this screen to enable or disable the "automatic flip" feature, configure the zoom stop settings, and enable the advanced shutter features.

- To move the highlight bar use the **Pan/Tilt** control.
- Pressing **Zoom** changes the value of the selected setting.
- To change the settings for this screen to the factory defaults, move the highlight bar to ***Reset to Factory Settings***, then press **Focus**.
- To return to the *Dome Configuration Menu*, move the highlight bar to ***Exit***, then press **Focus**.
- To save changes and exit the configuration utility, press **Iris Close**, then press **Focus**.

Tip: Remember the following when working with the *Dome Configuration Utility*:

If a specific **Focus** button is not mentioned, use either ***Focus Near*** or ***Focus Far***.
If a specific **Zoom** button is not mentioned, use either ***Zoom In*** or ***Zoom Out***.

Setting the Automatic “Flip” Feature

Use the automatic (or proportional) “flip” feature when you need to track someone who walks directly under the dome and continues on the other side. You start the flip by moving the tilt control to its lower limit and holding for a brief period. When the flip engages, the dome automatically rotates 180°. You may then continue to track the person as long as the tilt control stays in its lower limit. Once the tilt control is released, the dome resumes normal operation.

By default, the dome is installed with the automatic flip feature disabled. In this situation, the dome stops when the tilt down reaches its lower limit.

Changing the Automatic Flip Setting

1. Select *Pan/Tilt/Zoom/Shutter Opts* from the *Dome Configuration Menu*.

   The highlight bar appears on the ***Proportional Flip*** setting.

2. Press **Zoom** to toggle the setting.

   - Select ***On*** to enable the flip feature.
   - Select ***Off*** to disable the flip feature.

   The default setting is Off.

3. Do one of the following:

   - To change the zoom stop settings continue with ***Adjusting the Zoom Stop Factors*** on page 2-4.
   - To change the open shutter settings continue with ***Understanding How Advanced Shutter Settings Improve Low-Light Performance*** on page 2-5.
   - To change the other dome settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 2-7.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome resumes normal operation.

Adjusting the Zoom Stop Factors

The SpeedDome Ultra V includes a ***22X*** optical zoom camera with ***8X*** digital zoom capability. The maximum possible zoom is ***176X***. *Zoom stop factors* define how the zoom function is partitioned. Depending on the current zoom setting, the camera will either stop at the first zoom stop setting or continue to the maximum zoom setting. The following example explains how zoom stop factors work.

The default camera settings are ***33X*** for the first zoom stop setting and ***88X*** for the maximum zoom setting. If the zoom factor is less than 33X, pressing **Zoom In** continuously causes the zoom to stop at 33X. If the zoom factor is 33X or greater, pressing **Zoom In** continuously causes the zoom to stop at the maximum zoom setting of 88X. The second zoom stop remains in effect until the zoom factor is reduced to less than the first zoom stop factor (33X) and the zoom button is released for one second or longer. To achieve higher zoom levels, change the maximum zoom setting.

2X is the margin of error for the zoom stop factors.

Changing the Zoom Stop Settings

1. Select *Pan/Tilt/Zoom/Shutter Opts* from the *Dome Configuration Menu*.
2. To change the first zoom stop, continue with step 3. To change the maximum zoom setting, continue with step 5.
3. Use the **Pan/Tilt** control to move the highlight bar to ***1st Zoom Stop X***. Press **Zoom** to change the setting.
   - Select ***22*** to set the first zoom stop to *22X* magnification.
   - Select ***33*** to set the first zoom stop to *33X* magnification.

   The default setting is 33X.
4. To change the maximum zoom setting, continue with step 5. Otherwise, continue with step 6.
5. Use the **Pan/Tilt** control to move the highlight bar to the ***Max Total Zoom X*** setting. Press **Zoom** to change the value of the setting.
   - **Zoom In** increases and **Zoom Out** decreases the value of the setting.
   - The values for the setting are: ***44, 55, 66, 77, 88, 99, 110, 121, 132, 143, 154, 165,*** and ***176X*** magnification.

   The default setting is 88X.
6. Do one of the following:
   - To change the open shutter settings continue with ***Understanding How Advanced Shutter Settings Improve Low-Light Performance*** on page 2-5.

- To change the automatic flip setting continue with ***Setting the Automatic "Flip" Feature*** on page 2-3.
- To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 2-7.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Understanding How Advanced Shutter Settings Improve Low-Light Performance

The SpeedDome Ultra V supports the ability to view images from extremely low-light situations. This feature is called ***Open Shutter*** and is only in effect during low-light situations where an image would not be obtainable otherwise. It does not effect the camera performance in normal or bright light situations.

When the Open Shutter is enabled ***and*** the scene illumination is too low to obtain a clear image at the normal video rate, the camera collects luminance information from multiple fields. The camera compensates for the collection of luminance information across multiple fields by temporarily storing the current video information. This video information is retransmitted until new information is available from the camera. Under these conditions, the video displayed on the monitor appears more blurred, choppy, and with more static than video obtained under normal lighting conditions.

The ***Shutter Limit*** value sets the video update time in fractions of a second. Depending on the lighting conditions, the video information may be updated more frequently, but no slower than the limit set.

The following illustrates a Shutter Limit of 1/4.

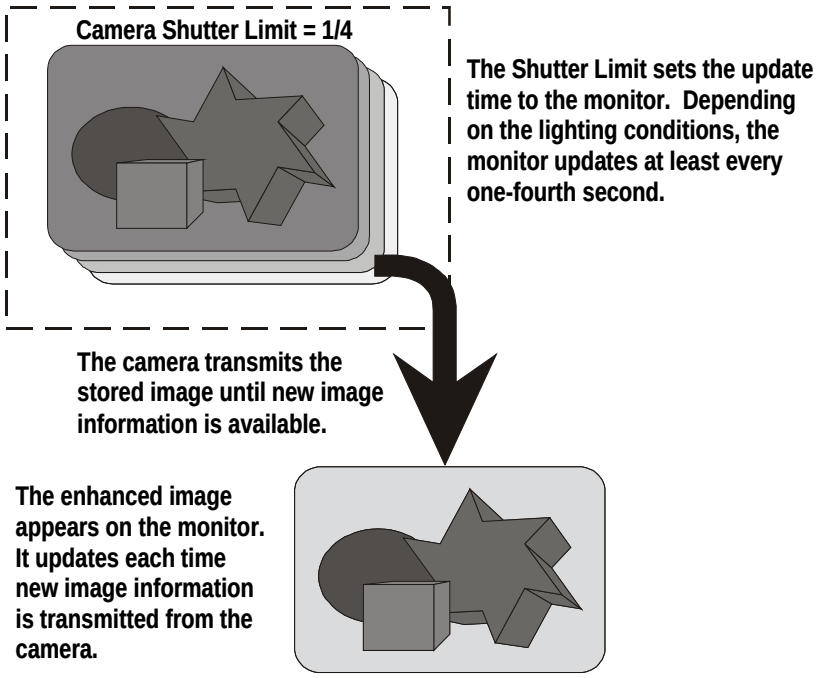


Figure 2-1: Graphical view of Shutter Limit settings

Adjusting the Shutter Limit sets the update time used to maintain the image quality. If you want to videotape an incident in low-light conditions, you may find that tape quality is not acceptable. To ensure that the videotape quality is acceptable for possible prosecution purposes, you may want to test the Shutter Limit settings under the expected lighting conditions.

Adjusting Open Shutter Settings to Optimize Low-Light Performance

1. Select *Pan/Tilt/Zoom/Shutter Opts* from the *Dome Configuration Menu*.
2. Move the highlight bar to ***Open Shutter***. Use **Zoom** to toggle the setting.
   - Select ***On*** to enable the Open Shutter feature. This allows for improved performance in low light situations.
   - Select ***Off*** to disable the Open Shutter feature. This allows for normal performance in low light situations.

   The default setting is On.
3. If *Open Shutter* is enabled, you may adjust the ***Shutter Limit*** setting, continue with step 4. If finished, continue with step 5.
4. Move the highlight bar to *Shutter Limit*. Press **Zoom** to change the setting.
   - The shutter limit values range from ***1/60*** (fastest) to ***1/2*** (slowest).
   - Changing this value sets the maximum video update time in fractions of one second.

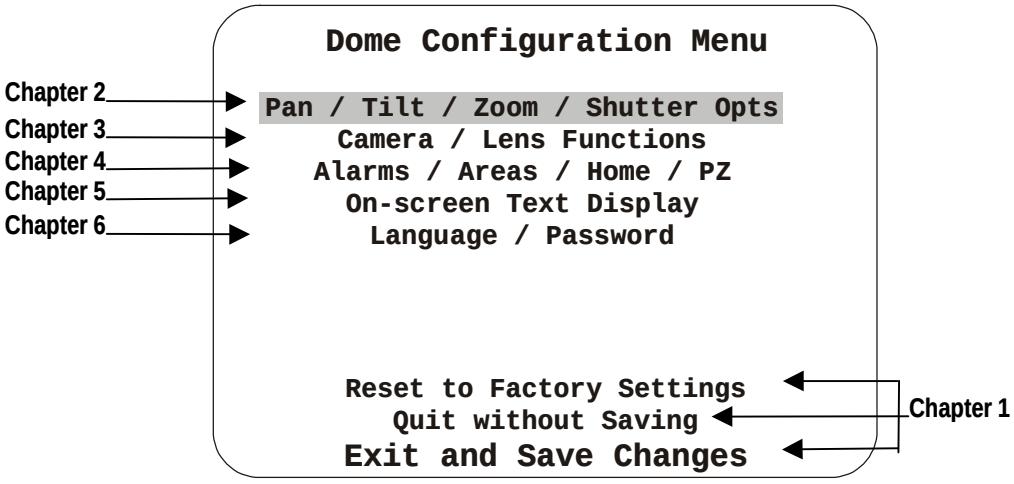
   The default value is 1/4 (2 frames/second).

5. Do one of the following:

   - To change the automatic flip setting continue with ***Setting the Automatic "Flip" Feature*** on page 2-3.
   - To change the zoom stop settings continue with ***Adjusting the Zoom Stop Factors*** on page 2-4.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 2-7.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

What To Do Next

When you select ***Exit*** from the *Pan/Tilt/Zoom/Shutter Opts* screen, the *Dome Configuration Menu* appears.



From this screen you can:

- Select an option to make additional changes.
- Restore all settings to the factory defaults.
- Exit the utility without saving changes.
- Save the changes and exit the utility.

Use the **Pan/Tilt** control to move the highlight bar to selection you want to use, then press **Focus**. Refer to the related chapter for additional information.

NOTES:

C H A P T E R 3

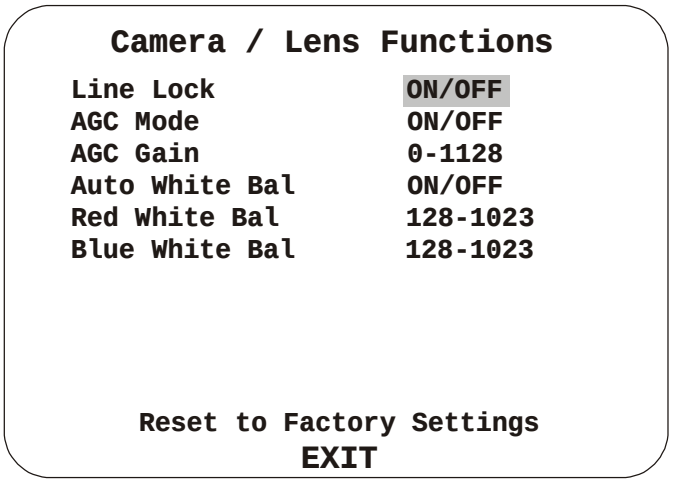
Configuring Camera and Lens Functions

This chapter describes those settings used to control the camera and lens functions. It describes how to change the *line lock, automatic gain control* and *white balance* settings to improve camera performance.

In This Chapter

Overview of Camera and Lens Settings

When ***Camera / Lens Functions*** is selected from the *Dome Configuration Menu*, the following screen appears:



From this screen you can set the line lock to prevent video rolling, set automatic gain control to either automatic or manual, and adjust the white balance settings.

- To move the highlight bar, use the **Pan/Tilt** control.
- Pressing **Zoom** changes value of the selected setting.
- To change the settings for this screen to the factory defaults, move the highlight bar to ***Reset to Factory Settings***, then press **Focus**.
- To return to the *Dome Configuration Menu*, move the highlight bar to ***Exit***, then press **Focus**.
- To save changes and exit the configuration utility, press **Iris Close**, then press **Focus**.

Tip: Remember the following when working with the Configuration Utility:

If a specific **Focus** button is not mentioned, use either ***Focus Near*** or ***Focus Far***.
If a specific **Zoom** button is not mentioned, use either ***Zoom In*** or ***Zoom Out***.

Configuring the Line Lock Setting

Use the ***Line Lock*** setting to prevent vertical rolling or adjust the appearance of overlay text on color monitors.

If you experience problems with vertical video rolling when switching multiple cameras to a single monitor, enabling the *Line Lock* setting phase locks the video with the AC power line. All cameras connected to the same power supply will be synchronized. This synchronization prevents the video from rolling vertically when cameras are switched.

With the Line Lock disabled, the appearance of text displayed on color monitors may be improved. However, the video will no longer be phase locked with the AC power line. Video may roll vertically when switching between cameras.

Changing the Line Lock Setting

1. Select *Camera / Lens Functions* from the *Dome Configuration Menu*.

   The highlight bar appears on the *Line Lock* setting.

2. Press **Zoom** to change the setting.

   - Select ***On*** to enable the line lock. This phase locks the video with the AC power line to prevent video rolling.
   - Select ***Off*** to disable the line lock. This stops the phase lock, but may improve the appearance of text displayed on color monitors.

   The default setting is On.

I M P O R T A N T

Changing the *Line Lock* setting is not immediate. The dome must reinitialize (reset) for the change to take place. When the configuration utility is exited, the following prompt appears:

DOME MUST RESET TO
CHANGE LINE LOCK MODE.
RESET DOME NOW? ***NO***

Press **Zoom** to toggle the selection.

- If you do not want to reinitialize the dome, select ***No***, then press **Focus**. Changes to the Line Lock setting will not take effect.
- If you want to reinitialize the dome, select ***Yes***, then press **Focus**. Changes to the Line Lock setting will take effect when the dome finishes the reset.

---

3. Do one of the following:

   - To change to the automatic gain control settings continue with ***Adjusting Automatic Gain Control Settings*** on page 3-4.

- To change the white balance settings continue with ***Adjusting White Balance Settings*** on page 3-5.
- To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 3-8.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Adjusting Automatic Gain Control Settings

Automatic Gain Control (***AGC***) amplifies the video signal in scenes with minimal light. Many low-light scenes result in picture noise. As gain is increased, the picture noise is also amplified.

When AGC is enabled, the gain setting value is based on feedback from the camera. When AGC is disabled, the camera uses the manual gain setting value. The trade-off between picture level and noise may be adjusted when AGC is disabled.

In addition to the AGC settings, you may also adjust the *Open Shutter* settings to improve dome performance in low light situations. For more information, see ***Understanding How Advanced Shutter Settings Improve Low-Light Performance*** on page 2-5 (***Chapter 2 , Configuring Pan, Tilt, Zoom, and Shutter Options***).

Tip: ***AGC Mode*** must be set to ***Off*** to manually adjust the ***AGC Gain*** setting.

Configuring Automatic Gain Control Settings

1. Select *Camera / Lens Functions* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to the *AGC Mode* setting.
3. Press **Zoom** to change the setting.
   - Select ***Off*** to set the AGC to manual mode. This allows you to manually adjust the AGC Gain setting. Continue with step 4.
   - Select ***On*** to set the AGC to automatic mode. This adjusts the AGC Gain setting based on feedback from the camera. Continue with step 5.

   The default setting is On.
4. Use the **Pan/Tilt** control to move the highlight bar to the *AGC Gain* setting. Press **Zoom** to change the setting.
   - Press **Zoom Out** to decrease value of the setting.
   - Press **Zoom In** to increase the value of the setting.

The setting value ranges from 0 to 1128.

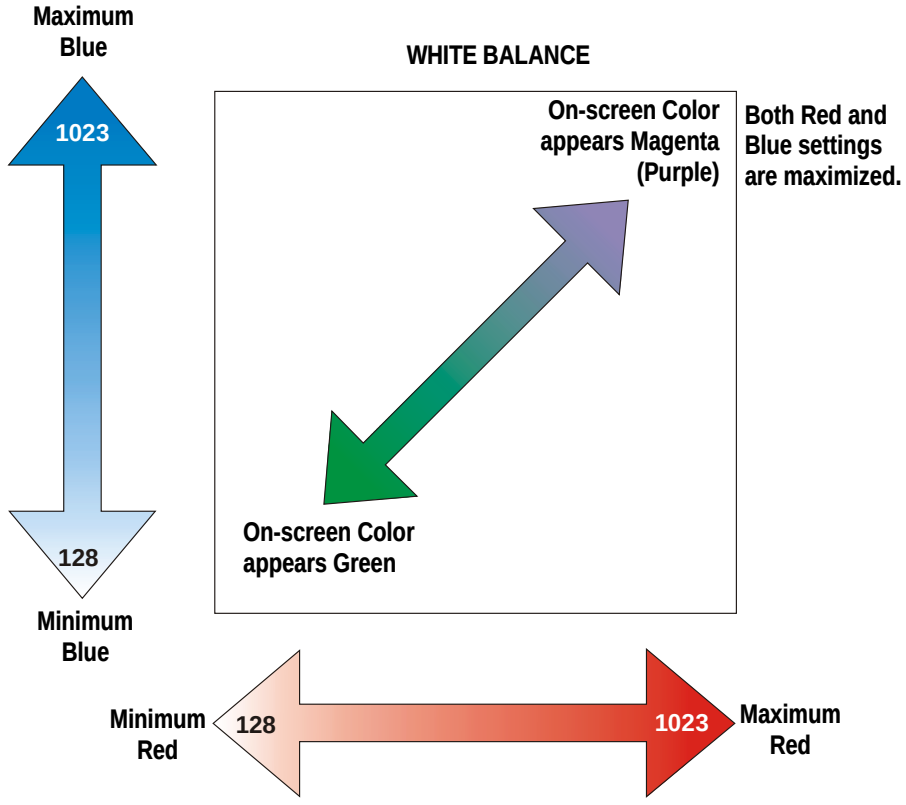
5. Do one of the following:

   - To change the line lock setting continue with ***Configuring the Line Lock Setting*** on page 3-3.
   - To change the white balance settings continue with ***Adjusting White Balance Settings*** on page 3-5.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 3-8.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Adjusting White Balance Settings

White balance is normally compensated for by the automatic white balance gain control. In some lighting conditions, you may need to manually adjust the red and blue settings for optimal viewing.

When *Automatic White Balance* is enabled, the red and blue setting values are based on feedback from the camera. When *Automatic White Balance* is disabled, the camera uses the red and blue setting values to control the white balance. The following illustrates the relationship between the red and blue settings to white balance.



As the value for the red setting increases, the image appears redder; as the value decreases, the image appears less red. The range of the red setting is 128 (minimum red) to 1023 (maximum red).

As the value for the blue setting increases, the image appears bluer; as the value decreases, the image appears less blue. The range for the blue setting is 128 (minimum blue) to 1023 (maximum blue).

As the values for both the red and blue settings are increased, the image appears more magenta (purple). As the values for both the red and blue settings are decreased, the image appears greener.

Tip: ***Auto White Bal*** must be set to ***Off*** to manually change the ***Red White Bal*** and ***Blue White Bal*** settings.

Setting the Automatic White Balance Feature

1. Select *Camera / Lens Functions* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to the *Auto White Bal* setting.
3. Press **Zoom** to change the setting.
   - Select ***On*** for automatic white balance. Continue with step 8.
   - Select ***Off*** to manually adjust the red or blue settings. Continue with step 4.

   The default setting is On.
4. Do one of the following:
   - To change the red setting, use the **Pan/Tilt** control to move the highlight bar to *Red White Bal*, then continue with step 5.
   - To change the blue setting, continue with step 6.
5. Press **Zoom** to adjust the red setting. The values range from ***128 to 1023***.
   - **Zoom In** increases the value of the setting.
   - **Zoom Out** decreases the value of the setting.

   There is no default value for the red setting.
6. Do one of the following:
   - To make change the blue setting, use the **Pan/Tilt** control to move the highlight bar to *Blue White Bal*, then continue with step 7.
   - If you are finished making changes, continue with step 8.

7. Press **Zoom** to adjust the blue setting. The values range from ***128 to 1023***.

   - **Zoom In** increases the value of the setting.
   - **Zoom Out** decreases the value of the setting.

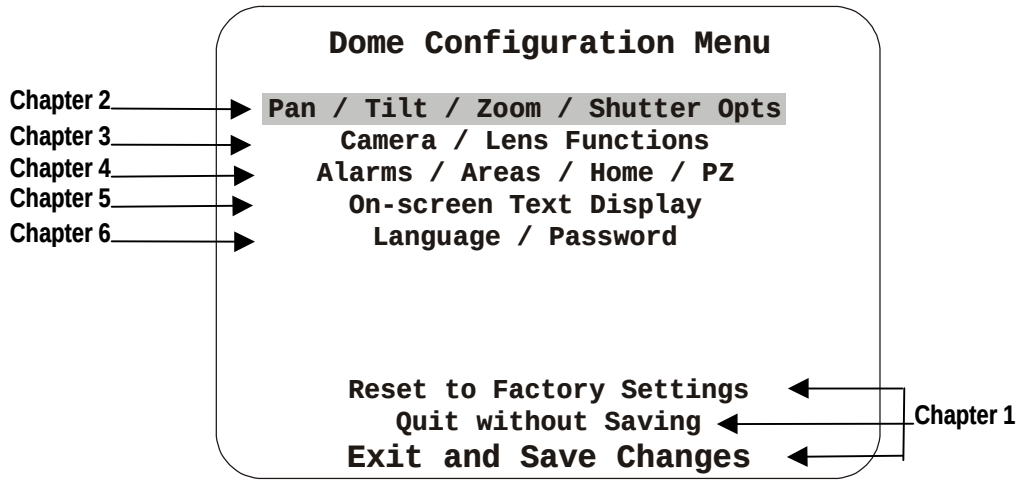
   There is no default value for the blue setting.

8. Do one of the following:

   - To changes the Line Lock setting continue with ***Configuring the Line Lock Setting*** on page 3-3.
   - To change the AGC settings continue with ***Adjusting Automatic Gain Control Settings*** on page 3-4.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 3-8.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

What To Do Next

When you select ***Exit*** from the *Camera / Lens Functions* screen, the *Dome Configuration Menu* appears.



From this screen you can:

- Select an option to make additional changes.
- Restore settings to the factory defaults.
- Exit the utility without saving changes.
- Save the changes and exit the utility.

Use the **Pan/Tilt** control to move the highlight bar to selection you want to use, then press **Focus**. Refer to the related chapter for additional information.

CHAPTER 4

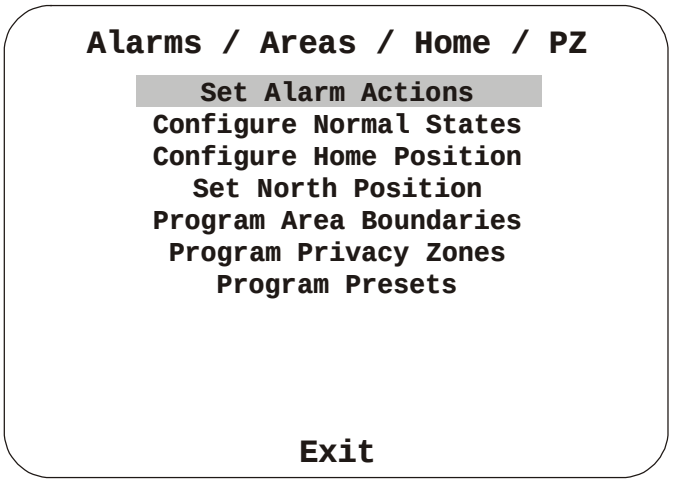
Configuring Alarms, Areas, Home, and Privacy Settings

This chapter describes those settings associated with *Alarms*, *Areas*, the *Home Position* and *Privacy Zones*. It explains how set a default action to run when a dome alarm occurs, as well as how to define the normal alarm input state. It explains how to set a default position for the dome and assign a dome position that corresponds with North. It also explains how to program Areas, Privacy Zones, and *Presets*.

In This Chapter

Overview of Alarms, Areas, and Home Position Settings

When ***Alarms/Areas/Home/PZ*** is selected from the *Dome Configuration Menu*, the following screen is displayed:



From this menu you can choose to configure alarm actions, configure normal states for alarm inputs, assign the "home position", establish the north position for the dome, set area boundaries, program privacy zones, and program presets.

- To move the highlight bar, use the **Pan/Tilt** control. Press **Focus** to make a selection.
- Pressing **Zoom** changes the value of the settings on the subsequent screens.
- To return to the *Dome Configuration Menu*, move the highlight bar to ***Exit***, then press **Focus**.
- To save changes and exit the configuration utility, press **Iris Close**, then **Focus**. The dome returns to normal operation.

Tip: Remember the following when working with the *Dome Configuration Utility*:

If a specific **Focus** button is not mentioned, use either ***Focus Near*** or ***Focus Far***.
If a specific **Zoom** button is not mentioned, use either ***Zoom In*** or ***Zoom Out***.

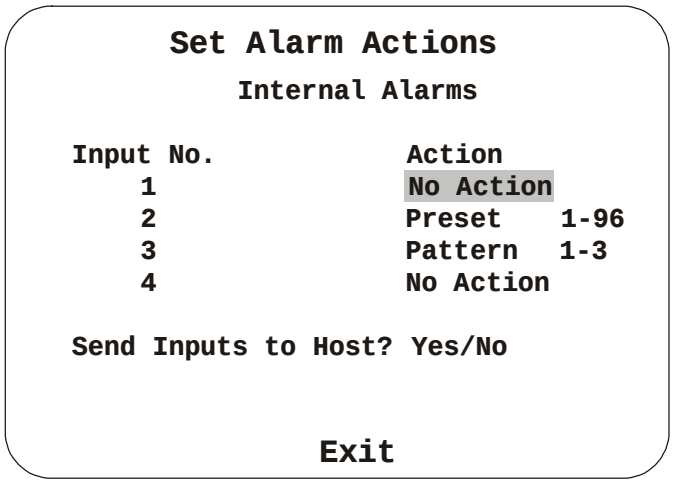
Configuring Alarm Actions

I M P O R T A N T

When operating on ***Manchester networks***, the dome can be programmed to respond to any of the four available alarm inputs. However, the dome cannot transmit alarm input states to the host controller. If transmitting the alarm state to the host controller is required, the alarm device must be wired directly to the host controller.

The dome provides four alarm inputs. By connecting alarm devices, such as smoke alarms, twilight sensors, or motion sensors, you can enhance the usefulness of your video surveillance system. You can further improve your video surveillance by assigning a dome action (a preset or pattern) to start whenever an alarm input changes from normal to abnormal.

When ***Set Alarm Actions*** is selected from *Alarms/Areas/Home/PZ* screen, the following screen is displayed:



Use this screen to assign a preset or pattern to occur whenever the alarm's input state changes from normal to abnormal. You may also choose to have no action to occur when the alarm's input state changes.

Alarms can be processed internally by the dome, externally by the controller, or both. You may choose to send changes in the input state to the host controller. If the changes in input state are sent to the host controller, the host actions have higher priority than the associated dome actions.

Note An active internal alarm only resets when the input state changes to “normal.” A manual reset ***is not*** available.

Configuring Alarm Actions

I M P O R T A N T !

Certain controllers allow the alarm actions for domes to be specified at the controller. These controllers include VM16 Plus, VM32, VM96, ADTT16, AD32, AD matrices with AD2083-02A code units, or AD168 with CCM or AD2083-02A. Do not use both the dome configuration utility and the controller to assign the alarm actions for the same input. ***Use only the dome configuration utility or the controller to the assign the alarm actions.***

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.

   The highlight bar appears on the ***Set Alarm Actions*** option. Press **Focus** to select.

2. The *Set Alarm Action* screen appears. Use the **Pan/Tilt** control to move the highlight bar to the appropriate alarm input.

3. Press **Zoom** to change the setting.

   - Select ***Preset*** to use a preset as the alarm action. Continue with step 4.
   - Select ***Pattern*** to use a pattern as the alarm action. Continue with step 6.
   - Select ***No Action*** if you do not want to set an alarm action. Continue with step 6.

   The default setting is No Action.

4. Use the **Pan/Tilt** control to move the highlight bar to the ***Action Number*** field, then press **Zoom** to change the setting.

   - For *preset*, select the number from ***1 through 96*** for *SensorNet* or *RS-422* or ***1 through 64*** for *Manchester*.

     Preset programming automatically starts if the selected preset has not been programmed. See ***Programming Presets*** on page 4-21.

     If the preset has been programmed, continue with step 5.

   - For *pattern*, the select the number from ***1 through 3*** for the pattern you want to assign. Continue with step 5.

5. If you need to make additional changes to the alarm actions for this dome, repeat steps 2 through 4. When finished, continue with step 6.

6. Use the **Pan/Tilt** control to move the highlight bar to ***Send Inputs to Host?*** Press **Zoom** to change the setting.

   - Choose ***Yes*** to forward changes in input states to the host controller. Continue with step 8.
   - Choose ***No*** to prevent changes in the input states from being forwarded to the host controller. Continue with step 8.

   The default setting is Yes.

7. Use the **Pan/Tilt** control to move the highlight bar to ***Exit***. Press **Focus** to return to the *Alarm/Areas/Home/PZ* screen, then continue with step 8.

8. When the *Alarm/Areas/Home/PZ* screen appears, do one of the following:

   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To program a new North position continue with ***Setting the North Position*** on page 4-9.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

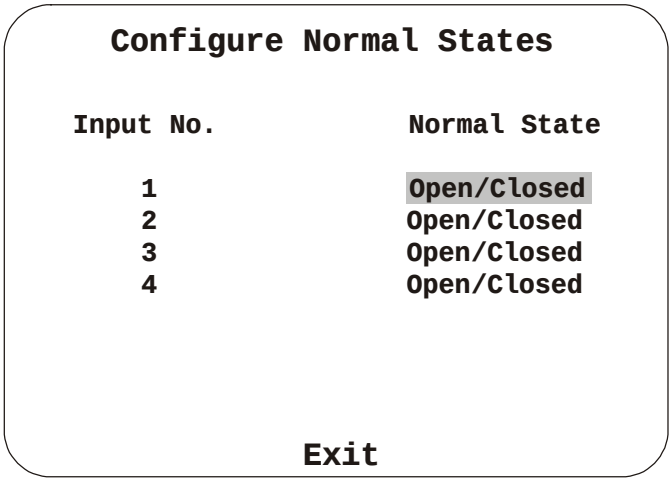
Configuring Normal Input States for Alarms

I M P O R T A N T

Certain controllers allow the normal input states for domes to be specified at the controller. These controllers include VM96, AD matrices with AD2083-02A code units or AD168 matrix with AD168CCM or AD2083-02A code unit. Do not use both the dome configuration utility and the controller to assign the normal input states. ***Use only the dome configuration utility or the controller to the assign the normal input states.***

The normal input state for an alarm is state that the device should be in when an alarm is not occurring. For example, you have a smoke detector. Under normal circumstances, the smoke detector should not be detecting smoke. When smoke is detected, the alarm input changes states (from open to closed) and an alarm is issued.

To configure the normal state for the alarm, select ***Configure Normal States*** from the *Alarm/Areas/Home/PZ* screen. The following screen is displayed:



Use this screen to assign open or closed as the normal state for the dome alarm inputs. When an input state changes from normal to abnormal *and* an internal alarm action is associated with the input, the alarm is triggered. The normal state is used by both internal alarms and controller defined alarms.

I M P O R T A N T !

When operating on *Manchester networks*, the dome can be programmed to respond to any of the four available alarm inputs. However, the alarm input states cannot be transmitted to the host controller. If transmitting the alarm input state to the host controller is required, the alarm device must be wired directly to the host controller.

Setting Normal Input States

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Configure Normal States***, then press **Focus**.
3. Use the **Pan/Tilt** control to move the highlight bar to the appropriate input line. Press **Zoom** to toggle the setting.
   - Select ***Open*** if the normal input state is open.
   - Select ***Closed*** if the normal input state is closed.

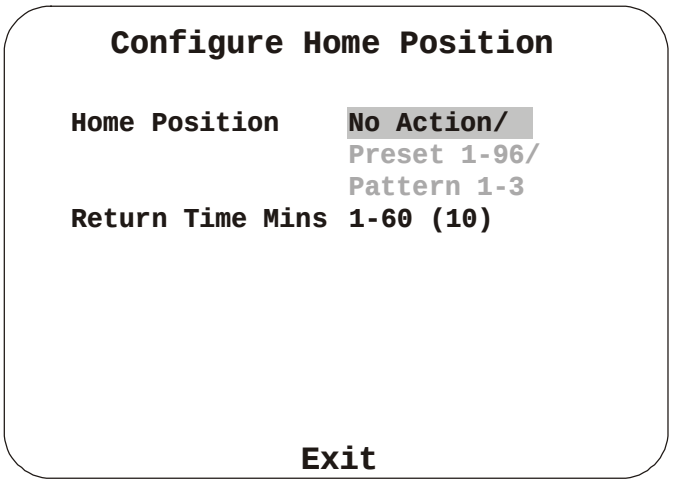
   The default setting is Open.

   Note: In most cases, the normal input state for a dome's input should match the contact type of the connected switch. For example, assigning a normal input state of "closed" when the contact type for the switch is "open" triggers an internally defined dome alarm when the input changes from closed to open.
4. Repeat step 3 for each input requiring change. When finished, continue with step 5.
5. Use the **Pan/Tilt** control to move the highlight bar to *Exit*. Press **Focus** to return to the *Alarms/Areas/Home/PZ* screen.
6. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:
   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To make changes to other settings, use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Assigning the Dome's Home Position

The home position is a preset or pattern that automatically runs after a designated period of dome inactivity. Use this if you want a specific area to be under surveillance after an operator stops operating the dome.

To assign the home position, select ***Configure Home Position*** from the *Alarms/Areas/Home/PZ* screen. The following is displayed:



Tip: When a pattern is selected as the home position, the pattern runs until stopped manually by issuing a camera command, such as **Tilt** or **Focus**.

Setting the Home Position

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Configure Home Position***, then press **Focus**.

   The highlight bar appears on the ***Home Position*** setting.
3. Press **Zoom** to change the setting.
   - Select ***Preset*** to use a preset as the home position. Continue with step 4.
   - Select ***Pattern*** to use a pattern as the home position. Continue with step 4.
   - Select ***No Action*** if you do not want to set a home position. Continue with step 6.

   The default setting is No Action.
4. Use the **Pan/Tilt** control to move the highlight bar to the ***Number*** field, then press **Zoom** to change the setting.

- For *preset*, select the number from ***1 through 96*** for *SensorNet* or *RS-422* or ***1 through 64*** for *Manchester*.

  Preset programming automatically starts if the selected preset has not been programmed. See ***Programming Presets*** on page 4-21.

  If the preset has been programmed, continue with step 5.

- For *pattern*, select the number from ***1 through 3*** for the pattern you want to assign. Continue with step 5.

5. Use the **Pan/Tilt** control to move the highlight bar to ***Return Time Mins***. Press **Zoom** to set the amount of time that the dome must remain inactive before returning to the home position.

   - **Zoom In** increases the setting; **Zoom Out** decreases the setting.
   - The setting ranges from ***1 to 60 minutes***.

     The default setting is 10 minutes.

6. Use the **Pan/Tilt** control to move the highlight bar to ***Exit***. Press **Focus** to return to the *Alarms/Areas/Home/PZ* screen. Continue with step 7.

7. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:

   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the North position continue with ***Setting the North Position*** on page 4-9.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Setting the North Position

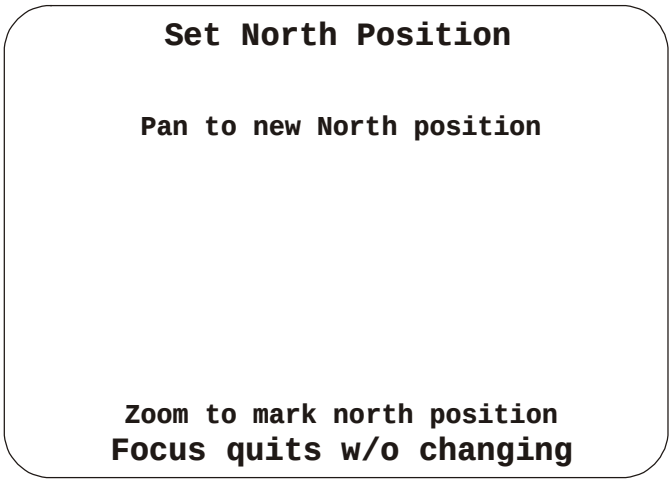
Direction Indicators permit you to understand the approximate pointing position of the dome to an established reference point. This reference point is referred to as "North" and may correspond to magnetic north (if it is known) or some other landmark or fixture. When the dome is initially installed, “north” defaults to a pre-defined position (0° pan/tilt). You may program the “North” position to be any point along the dome's pan axis (also called ***azimuth***).

For more information about Direction Indicators, see ***Displaying Direction Indicators*** on page 5-7 (***Chapter 5*** , ***Configuring Text Displayed On-Screen***).

Programming the North Position

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Move the highlight bar to ***Set North Position***. Press **Focus**.

   The *Set North Position* screen displays.



3. Use the **Pan/Tilt** control to point the dome to the new North position. Press **Zoom** to save the position.

   If you do not want to change the North position, press **Focus**. The *Alarms/Areas/Home/PZ* screen appears.

4. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:

   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.

- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Programming Area Boundaries

If the dome is installed in a location where you can see numerous departments or other identifiable landmarks, you might want to consider programming area boundaries. ***Areas*** are programmed start and end points of a camera's field of view. Each area is a part of a circular viewing area that extends around the dome. The areas can be different sizes, as shown in Figure 4-1:

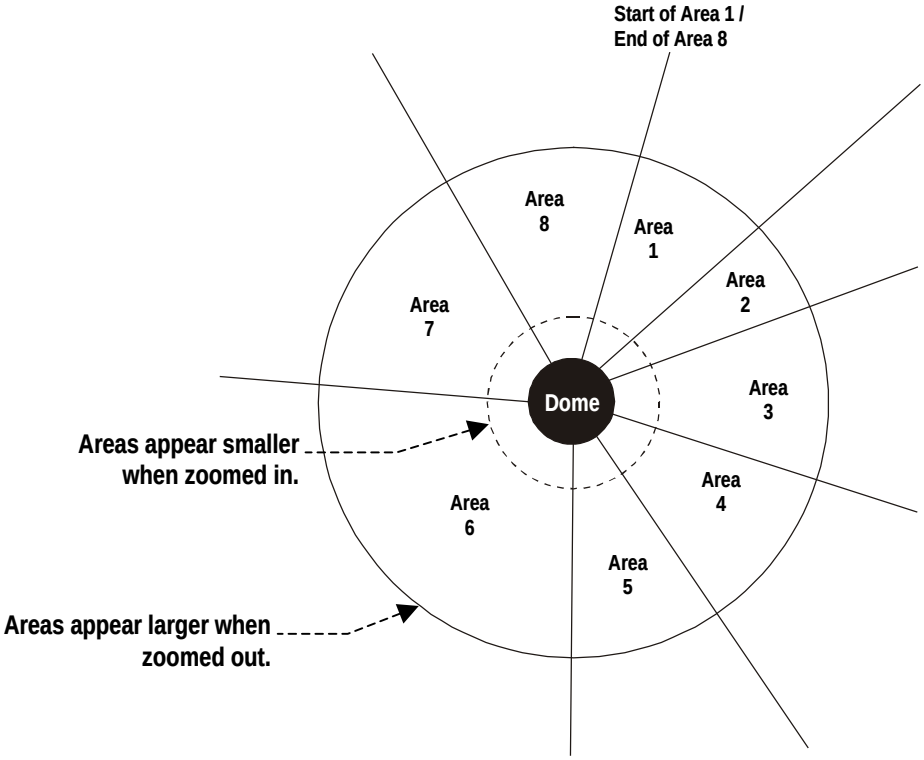


Figure 4-1: An example of areas

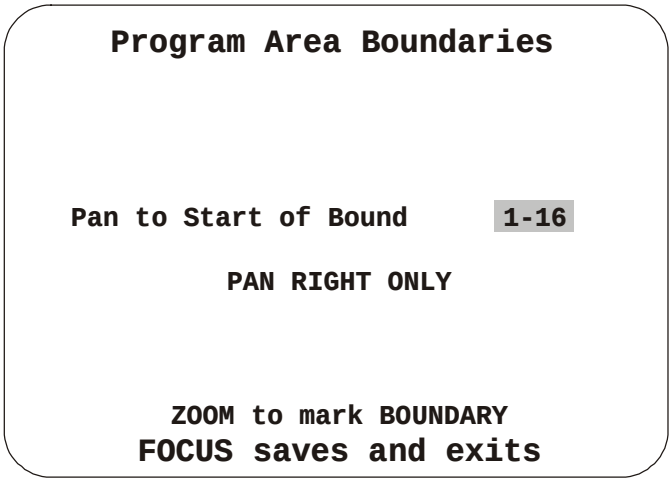
The ending point of one area is the starting point for the next area. The ending point of the last area cannot go past the starting point of the first area. If your controller supports areas, these are separate from the areas you can program with the dome. You should not use both the controller and the configuration utility to define areas.

The zoom factor also affects how large areas appear. When you zoom in to an area, the area may appear to be small. When you pan the dome, area boundaries may appear to be close. However, if you zoom out, the area appears to be larger. When you pan the dome, the area boundaries appear further apart. With this in mind, it will be easier to establish area boundaries if the zoom factor is small than if the zoom factor is large.

N O T E !

When areas are programmed, each area is assigned a default name. Instructions for assigning new names appear in ***Assigning or Changing Name Information*** on page 5-12 (***Chapter 5 , Configuring Text Displayed On-Screen***).

To program areas, select ***Program Area Boundaries*** from the *Alarms/Areas/Home/PZ* screen. The following screen appears:



Note: If no boundary is set, pressing **Focus** quits without making any changes.

The dome supports from 2 to 16 areas.

I M P O R T A N T

If areas are programmed, you cannot restore the previously programmed boundaries by selecting ***Quit Without Saving*** from the *Dome Configuration Menu*. Be aware of this limitation if you begin making changes the boundaries.

Setting Area Boundaries

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Programming Area Boundaries***, then press **Focus**.

   The *Program Area Boundaries* screen appears.
3. Use the **Pan/Tilt** control to position the camera at the starting point of the first area, then press **Zoom**.
4. Pan the dome to the right until the ending point of the area is seen. If you attempt to pan left, an error message appears. See the note on page 4-13 for information.
5. Press **Zoom** to set the end point of the area.

   The area number automatically advances.
6. Repeat steps 4 and 5 for each area you want to establish.

N O T E !

- If you attempt to program a boundary that passes the starting point of the first area, or
- If you move the camera left after establishing the first boundary

The following error message appears:

Error programming areas

Focus Far to continue.

Return to step 1 and start again.

7. When the last area boundary is set, press **Focus**.

   The following confirmation message appears:

   Areas saved successfully

   Focus Far to continue.

   Press **Focus Far**.

8. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:

   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

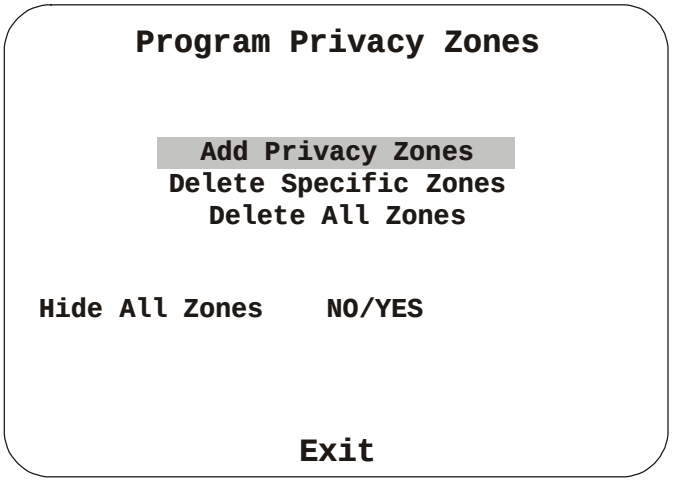
Establishing Privacy Zones

Privacy Zones are “masked” sections of the dome viewing area. These masks prevent operators of the surveillance system from viewing these designated zones. Each zone has four sides, and the zones may overlap to form irregular shapes. The Privacy Zones move in relation to the dome pan/tilt position. In addition, the apparent size of the Privacy Zone adjusts automatically as the lens zooms in or out. Up to **eight** Privacy Zones may be established for a dome.

Privacy Zones are useful for high security areas. For example, you might establish a Privacy Zone around a safe's combination. However, you could view people approaching or opening the safe.

When Privacy Zones are active, the dome's firmware automatically disables text transparency. For additional information about text appearance, see ***Changing the Settings for Text Displayed On-Screen*** on page 5-15 (***Chapter 5*** , ***Configuring Text Displayed On-Screen***).

To program Privacy Zones, select ***Program Privacy Zones*** from the *Alarms/Areas/Home/PZ* screen. The following screen is displayed:



From this screen you can program up to eight Privacy Zones, delete all or specific Privacy Zones, or temporarily hide all Privacy Zones. For more information see:

- ***Programming Privacy Zones*** on page 4-15
- ***Removing or Hiding Privacy Zones*** on page 4-17

Programming Privacy Zones

Privacy Zones are established by selecting three points on the display image to mask. The fourth point on the Privacy Zone is automatically generated by mirroring the longest axis between the three selected points. Figure 4-2 illustrates how Privacy Zones are programmed.

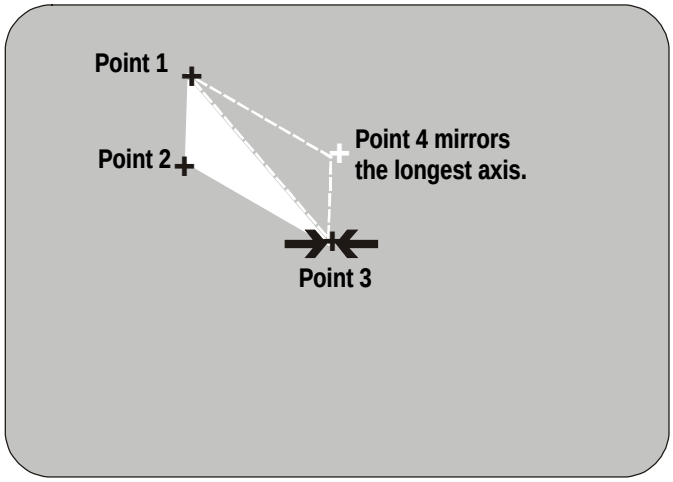


Figure 4-2: Privacy Zone programming example.

The dome's firmware prevents you from establishing a zone that is too small or too large (greater than 90-degrees pan or tilt from the starting point).

Figure 4-3 illustrates the Privacy Zone programming screen:

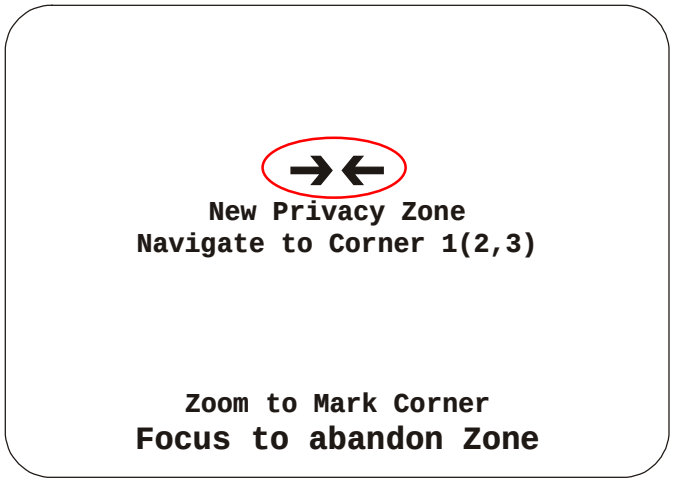


Figure 4-3: Privacy Zone Programming screen

The circled arrows represent the target area on the screen for creating the Privacy Zone. Normally, this target area remains in the center of the screen. Using the **Pan/Tilt** control moves the target area by panning or tilting the dome. If the dome reaches its maximum tilt position, the Privacy Zone may still be established in the upper part of the display. When this occurs, the arrows move relative to the movement of the **Pan/Tilt** control until the top of the display area is reached.

The boundary points on the Privacy Zone are selected by pressing **Zoom**. Once a boundary point is selected, the arrows "blink" until the target area is moved to a valid area. Once the target moves to a valid area, the arrows stop blinking. If you move the target more than 90-degrees from a selected point, the arrows begin to blink again, indicating that the boundary is too large.

If you attempt to establish a boundary point while the arrows are blinking you will receive an error message: ***Zone is Too Small*** or ***Zone is Too Large***. If this happens, you must start programming from the beginning. Pressing **Focus Far** returns you to the Privacy Zone programming screen.

If you attempt to program more than eight Privacy Zones, the following message appears on-screen: ***Maximum Allowed Number of Zones Defined***. Pressing **Focus Far** returns to the Program Privacy Zones screen. To program a new zone, you must delete at least one of the existing Privacy Zones. See ***Removing or Hiding Privacy Zones*** on page 4-17.

I M P O R T A N T

Areas of the Privacy Zone may be exposed during rapid pan / tilt movements of the dome. To compensate for this limitation, you may want to program the Privacy Zone to be 20 to 25% larger than the area you want to mask.

Programming Privacy Zones

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Move the highlight bar to ***Program Privacy Zones***. Press **Focus**.
3. The Program Privacy Zones screen appears. Press **Focus** to select ***Add Privacy Zone***.
4. Use the **Pan/Tilt** control to position the arrows over the boundary point. Press **Zoom** to create.
5. Repeat step 4 to create boundary points 2 and 3.

   Remember, if the arrows are blinking, you are not in a valid target area. Only select a point if the arrows are not blinking.
6. After the third boundary point is created, the fourth boundary point is automatically calculated. The new Privacy Zone appears on the screen. To program additional Privacy Zones, repeat steps 3 through 5. When finished, continue with step 7.
7. Move the highlight bar to ***Exit***, then press **Focus** to return to *Alarms/Areas/Home/PZ* screen.

8. Do one of the following:

   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Removing or Hiding Privacy Zones

If you made an error during programming or no longer require Privacy Zones, individual zones or all Privacy Zones may be deleted. If you need to temporarily remove the Privacy Zones, you may disable their appearance.

To delete individual Privacy Zones, you must adjust the position of the arrows to the area of the screen where the zone is recognized by the firmware. If multiple Privacy Zones are close together or overlap, the arrows blink, indicating that the selection is not allowed. Figure 4-4 illustrates Privacy Zones that are close together.

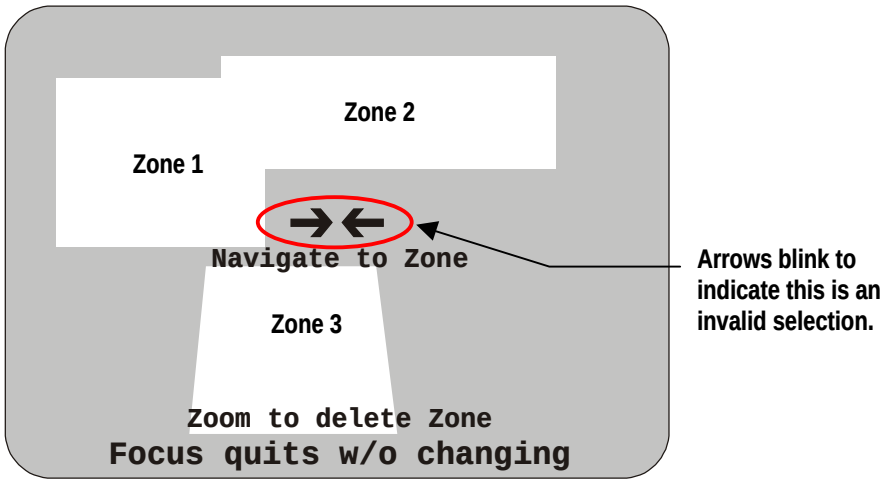


Figure 4-4: Deleting Privacy Zones – Invalid Selection

Three Privacy Zones are illustrated. Zones 1 and 2 overlap. Zone 1 and 3 are in close proximity. In this situation, the arrows blink because the target area is equidistant from all three zones.

To ensure that the correct Privacy Zone is deleted, use the **Pan/Tilt** control to place the arrows clearly in the zone you want to delete. Figure 4-5 illustrates a valid selection.

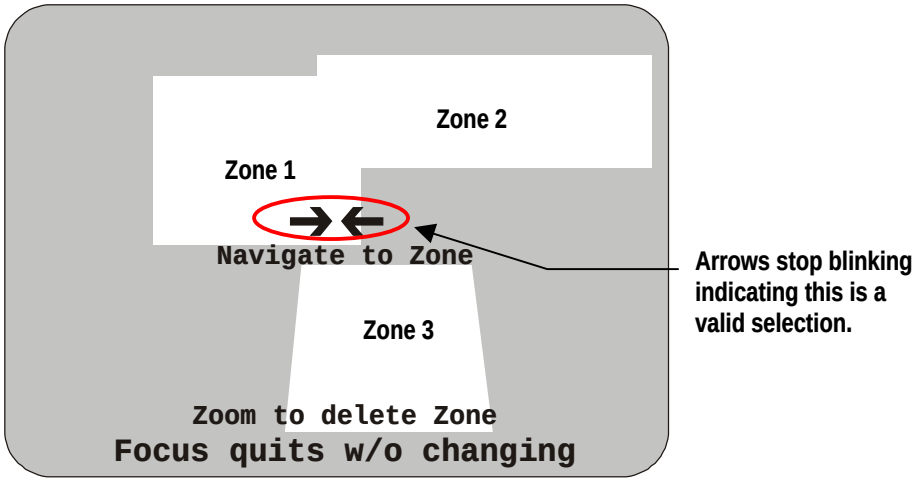


Figure 4-5: Deleting Privacy Zone – Valid Selection

By panning to the left, the arrows stop blinking when the target area enters Zone 1. Pressing **Zoom** allows you to delete Zone 1. If you do not want to delete the zone, press **Focus**.

Note: Once you delete a zone, pressing **Focus** saves and exits from the ***Delete Privacy Zones*** screen.

Deleting Specific Privacy Zones

To delete individual Privacy Zones, use the following procedure. To delete all Privacy Zones, see ***Deleting All Privacy Zones*** on page 4-19.

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Move the highlight bar to *Program Privacy Zones*. Press **Focus**.

   The *Program Privacy Zones* screen displays.
3. Move the highlight bar to ***Delete Specific Zones***. Press **Focus**.
4. Use the **Pan/Tilt** control to position the arrows in the Privacy Zone that you want to delete. Press **Zoom** to delete.

   If you do not want to delete the zone, press **Focus**.
5. Repeat steps 3 and 4 for each Privacy Zone you want to delete. When finished, move the highlight bar to ***Exit***, then press **Focus**.
6. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:
   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.

- To set the North position continue with ***Setting the North Position*** on page 4-9
- To define areas continue with ***Programming Area Boundaries*** on page 4-11.
- To define presets continue with ***Programming Presets*** on page 4-21.
- To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Deleting All Privacy Zones

To delete all Privacy Zones, use the following procedure. To delete individual Privacy Zones, see ***Deleting Specific Privacy Zones*** on page 4-18.

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Move the highlight bar to *Program Privacy Zones*. Press **Focus**.

   The *Program Privacy Zones* screen displays.
3. Move the highlight bar to ***Delete All Zones***. Press **Focus**.
4. The following prompt appears on-screen:

   You are about to delete
   All Privacy Zones

   Cancel
   Continue
5. To delete all Privacy Zones, move the highlight bar to ***Continue***, then press **Focus**.

   If you do not want to delete all Privacy Zones, press **Focus** when the highlight bar appears on ***Cancel***. The *Program Privacy Zones* screen displays.
6. Move the highlight bar to ***Exit***, then press **Focus** to return to *Alarms/Areas/Home/PZ* screen.
7. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:
   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the “home” position continue with ***Assigning the Dome’s Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.

- To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Hiding Privacy Zones

If you want to temporarily disable the appearance of Privacy Zones, you may "hide" them. This allows you to keep the Privacy Zones that have been programmed while disabling their appearance on-screen.

To hide all Privacy Zones:

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Move the highlight bar to *Program Privacy Zones*. Press **Focus**.

   The *Program Privacy Zones* screen displays.
3. Move the highlight bar to ***Hide All Zones***. Press **Zoom** to toggle the setting.
   - Select ***Yes*** to hide all Privacy Zones.
   - Select ***No*** to make all Privacy Zones active.

   The default setting is No.
4. Move the highlight bar to ***Exit***, then press **Focus** to return to *Alarms/Areas/Home/PZ* screen.
5. Do one of the following:
   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9.
   - To define areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To define presets continue with ***Programming Presets*** on page 4-21.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Programming Presets

If you need to view specific places routinely, you should program presets. A *preset* is a programmed video scene with automatic pan, tilt, zoom, focus and iris settings. Once programmed, entering the number and pressing a button on your controller automatically calls up the preset. In addition, presets may be assigned to alarm actions or as the "home" position for the dome. Up to 96 presets whose positions are saved in the dome's firmware may be programmed. Domes installed in ***SensorNet*** or ***RS-422*** networks support up to 96 presets. Domes installed in ***Manchester*** networks support up to 64 presets. If you attempt to program a preset numbered higher than 64 in a Manchester network, the controller beeps.

VM96 and AD matrices installed as RS-422 and SensorNet networks support "virtual" views. This means that the pan, tilt, zoom, focus, and iris settings are stored within the controller, not the dome. You cannot use the views that you define on those systems as the home position or an alarm action. You must use the presets programmed using this utility.

AD168 matrices with an AD168CCM control code module support Manchester, RS-422, and SensorNet networks and provide 64 virtual views. All other AD matrices support Manchester and 64 dome presets or, through the use of an AD2083-02A code unit, RS-422 networks and provide 16 virtual views.

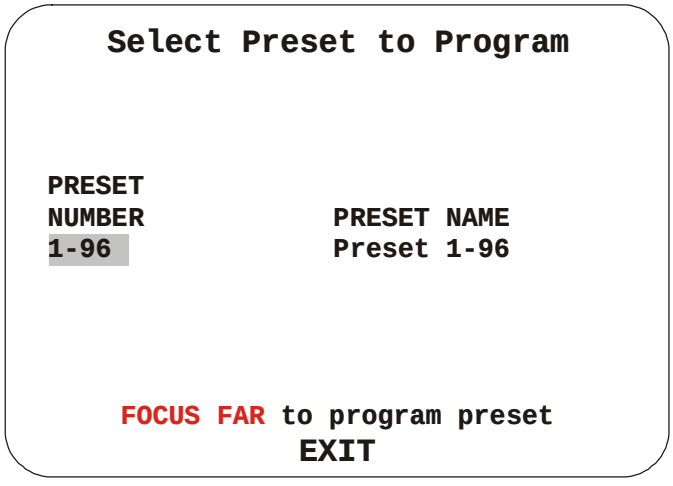
Setting Presets

N O T E !

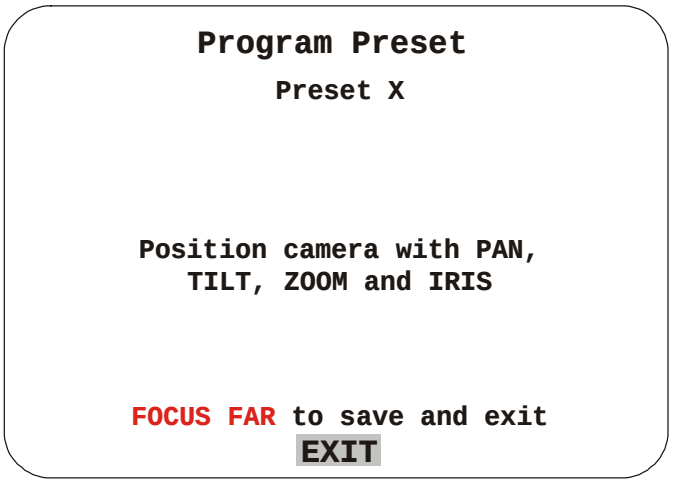
When presets are programmed, each preset is assigned a default name. Instructions for assigning new names appear in ***Assigning or Changing Name Information*** on page 5-12 (***Chapter 5 , Configuring Text Displayed On-Screen***).

1. Select *Alarms/Areas/Home/PZ* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Programming Presets***, then press **Focus**.

   The ***Select Preset to Program*** screen appears:



3. Press **Zoom** to change the number until the preset that you want to program appears, then press **Focus Far**. The ***Program Preset*** screen appears.



4. Use the **Pan/Tilt** control to move the camera until you see the scene you want to use as the preset. Adjust the zoom and iris settings as necessary. Press **Focus Far** to save the preset.

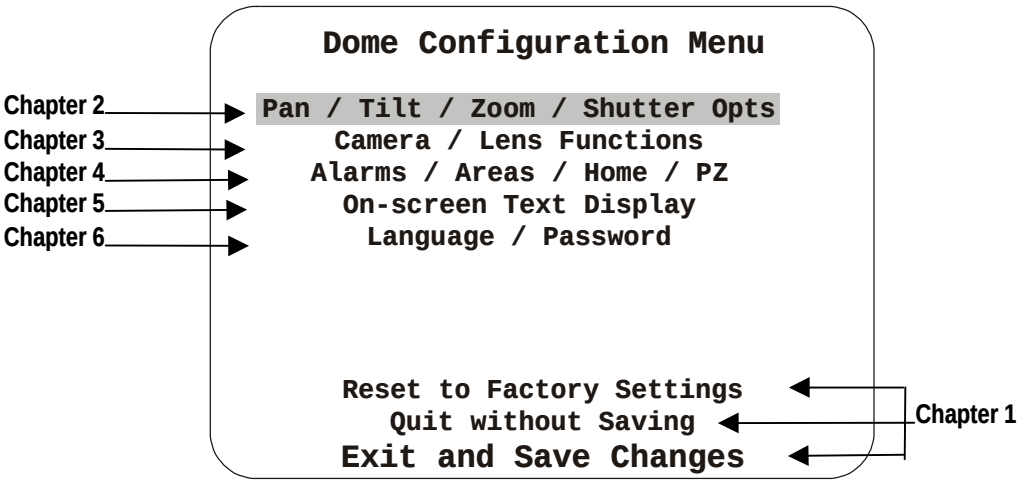
5. Repeat steps 3 and 4 for each preset you want to program. When finished, use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**.

6. When the *Alarms/Areas/Home/PZ* screen appears, do one of the following:

   - To configure the alarm actions continue with ***Configuring Alarm Actions*** on page 4-3.
   - To configure the input states continue with ***Configuring Normal Input States*** on page 4-6.
   - To set the "home" position continue with ***Assigning the Dome's Home Position*** on page 4-8.
   - To set the North position continue with ***Setting the North Position*** on page 4-9.
   - To set areas continue with ***Programming Area Boundaries*** on page 4-11.
   - To establish Privacy Zones continue with ***Establishing Privacy Zones*** on page 4-14.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** found on page 4-23.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

What To Do Next

When you select ***Exit*** from the *Alarms/Areas/Home/PZ* screen, the *Dome Configuration Menu* appears.



From this screen you can:

- Select an option to make additional changes.
- Restore all settings to the factory defaults.
- Exit the utility without saving changes.
- Save the changes and exit the utility.

Use the **Pan/Tilt** control to move the highlight bar to the selection you want to use, then press **Focus**. Refer to the related chapter for additional information.

NOTES:

CHAPTER 5

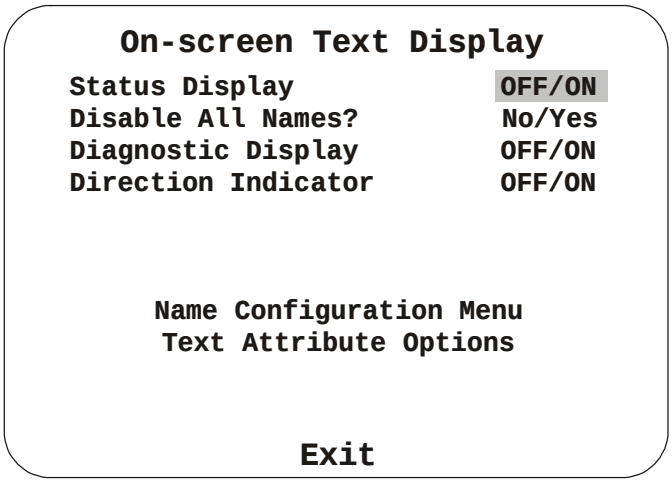
Configuring Text Displayed On-Screen

This chapter describes how to modify settings related to text displayed by the dome. It includes settings for displaying *dome status information*, *names*, *diagnostics*, and *pointing direction*. It also provides instructions for programming names and configuring *text display options*.

In This Chapter

Overview of On-Screen Text Display Settings

When ***On-Screen Text Display*** is selected from the *Dome Configuration Menu*, the following screen is displayed:



From this screen you can choose to display dome status information, enable or disable the display of all name information, display diagnostic information after a dome reset, and display direction information about where the dome is pointing. You may also start the ***Name Configuration Menu*** and the ***Text Attribute Options*** screens.

- To move the highlight bar, use the **Pan/Tilt** control.
- Pressing **Zoom** changes value of the selected setting.
- When you finish making changes, move the highlight bar to ***Exit***, then press **Focus** to return to the *Dome Configuration Menu*.
- To save changes and exit the configuration utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Tip: Remember the following when working with the *Dome Configuration Utility*:

If a specific **Focus** button is not mentioned, use either ***Focus Near*** or ***Focus Far***.
If a specific **Zoom** button is not mentioned, use either ***Zoom In*** or ***Zoom Out***.

Displaying or Hiding Status Information

You can choose to display the status of the zoom setting, auto focus, and auto iris. This information will appear in the upper left corner of the monitor. The information only appears when there is a change in the status of any item and remains on the screen for 5 seconds. If "D" appears next to the zoom factor, the digital zoom is active (zooms greater than 22X).

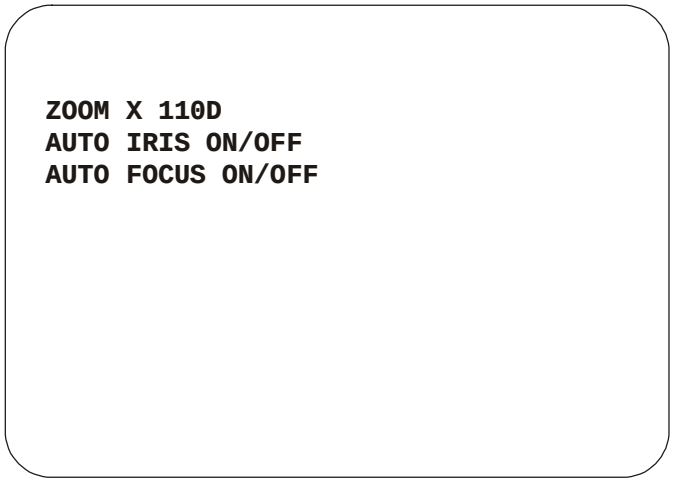


Figure 5-1: Example of Zoom, Auto Focus and Auto Iris Status Information

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Note Displaying status information is separate from displaying name information. If the ***Disable All Names?*** setting is set to ***Yes***, the status information still appears if ***Status Display*** is set to ***On***.

Changing the Display of Status Information

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.

   The highlight bar appears on ***Status Display***.

2. Press **Zoom** to change the setting.

   - Select ***On*** to display dome status information on the monitor.
   - Select ***Off*** to prevent dome status information from appearing on the monitor.

   The default setting is Off.

3. Do one of the following:

   - To change the types of name information displayed continue with ***Displaying or Hiding All Name Information*** on page 5-4.

- To display diagnostic information after a dome reset continue with ***Displaying Diagnostic Tests During Reset*** on page 5-5.
- To display information about the camera's pointing direction, continue with ***Displaying Direction Indicators*** on page 5-7.
- To assign names to the dome, areas, presets, patterns, or alarms, continue with ***Configuring Name Information*** on page 5-10.
- To change the on-screen text appearance continue with ***Changing the Settings for Text Displayed On-Screen*** on page 5-14.
- To change other settings use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Displaying or Hiding All Name Information

The dome provides the ability to display the dome name, the area where the dome is pointing, the name of the preset or pattern that is running, and alarm names. When the display of camera or area names is enabled, the information appears on the screen continuously. Preset, pattern, and alarm names appear only while they are active.

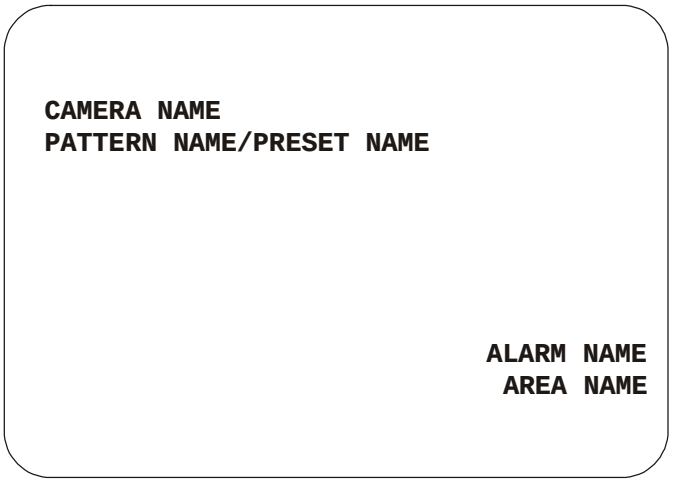


Figure 5-2: Display Locations for Name Information

You may choose to disable displaying all name information, or you may choose to display selected or all name information.

Changing the Display of *All* Name Information

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Disable All Names?***
3. Press **Zoom** to change the setting.
   - Select ***Yes*** to disable the appearance of all name information.
   - Select ***No*** to enable the appearance of all or some name information. Then continue with ***Configuring Name Information*** on page 5-10.

     The default setting is No.
4. Do one of the following:
   - To change the display of status information continue with ***Displaying or Hiding Status Information*** on page 5-3.
   - If you want diagnostic information to appear when the dome resets, refer to ***Displaying Diagnostic Tests During Reset*** on page 5-5.
   - If you want to display information about the camera's pointing direction, refer to ***Displaying Direction Indicators*** on page 5-7.
   - If you want to assign names to the dome, areas, presets, patterns, or alarms, refer to ***Configuring Name Information*** on page 5-10.
   - To change the on-screen text appearance continue with ***Changing the Settings for Text Displayed On-Screen*** on page 5-15.
   - If you want to make changes to other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
   - If you are finished making changes, press and hold **Iris Close**, then press **Focus** to save your changes and exit the utility.

Displaying Diagnostic Tests During Reset

You can choose to have dome diagnostic tests run whenever the dome resets. The diagnostic information displayed includes:

- Communications Loopback Test
- Camera Loopback Test
- Motor Circuit Test.

If you do not want diagnostic information to appear when the dome resets, a screen displaying the firmware version numbers for the Boot and Application code and the maximum optical zoom for the dome appears.

I M P O R T A N T

Enabling diagnostic tests may cause a momentary loss of communication on the network when the dome diagnostics are executed.

Changing the Display of Diagnostic Information

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Diagnostic Display***.
3. Press **Zoom** to change the setting.
   - If you want diagnostic tests to run when the dome resets, select ***On***.
   - If you do not want diagnostic tests to run when the dome resets, select ***Off***. This choice displays the firmware versions whenever the dome resets.

   The default setting is OFF.
4. Do one of the following:
   - To change the display of status information continue with ***Displaying or Hiding Status Information*** on page 5-3.
   - To change the types of name information displayed continue with ***Displaying or Hiding All Name Information*** on page 5-4.
   - To display information about the camera's pointing direction, continue with ***Displaying Direction Indicators*** on page 5-7.
   - To assign names to the dome, areas, presets, patterns, or alarms, continue with ***Configuring Name Information*** on page 5-10.
   - To change the text information appearance, refer to ***Changing the Settings for Text Displayed On-Screen*** on page 5-14.
   - To change other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Displaying Direction Indicators

Direction Indicators let you know the approximate pointing direction of the dome in relation to an established point called “North”. When enabled, the Direction Indicators appear along the top edge of the display. In addition, a tilt elevation indicator also appears along the left edge of the display. The value of the tilt elevation indicator is relative to the “virtual horizon” of 0° tilt. By default, the display of Direction Indicators is disabled.

Figure 5-3 illustrates the locations of the Direction Indicators on the display.

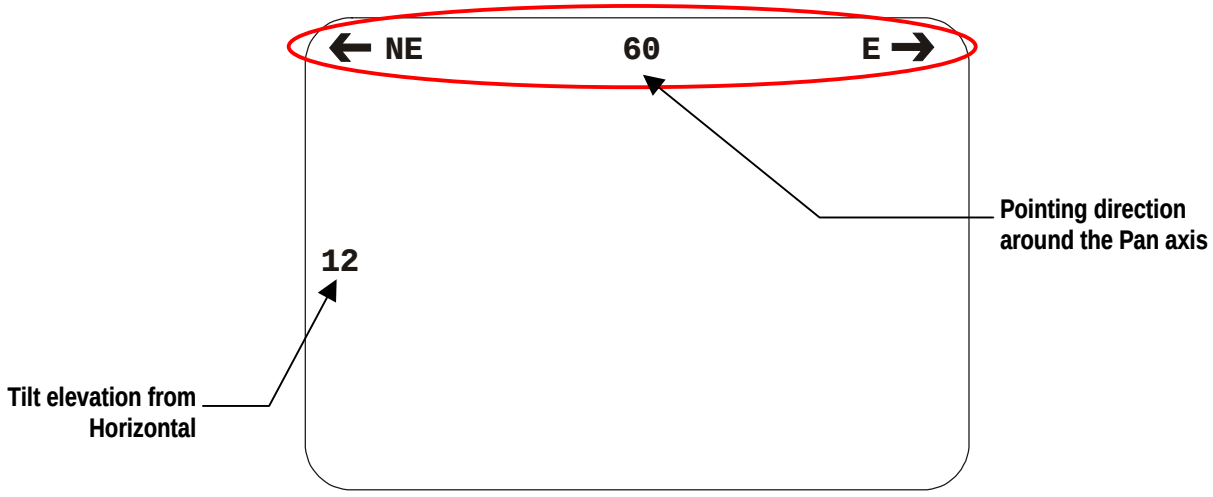


Figure 5-3: Screen locations for Direction Indicators

In this example, the current pointing position is 60° from North. The tilt elevation is 12° above the virtual horizon. Panning to the left points the dome towards the Northeast. Panning to the right points the dome towards the East. If you tilt below the virtual horizon, the negative values will be displayed along the left edge (for example, -25). The elevation values range from +25° to -90°.

If you pan to a position that corresponds to a well-known navigational heading, the label corresponding to the heading appears in the center position. Figure 5-4 illustrates the navigational headings and their corresponding degrees from North.

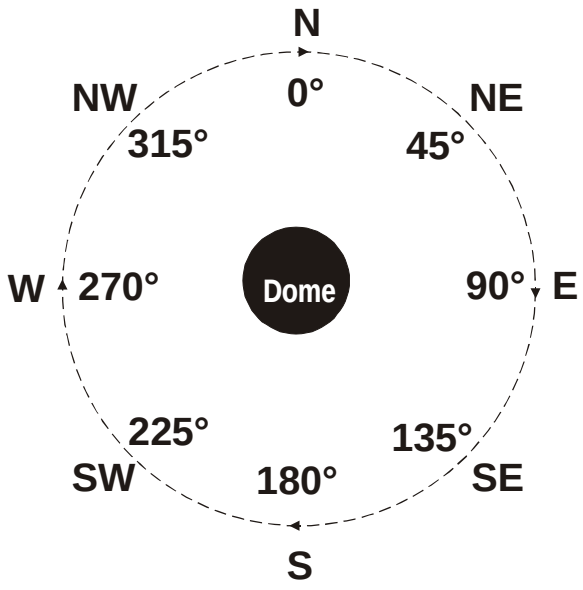


Figure 5-4: Navigational headings and corresponding degrees from North

In this illustration, the black circle in the center represents the dome, the dotted circle represents the pan axis, and the arrowheads represent panning the dome to the right.

Figure 5-5 represents pointing the dome precisely at 225° from North (Southwest) with a tilt of 25° below the virtual horizon. Panning to the left points the dome towards the South. Panning to the right points the dome towards the West.

Figure 5-5: Pointing the dome precisely Southwest with a tilt elevation of –25°.

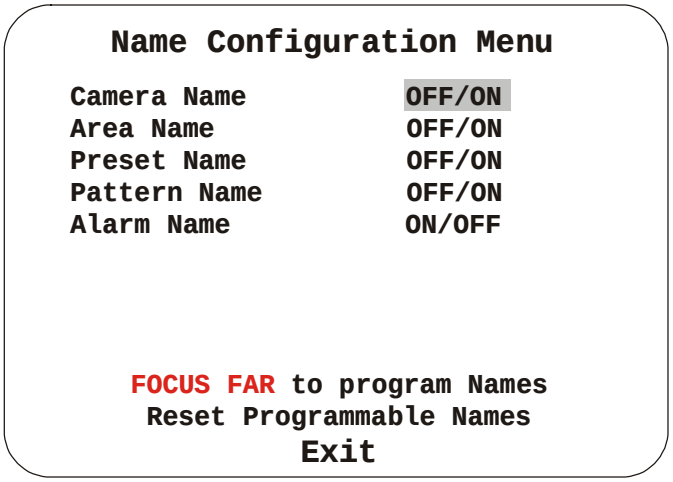
Changing the Display of Direction Indicators

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Move the highlight bar to ***Direction Indicator***. Press **Zoom** to toggle the setting.
   - Select ***On*** to display the direction information.
   - Select ***Off*** to prevent the direction information from displaying.

   The default setting is Off.
3. Do one of the following:
   - To change the display of status information continue with ***Displaying or Hiding Status Information*** on page 5-3.
   - To change the types of name information displayed continue with ***Displaying or Hiding All Name Information*** on page 5-4.
   - To assign names to the dome, areas, presets, patterns, or alarms, continue with ***Assigning or Changing Name Information*** on page 5-12.
   - To change the text information appearance, refer to ***Changing the Settings for Text Displayed On-Screen*** on page 5-14.
   - To change other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Configuring Name Information

Use the ***Name Configuration Menu*** to select which name information appears on-screen. To display this screen, select *Name Configuration Menu* from the *On-Screen Text Display* screen. The following screen appears:



You can choose to enable or disable the display of camera, area, preset, pattern, and alarm names from this screen. You can reset all programmable names to their default settings. You may also initiate name programming from this screen. See ***Assigning or Changing Name Information*** on page 5-12.

Changing the Display of *Selected* Name Information

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to *Name Configuration Menu*. Then press **Focus**.

   The *Name Configuration Menu* appears.
3. Use the **Pan/Tilt** control to move the highlight bar to the item whose display setting you want to change.
4. Press **Zoom** to change the setting.
   - Choose ***On*** to display name information on the monitor.
   - Choose ***Off*** to prevent name information from appearing on the monitor.

   The default settings are Off for Camera, Areas, Presets, and Patterns, and On for Alarms.
5. Repeat steps 3 and 4 for each item you want to change.

6. Do one of the following:

   - To reset all programmable names to their default values, use the **Pan/Tilt** control to move the highlight bar to ***Reset Programmable Names***, then press **Focus**. Continue with step 7.
   - If you do not want to reset the programmable names, continue with step 8.

7. The following prompt appears on the screen:

   RESET PROGRAMMABLE NAMES NO

   Press **Zoom** to toggle the setting.

   - To reset all names to the default value, select ***Yes***, then press **Focus**. The *Name Configuration Menu* displays. **"*Programmable Names Have Been Reset*"** appears at the bottom of the screen.
   - To cancel resetting of names, select ***No***, then press **Focus**. The *Name Configuration Menu* displays.

   The default selection is No.

8. Do one of the following:

   - To change programmable name information continue with ***Assigning or Changing Name Information*** on page 5-12.
   - To return to the *On-Screen Text Display* settings screen use the **Pan/Tilt** control to move the highlight bar to ***Exit***. Then press **Focus**. Continue with step 9.

9. Do one of the following:

   - To change the status information display continue with ***Displaying or Hiding Status Information*** on page 5-3.
   - To change the types of name information displayed continue with ***Displaying or Hiding All Name Information*** on page 5-4.
   - To display information about the camera's pointing direction, continue with ***Displaying Direction Indicators*** on page 5-7.
   - To change the text information appearance continue with ***Changing the*** on page 5-14.
   - To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Assigning or Changing Name Information

With the *Name Configuration Menu* displayed, you can highlight a menu item and select **Focus** to begin name programming.

Names for each selection can be up to 19 characters long. The following characters are available:

- A-Z (upper case)
- a-z (lower case)
- 0-9
- Blank Space
- Minus Sign (-)
- Forward Slash (/)

Setting or Changing Names

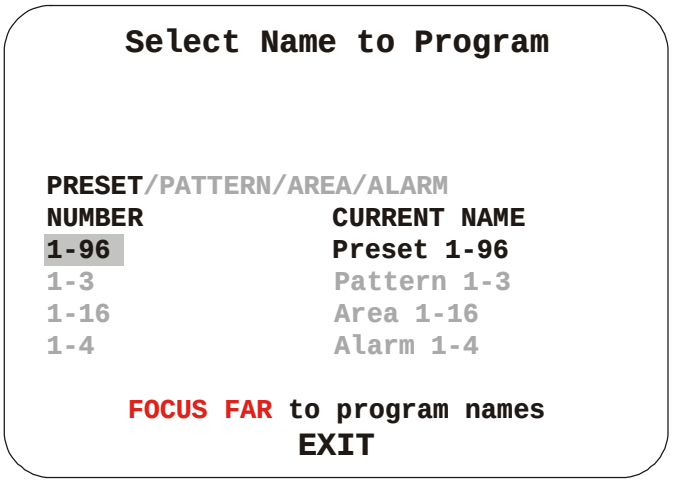
1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to *Name Configuration Menu*. Then press **Focus**.

   The *Name Configuration Menu* appears.

3. Use the **Pan/Tilt** control to move the highlight bar to the name setting you want to change, then press **Focus Far**. The choices are: ***Camera Name***, ***Area Name***, ***Preset Name***, ***Pattern Name***, and ***Alarm Name***.

   - If you choose *Camera Name*, continue with step 6.
   - If you choose *Area Name*, *Preset Name*, *Pattern Name*, or *Alarm Name*, continue with step 4.

4. The ***Select Name to Program*** screen appears.



   Note: Gray text refers to other options that may appear on-screen.

5. Press **Zoom** to change the number. When the item whose name you want to change appears press **Focus Far**.

Note: If Presets, Patterns, or Areas have been programmed, the dome automatically points to the starting position of the associated selection each time the number is advanced.

6. The ***Name Programming*** screen appears.

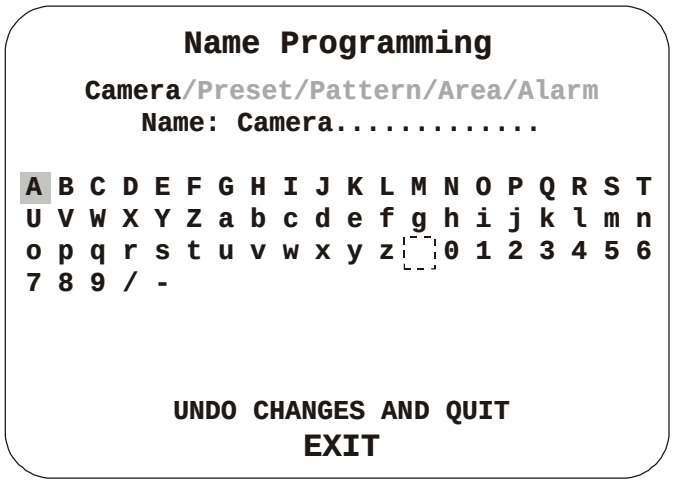


Figure 5-6: Example Name Programming Screen

Note: Gray text refers to other options that may appear on-screen.

7. Use the **Pan/Tilt** control to move the blinking highlight around the available characters. When the correct character is highlighted, press **Focus Far**.

   If you make a mistake, **Zoom In** moves the cursor one space right, and **Zoom Out** moves the cursor one space left in the name.

8. Repeat step 7 until the name is complete.

9. Do one of the following:

   - To keep the name changes, move the highlight bar to ***Exit***, then press **Focus**.
   - To discard the name changes, move the highlight bar to ***Undo Changes and Quit***, then press **Focus**.

10. Do one of the following:

    - If you were changing the camera name, continue with step 12.
    - If you were changing the name of an area, preset, pattern or alarm, the *Select Name to Program* screen appears. Continue with step 11.

11. Do one of the following:

    - To make additional changes to the same type of name selected in step 2, repeat steps 4 through 10.
    - To return to the *Name Configuration Menu*, use the **Pan/Tilt** control to move the highlight bar to ***Exit***. Then press **Focus**, and continue with step 12.

12. Do one of the following:

    - To make additional name changes, repeat steps 3 through 11.
    - To return to *On-Screen Text Display*, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. Continue with step 13.

13. Do one of the following:

    - To change the status information display continue with ***Displaying or Hiding Status Information*** on page 5-3.
    - To change the types of name information displayed, refer to ***Displaying or Hiding All Name Information*** on page 5-4.
    - To display information about the camera's pointing direction, continue with ***Displaying Direction Indicators*** on page 5-7.
    - To change the text information appearance continue with ***Changing the Settings for Text Displayed On-Screen*** on page 5-14.
    - To change other settings use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
    - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Changing the Settings for Text Displayed On-Screen

You may customize the way text is displayed on-screen. You have the choice of displaying text as translucent (slightly clear) or solid, with or without outlines. To change these settings, select ***Text Attribute Options*** from the *On-Screen Text Display* screen. The following screen appears:

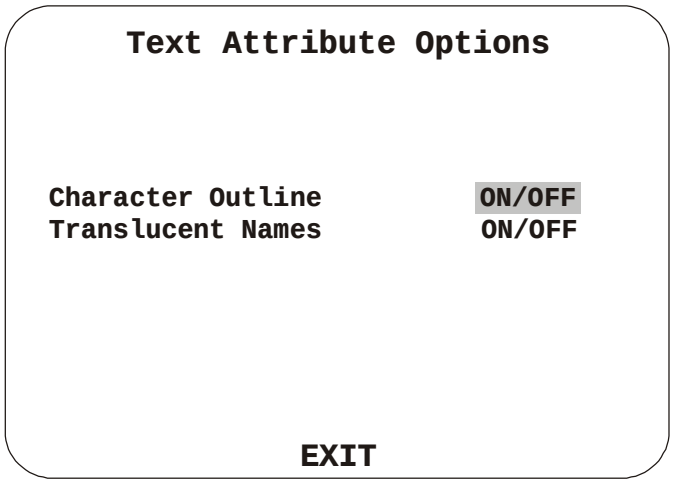


Figure 5-7 illustrates the types of text attributes available.

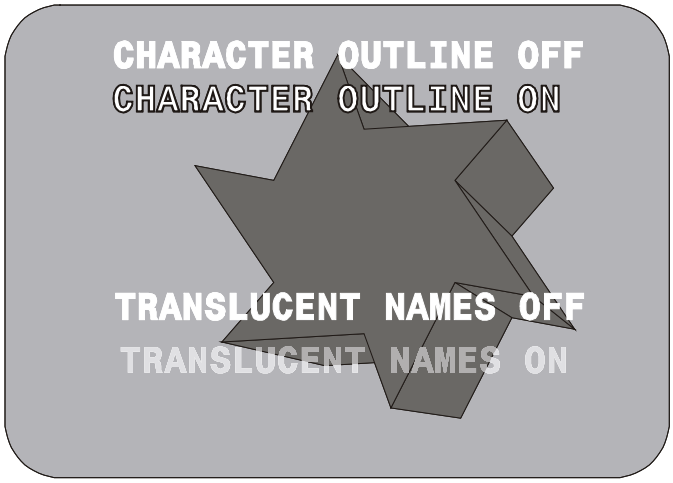


Figure 5-7: Examples of text attributes.

If the video background is light, enable character outlines. If on-screen text obscures the video being displayed, enable translucent names. Character outlines and translucent names may be used together to best suit your video environment.

I M P O R T A N T

If you have Privacy Zones enabled, the appearance of the text automatically changes to opaque. Changing the text appearance to translucent will have no effect until the Privacy Zones are hidden or deleted. See ***Establishing Privacy Zones*** on page 4-14 (***Chapter 4 , Configuring Alarms, Areas, Home, and Privacy Settings***).

Changing On-Screen Text Appearance

1. Select *On-Screen Text Display* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Text Attribute Options***, then press **Focus**.

   The *Text Attribute Options* screen appears. The highlight bar appears on ***Character Outline***.
3. Press **Zoom** to change the setting.
   - Select ***On*** to display text with an outline around each character.
   - Select ***Off*** to display without an outline around each character.

   The default setting is On.
4. Do one of the following:
   - If you want to change the appearance of the text overlay characters for dome names and status information, use the **Pan/Tilt** control to move the highlight bar to ***Translucent Names***. Continue with step 5.
   - If you are finished making changes, continue with step 6.
5. Press **Zoom** to change the *Translucent Names* setting.
   - Select ***On*** to display text associated with dome names and status information translucent (slightly clear).
   - Select ***Off*** to display text associated with dome names and status information opaque (solid).

   The default setting is On.
6. Use the **Pan/Tilt** control to move the highlight bar to ***Exit***, then press **Focus**. The *On-Screen Text Display* screen appears.
7. Do one of the following:
   - If you want to change the status information display, refer to ***Displaying or Hiding Status Information*** on page 5-3.

- If you want to change the types of name information displayed, refer to ***Displaying or Hiding All Name Information*** on page 5-4.
- If you want to display information about the camera's pointing direction, refer to ***Displaying Direction Indicators*** on page 5-7.
- If you want to assign names to the dome, areas, presets, patterns, or alarms, refer to ***Changing the Display of Selected Name Information*** on page 5-10.
- If you want to make changes to other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 5-18.
- If you are finished making changes, press and hold **Iris Close**, then press **Focus** to save changes and exit the utility.

What To Do Next

When you select *Exit* from the *On-Screen Text Display* screen, the *Dome Configuration Menu* appears.

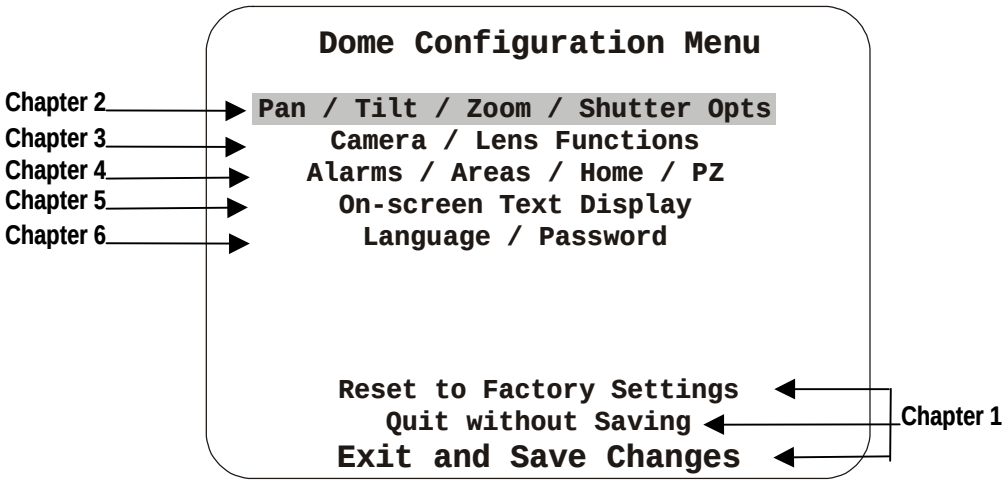


Figure 5-8: Dome Configuration Menu

From this screen you can:

- Select an option to make additional changes.
- Restore all settings to the factory defaults.
- Exit the utility without saving changes.
- Save the changes made and exit the utility.

Use the **Pan/Tilt** control to move the highlight bar to selection you want to use, then press **Focus** to continue. Refer to the related chapter for additional information.

CHAPTER 6

Configuring Language and Password Settings

This chapter explains how to change the language for dome messages and text, and how to set and enable the dome password.

In This Chapter

Overview of Language and Password Settings

When ***Language / Password*** is selected from the *Dome Configuration Menu*, the following screen appears:

From this screen, you can choose the language for the menus, status information, and prompts from the dome. You can also set and enable the use of the dome password.

- To move the highlight bar, use the **Pan/Tilt** control.
- Pressing **Zoom** changes value of the selected setting.
- When you finish making changes, move the highlight bar to ***Exit***, then press **Focus** to return to the *Dome Configuration Menu*.

Tip: Remember the following when working with the *Dome Configuration Utility*:

If a specific **Focus** button is not mentioned, use either ***Focus Near*** or ***Focus Far***.
If a specific **Zoom** button is not mentioned, use either ***Zoom In*** or ***Zoom Out***.

Selecting a Language for Dome Messages and Prompts

The dome supports menus, status information and prompts in English, Spanish, French, German, Italian, and Portuguese. When the dome is initially installed, the language setting is English.

I M P O R T A N T

If Portuguese is the selected language, the characters “ã” and “õ” will not be displayed on the screen. This is due to a limitation of the text overlay chip.

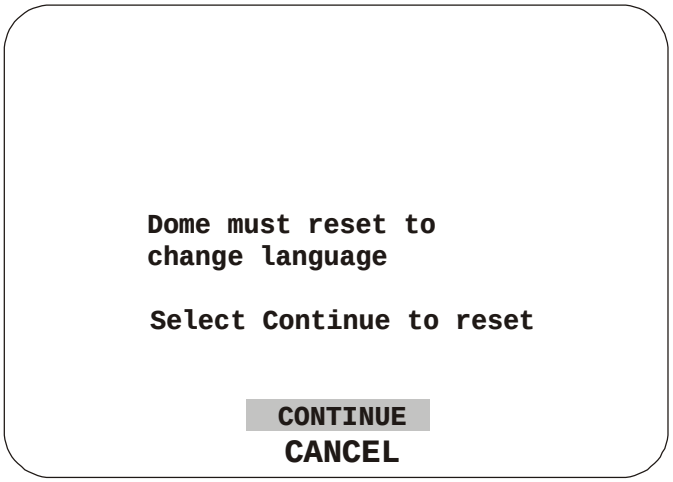
Changing the Language Setting

1. Select *Language/Password* from the *Dome Configuration Menu*.
2. The highlight bar appears on ***Language Selection***. Press **Focus**.

   The *Language Selection* screen appears:

Use the **Pan/Tilt** control to move the highlight bar to the preferred language setting. ***The default setting is English.***

3. Press **Focus** to select the highlighted language. The following screen displays:



The highlight bar appears on *Cancel*.

Note: Changing the language does not alter any previously programmed names. Only default names, such as ***Preset 1***, change to the new language setting.

4. Do one of the following:

   - To continue with changing the language, use the **Pan/Tilt** control to move the highlight bar to ***Continue***, then press **Focus**. The dome automatically resets. To verify the language change, continue with step 5. Otherwise continue with step 6.
   - To cancel the language change, press **Focus** when the highlight bar appears on ***Cancel***. The *Language Selection* screen displays. You may choose a different language, or use the **Pan/Tilt** control to move the highlight bar to ***Exit*** to return to the *Language / Password* screen. Continue with step 6.

5. To display the *Dome Configuration Menu* in the selected language, press and hold **Iris Open**, press and hold **Focus**, then press **Zoom Out**. Continue with step 6.

6. Do one of the following:

   - To set the dome password or enable password protection, refer ***Setting and Enabling the Dome Password*** on page 6-5.
   - To make changes to other settings, continue with ***What To Do Next*** on page 6-7.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Setting and Enabling the Dome Password

To prevent unauthorized use of the configuration utility, you may choose to enable password protection. There are two parts to using passwords with your dome: setting a password and enabling password use. The dome password can be from 1 to 8 characters long. The characters available depend on the current language setting.

Setting or Changing the Dome Password

1. Select *Language/Password* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Set Password***. Then press **Focus**.

   The *Set Password* screen appears.

3. Use the **Pan/Tilt** control to move the blinking highlight around the available characters. When the correct character is highlighted, press **Focus**.

   If you make a mistake, press **Zoom In** to move the cursor one space right or **Zoom Out** to move the cursor one space left.

4. Repeat step 3 until the password is complete. When finished, move the highlight to ***Continue***, then press **Focus**.
5. You must successfully enter the password twice. Use the procedure in step 3 to enter the password again. When finished, move the highlight to ***Continue***, then press **Focus**.

   Note: If the passwords do not match, you must start over. Return to step 3 and repeat the procedure.

6. The *Language/Password* screen appears. Do one of the following:

   - To enable the password continue with ***Enabling or Disabling Password Protection*** on page 6-6.
   - To change the language setting continue with ***Selecting a Language for Dome Messages and Prompts*** on page 6-3.

- To change other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 6-7.
- To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Enabling or Disabling Password Protection

Password protection must be enabled before passwords can be used. To enable or disable the dome password:

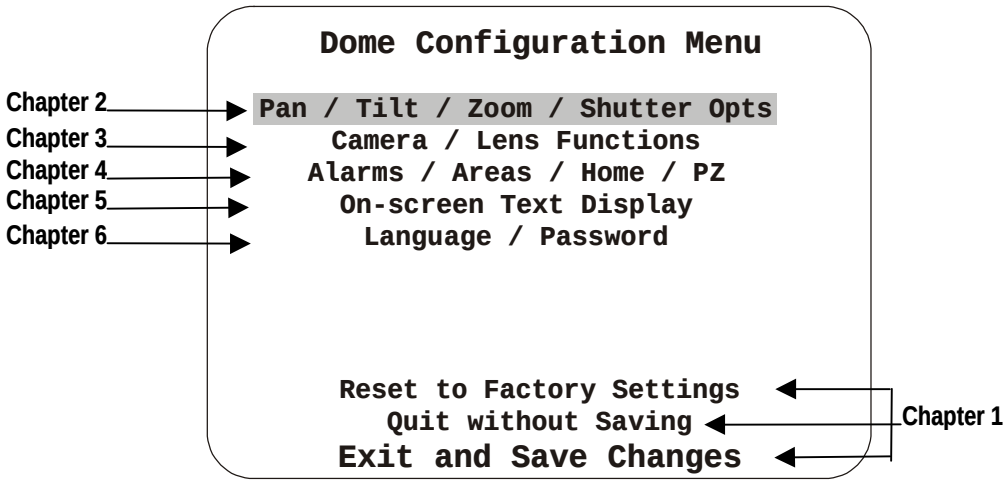
1. Select *Language/Password* from the *Dome Configuration Menu*.
2. Use the **Pan/Tilt** control to move the highlight bar to ***Password Protection***.
3. Press **Zoom** to change the setting.
   - Select ***On*** to enable password protection.
   - Select ***Off*** to disable password protection.

   The default setting is Off.
4. Do one of the following:
   - To change the language setting continue with ***Selecting a Language*** on page 6-3.
   - To set or change the password continue with ***Setting or Changing the Dome Password*** on page 6-5.
   - To change other settings, use the **Pan/Tilt** control to move the highlight bar to *Exit*, then press **Focus**. The *Dome Configuration Menu* appears. Continue with ***What To Do Next*** on page 6-7.
   - To save changes and exit the utility press and hold **Iris Close**, then press **Focus**. The dome returns to normal operation.

Tip: Instructions for entering the dome password are found in ***Entering the Dome's Password*** on page 1-4 (***Chapter 1*** , ***Using the Dome Configuration Utility***).

What To Do Next

When you select ***Exit*** from the *Language / Password* screen, the *Dome Configuration Menu* appears.



From this screen you can:

- Select an option to make additional changes.
- Restore all settings to the factory defaults.
- Exit the utility without saving changes.
- Save the changes and exit the utility.

Use the **Pan/Tilt** control to move the highlight bar to selection you want to use, then press **Focus** to continue. Refer to the related chapter for additional information.

NOTES:

A P P E N D I X A

Records

Use the pages in this appendix to record the configuration settings for your SpeedDome Ultra V Camera Dome. Make copies of these pages for each dome. Whenever you change settings for a dome, update the information recorded on these pages.

In This Appendix

Pan / Tilt / Zoom / Shutter Settings

Menu Item	Default Setting (Choices)	Current Setting
Proportional Flip	**Off** (On / Off)	
1st Zoom Stop X	**33** (22 /33)	
Max Total Zoom X	**88** (44 / 55 / 66 / 77 / 88 / 99 / 110 / 121 / 132 / 143/ 154/ 165/ 176)	
Open Shutter	**On** (On / Off)	
Shutter Limit	**1/4** (1/4 – 1/60)	

Camera and Lens Functions

Menu Item	Default Setting (Choices)	Current Setting
Line Lock	**On** (On / Off)	
AGC Mode	**On** (On / Off)	
AGC Gain*	(0-1128)	
Auto White Bal	**On** (On / Off)	
Red White Bal**	(128 -1023)	
Blue White Bal**	(128-1023)	

***** **AGC Mode must be set to Off to use this setting**

****** **Auto White Bal must be set to Off to use these settings**

Alarm Actions

Menu Item	Default Setting (Choices)	Current Setting
Alarm No. 1	**No Action** (Preset 1-96 / Pattern 1-3 / No Action)	
Alarm No. 2	**No Action** (Preset 1-96 / Pattern 1-3 / No Action)	
Alarm No. 3	**No Action** (Preset 1-96 / Pattern 1-3 / No Action)	
Alarm No. 4	**No Action** (Preset 1-96 / Pattern 1-3 / No Action)	
Send Inputs to Host	**Yes** (Yes / No)	

Alarm Input Normal States

Menu Item	Default Setting (Choices)	Current Setting
Input No. 1	**Open** (Open / Closed)	
Input No. 2	**Open** (Open / Closed)	
Input No. 3	**Open** (Open / Closed)	
Input No. 4	**Open** (Open / Closed)	

Home Position

Menu Item	Default Setting (Choices)	Current Setting
Home Position	**No Action** (Preset 1-96 or 64 / Pattern 1-3 / No Action)	
Return Time (Mins)*	**10** (1 - 60 Minutes**)**	

***** **Home Position must be set to Preset or Pattern for this setting to apply.**

North Position

Describe North position:

Privacy Zones

Up to 8 Privacy Zones can be programmed. Use this form to identify the number of Privacy Zones programmed and areas being obscured.

Number	Description
Zone 1	
Zone 2	
Zone 3	
Zone 4	
Zone 5	
Zone 6	
Zone 7	
Zone 8	

Area Boundaries

Up to 16 areas can be programmed. Use this form to identify the start and end points of each area. This will assist you in restoring the boundaries if the areas should be erased.

Area Number	Start Point	End Point
Area 1		
Area 2		
Area 3		
Area 4		
Area 5		
Area 6		
Area 7		
Area 8		
Area 9		
Area 10		
Area 11		
Area 12		
Area 13		
Area 14		
Area 15		
Area 16		

On-Screen Text Display

Menu Item	Default Setting (Choices)	Current Setting
Status Display	**Off** (On / Off)	
Disable All Names	**No** (Yes / No)	
Diagnostic Display	**Off** (On / Off)	
Direction Indicator	**Off** (On / Off)	

Text Attribute Options

Menu Item	Default Setting (Choices)	Current Setting
Character Outline	**On** (On / Off)	
Translucent Names	**On** (On / Off)	

Language / Password

Menu Item	Default Setting (Choices)	Current Setting
Language Selection	**English (**English / Spanish / French / German / Italian / Portuguese)	
Password Protection	**Off** (On / Off)	

Note: The SpeedDome Ultra V password should be provided to authorized operators only.

Name Configuration

Menu Item	Default Setting (Choices)	Current Setting
Camera Name	**Off** (On / Off)	
Area Name	**Off** (On / Off)	
Area No. 1	Area 1	
Area No. 2	Area 2	
Area No. 3	Area 3	
Area No. 4	Area 4	
Area No. 5	Area 5	
Area No. 6	Area 6	
Area No. 7	Area 7	
Area No. 8	Area 8	
Area No. 9	Area 9	
Area No. 10	Area 10	
Area No. 11	Area 11	
Area No. 12	Area 12	
Area No. 13	Area 13	
Area No. 14	Area 14	
Area No. 15	Area 15	
Area No. 16	Area 16	
Preset Name	**Off** (On / Off)	
REFER TO PRESET WORKSHEET FOR NAME SETTINGS		
Pattern Name	**Off** (On / Off)	
Pattern No. 1	Pattern 1	
Pattern No. 2	Pattern 2	
Pattern No. 3	Pattern 3	
Alarm Name	**On** (On / Off)	
Alarm No. 1	Alarm 1	
Alarm No. 2	Alarm 2	
Alarm No. 3	Alarm 3	
Alarm No. 4	Alarm 4	

Presets

Up to 96 presets (64 with Manchester) can be programmed for each dome. Use this form to describe the scene being viewed for each preset. This will assist you in restoring the presets if they should be erased.

Preset Number	Description	Assigned Name
Preset 1		
Preset 2		
Preset 3		
Preset 4		
Preset 5		
Preset 6		
Preset 7		
Preset 8		
Preset 9		
Preset 10		
Preset 11		
Preset 12		
Preset 13		
Preset 14		
Preset 15		
Preset 16		
Preset 17		
Preset 18		
Preset 19		
Preset 20		
Preset 21		
Preset 22		
Preset 23		
Preset 24		
Preset 25		
Preset 26		
Preset 27		
Preset 28		
Preset 29		
Preset 30		
Preset 31		
Preset 32		
Preset 33		
Preset 34		
Preset 35		
Preset 36		
Preset 37		
Preset 38		
Preset 39		
Preset 40		
Preset 41		
Preset 42		
Preset 43		
Preset 44		
Preset 45		
Preset 46		
Preset 47		
Preset 48		

Preset Number	Description	Assigned Name
Preset 49		
Preset 50		
Preset 51		
Preset 52		
Preset 53		
Preset 54		
Preset 55		
Preset 56		
Preset 57		
Preset 58		
Preset 59		
Preset 60		
Preset 61		
Preset 62		
Preset 63		
Preset 64		
Preset 65		
Preset 66		
Preset 67		
Preset 68		
Preset 69		
Preset 70		
Preset 71		
Preset 72		
Preset 73		
Preset 74		
Preset 75		
Preset 76		
Preset 77		
Preset 78		
Preset 79		
Preset 80		
Preset 81		
Preset 82		
Preset 83		
Preset 84		
Preset 85		
Preset 86		
Preset 87		
Preset 88		
Preset 89		
Preset 90		
Preset 91		
Preset 92		
Preset 93		
Preset 94		
Preset 95		
Preset 96		

APPENDIX B

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In This Appendix

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Glossary

Alarm Actions

The assigned responses for the dome when inputs change from normal to abnormal states. The dome may run a Preset, Pattern, or have no assigned action for each of the four dome inputs. The dome may also send alarm states to the host controller for processing. See also *Input* and *Normal Input State* .

Areas

Programmed start and end points of the dome's field of view around its pan axis. Each area is a part of a circular viewing area that extends around the dome. The areas can be different sizes. Up to 16 areas can be programmed for the dome.

Automatic “Flip” feature

Allows the dome to automatically turn 180-degrees when the camera tilts to its lower limit and stays in that position for a brief delay. When the dome flips (rotates), the camera starts moving upward as long as the tilt control is kept in the down position. Once the control is released, the tilt control returns to its normal operational mode. The flip feature is useful when you need to track someone who walks directly beneath the dome and continues on the other side. This is also referred to as “proportional flip.”

Automatic Gain Control (AGC)

Allows for the amplification of the video signal in scenes with minimal ambient light. Many low-light scenes result in picture noise. As gain is increased, the picture noise is also amplified. When AGC is enabled, the value of the gain setting is based on feedback from the camera. When AGC is disabled, the camera uses the value set for the manual gain setting. The trade-off between picture level and noise may be adjusted when AGC is disabled. See also *Open Shutter*.

Configuration Utility

The text overlay menu system used for setting dome features. The utility is accessed using a keystroke combination. The utility provides settings for camera functions, zoom, alarms, text display, and password protection.

Direction Indicators

Provides for the display of the camera dome's pointing direction based on the North setting. This information appears on the top line of the monitor when the setting is enabled. In addition, the tilt setting appears on the left side of the monitor. By default, North is set to 0° Pan/Tilt. This setting may be changed using the *Set North Position* setting. See also *North Position*.

Dome Status Information

Relates to zoom, focus, and iris settings. You may choose to have this information displayed on the monitor when any of these settings change. If display of status information is enabled, it appears in the upper left corner of the monitor.

Home Position

The default position to which the returns after an assigned period of inactivity passes. The default position may be a *Preset*, *Pattern*, or No Action.

Input

A connection point on the dome that enables the system to monitor *Input Devices* . There are four inputs available for the dome.

Input Devices

External devices that provide information about the condition of system components that connect to the inputs on the dome. Typical input devices include door contacts, motion detectors and smoke detectors.

Line Lock

Allows you to phase lock the video with the AC power line. When line lock is enabled, it prevents vertical video rolling when switching multiple cameras to a single monitor. If text appears slightly tinted on color monitors, disabling the line lock may prevent this problem.

Name Information

Relates to the display the dome name, the area where the dome is pointing, the name of the preset or pattern that is running, and alarm names. The display of each type of name setting can be enabled or disabled. When the display of camera or area names is enabled, the information appears on the screen continuously. Preset, pattern, and alarm names appear only while they are active.

Normal Input State

Describes the expected state of a device connected to one of four dome inputs. The normal state may be *open* or *closed*. When a device is not in its normal input state, an alarm is issued. Transmitting the dome input states to the host controller is not supported with Manchester.

North Position

User-definable setting that may correspond to magnetic north or some well-known landmark. Used to approximate the camera dome's pointing direction when *Direction Indicators* are enabled.

Open Shutter

Setting used to improve the quality of video obtained in extreme low-light situations. When the Open Shutter setting is enabled, low-light information is collected over multiple fields based on the *Shutter Limit* setting. As a result, video may appear blurred or choppy in extreme low-light situations. This setting does not effect camera operation in normal lighting situations. See also *Automatic Gain Control (AGC)*.

Password Protection

Prevents unauthorized users from starting the *Configuration Utility*. The password may be from 1 to 8 characters long.

Pattern

A series of pan, tilt, zoom and focus movements from a single programmable dome. Up to 3 patterns may be programmed for the dome.

Preset

Programmed video scene, based on a specific pan, tilt, zoom, and focus settings. Up to 96 presets may be programmed for the dome. For domes running in a Manchester network, only 64 presets may be programmed. See also *"Virtual" Views*

Privacy Zones

Masked areas of the camera dome's viewing area. These masks prevent operators of the surveillance system from viewing these designated zones. Each Privacy Zone has four sides, and the zones may overlap to form irregular shapes. The Privacy Zones move in relation to the dome pan/tilt position. In addition, the apparent size of the Privacy Zone adjusts automatically as the lens zooms in or out. Up to eight Privacy Zones may be established for a camera dome.

Shutter Limit

Setting used to define the maximum exposure time for the *Open Shutter* setting. The values for the setting range from 1/2 to 1/60. The default setting is 1/4.

"Virtual" Views

Similar to *Preset*. However, virtual views store the pan, tilt, zoom, focus, and iris settings within the controller, not the dome. Virtual Views **cannot** be used as the *Home Position* or *Alarm Actions*.

White balance

Adjustments in the color hue (red and blue) gains for a camera so that true white appears white in the image. It is normally compensated for by the automatic gain control. In some lighting conditions, you may need to manually adjust the red and blue settings for optimal viewing. When Automatic White Balance is enabled, the camera measures the image and automatically adjusts the red and blue settings to balance white. When Automatic White Balance is disabled, the camera uses the values set for the red and blue settings to balance white.

Zoom

To adjust the magnification of the camera lens to make an object appear closer (larger) or farther away (smaller). See also *Zoom stop factors* .

Zoom stop factors

Defines how the zoom function is partitioned. The first zoom stop setting may be 22X or 33X. The default first zoom stop setting is 33X. The maximum zoom stop setting may be 44X, 55X, 66X, 77X, 88X, 99X, 110X, 121X, 132X, 143X, 154X, 165X or 176X. The default maximum zoom stop setting is 88X.

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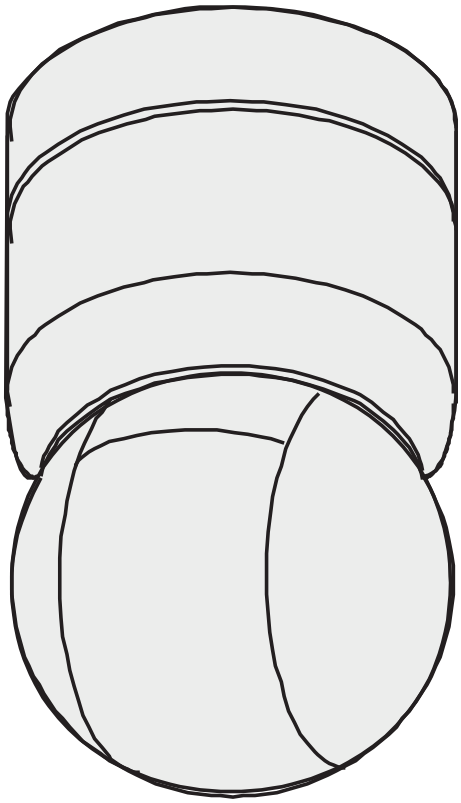

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