# CyberDome II User Manual



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Regulatory



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# Preface

This is the GE *CyberDome II User Manual*. This document includes an overview of the product and detailed instructions explaining:

- how to access the menus; and
- how to customize the settings.

There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should have the following minimum qualifications:

- a basic knowledge of CCTV systems and components; and
- a basic knowledge of electrical wiring and low-voltage electrical connections.

Read these instructions and all ancillary documentation entirely <u>before</u> installing or operating this product. The most current versions of this and related documentation may be found on our website. Refer to *Online publication library* on page 45 for instructions on accessing our online publication library.

Note: A qualified service person, complying with all applicable codes, should perform all required hardware installation.

# Conventions used in this document

The following conventions are used in this document:

Bold	Menu items and buttons.	
Italic	alic Emphasis of an instruction or point; special terms.	
File names, path names, windows, panes, tabs, fields, variables, and other GUI elements.		
	Titles of books and various documents.	
Blue italic	(Electronic version.) Hyperlinks to cross-references, related topics, and URL addresses.	
Monospace	Text that displays on the computer screen.	
	Programming or coding sequences.	

# Safety terms and symbols

These terms may appear in this manual:

**CAUTION:** Cautions identify conditions or practices that may result in damage to the equipment or other property.

WARNING: Warnings identify conditions or practices that could result in equipment damage or serious personal injury.

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# Chapter 1 Programming

This chapter provides an overview of your CyberDome II menu system, including steps you may want to perform before you begin using your CyberDome II.

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# Introduction

This manual contains programming instructions for the CyberDome II series cameras (*Figure 1*). The most common CyberDome II programming options and screen sequences are illustrated. Notations indicate where options may differ among camera models.



The CyberDome II series cameras operate using the KTD-405 controller keypad. See the *KTD-405/KTD-405A Controller Keypad User Manual* for a complete description.

# Accessing programming menus

To access the programming menus using a KTD-405 keypad, do the following:

- 1. Switch the keypad to the camera site you want to program (Figure 2).
- 2. Press and hold the set key until the *Enter programming code* display appears.
- 3. At the code entry display, enter the programming code 9, 5, and 1. Then press the seq button.
- 4. At the first menu display, press **3**.
- 5. At the Enter camera site number screen, enter the site number of the camera you wish to program.

auto focus 1st talk last stop close open mon view zone dsr/vci aux 1 aux 2 aux 3 aux 4 ⊞ ⊞ Shoded keus ar only available on KTD-405A 1 , 2 8 3 0 find seq alam tour store m 40 5 0 6 VOI V + zoom VOI A over 6 **m** æ 7 8 9 41 ш IÞ + focus dear set 0 44 P esc. --+ iris

At this point, you have access to the CyberDome II programming menus. For more information on the programming menus, see *Accessing programming menus* on page 3.

# Navigating menus with the keypad

You can use multiple methods to navigate through the menu system with your keypad. Use either the keypad joystick, or the pause or play buttons to move up or down and advance through the menu systems.

When you have the desired menu option selected, use either the joystick or the **seq** button to pan right to advance. You may also be able to press the number associated with your desired menu selection to proceed to highlight that option or the next menu.

**Note:** When you press the number associated with an option and there is a value to set, you will automatically be asked to set that value. If there is no value to set, when you press the number associated with an option, that option will be selected and you will proceed to the next menu.

The arrow indicator identifies the property that will be changed. To change a setting, press the **iris** + button. If you change the setting of the property the arrow indicator is on and advance to the next menu, the setting will be saved. Alternatively, you may be able to use the **zoom** + button to advance.

Note: The alternative methods to navigate and select may not work in all menus or with all controlling devices.

When you're in a menu, use the joystick and pan left to back out of the menu screen. When you're performing a function, like setting a mask, or setting an area title, press the **iris** - button to back out of the function to a menu screen.

Figure 2. KTD-405 keyboard

# Camera system menu

When accessing the CyberDome II series, with no *Memory* indication flashing, the following four menus display:

- Product information
- System information
- Password
- Program select

# Memory indication flashing

If the settings stored in the memory of the housing differ from the settings stored in the memory of the camera (PTZ), *Memory* will flash on your monitor. When you log on, you will see the *Memory management* menu (*Figure 3*) asking you to choose which settings you want. The settings you choose overwrite the settings you have chosen not to use. Until you decide which settings to use, the unit will use the settings stored in the camera. Once the settings have been successfully transferred, *Memory* will stop flashing on the monitor.

The *Memory management* screen appears after the *Version* screen in the menu sequence. So if the memory message is flashing, the menu order will be *Product information* > *System information* > *Memory* > *Program select*.



Figure 3. Memory flashing menu

**Note:** There are DIP switch settings on the camera that you can set that will automatically pull the settings from the housing, or push the settings from the camera to the housing. See the *CyberDome II Installation Manual* for more information.

# **Product information**

The first screen (Figure 4) after accessing the main menu provides information on:

- Product name
- Camera type
- Site #/ID
- Unit serial number
- Installation date
- Video format
- Protocol

Figure 4. Cyberdome screen 1



There are no customizable options on this screen. Proceed to the next screen by pressing the fast forward button on the keypad.

# System information

The second screen (*Figure 5*) provides information pertaining to the current software, hardware, and installation information.

Figure 5. Cyberdome screen 2



#### Table 1. Software, hardware, and installation information

Indicator	Information	
D	Type and version date for the D processor.	
Ρ	Type and version date for the pan processor.	
Т	Type and version date for the tilt processor.	
С	Type and version date for the camera processor.	
1	Type and version date for the camera circuit board.	
	<b>Note:</b> If the type and version date are not populated either the camera circuit board is not working properly, or the camera is not in a CyberDome II housing.	

There are no customizable options on this screen. Proceed to the next screen by pressing the fast forward button on the keypad.

#### Password

If you have passwords enabled, you will be prompted to enter your password (*Figure 6*) to proceed. Use the directional buttons to navigate to the numbers, and press **iris** + to input those numbers. If you input the wrong password, the video screen displays. If the password is correct, you will proceed to the *Program select* menu.

If password protection is enabled, it will be the first screen you see, before any of the information screens. Successfully entering the password will take you to the *Product information* screen.

Figure 6. Password screen



# **Program select**

Use the program select menu (*Figure 7*) to choose which submenus you wish to change. To access a particular submenu, either press the number associated with that submenu, or navigate to the desired submenu and press the fast forward button on the keypad.

Figure 7. Program select menu



# Setup menus

Use the setup menus to restore factory default settings, adjust the camera, and adjust system settings. Previously stored settings in the camera (PTZ) and housing nonvolatile memory will be erased.

# **Clear functions**

To clear certain settings and information, do the following on the Clear memory screen (Figure 8):

1. Select options 1, 2, 3, 4, 5, or 6 to clear the memory for the indicated feature.

Figure 8. Clear memory



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- 2. To confirm the restoration of factory defaults (*Figure 9*) for the feature chosen on the previous menu, do one of the following:
  - a. Select option 1 to keep the current settings.
  - b. Select option 2 to delete the current settings and reload the factory default settings.

Figure 9. Confirm



Note: This process may take some time. Observe the counter for an indication of the progress.

#### Autoslow shutter

Enable or disable the autoslow shutter feature (*Figure 10*) to slow down the shutter speed of the camera to see better in dark situations. This feature is disabled by default and will not be displayed if the camera does not support autoslow shutter.

Figure 10. Autoslow shutter





# Autopan speed

This feature selects the speed at which the camera autopans. Use the joystick to set the three speed settings: *slow, med* (default), or *fast (Figure 11)*.

Figure 11. Autopanspeed



## Autoreturn

This feature sets the camera to automatically return after a period of inactivity to a *home* position, a specific preset, a preprogrammed tour, or autopan mode (*Figure 12*). This feature is disabled by default.

Figure 12. Autoreturn



- To disable the autoreturn feature, select option 1.
- To automatically return to the home position, select option 2.
- To automatically return to a preset position, select option 3, press **iris** +, and choose the preset you want to return to.
- To automatically return to a preprogrammed tour, select option 4, press **iris** +, and choose the preprogrammed tour you want to return to.
- To automatically return to autopan, select option 5.

If you choose to autoreturn to a certain setting, set the period of inactivity (return time) referenced in the *Auto Return* menu.

The minimum return time is 15 seconds. The maximum return time is 60 minutes. Use the joystick to increase or decrease the return time for items **2** through **5** in the following increments:

- Increments of fifteen seconds to increase the return time from 15 to 60 seconds.
- Increments of one minute to increase the return time from one to ten minutes.
- Increments of five minutes to increase the return time from ten to 60 minutes.

# Azimuth indicator

The azimuth indicator enables a direction indicator to be displayed on the monitor/screen (Figure 13).

Figure 13. Azimuth indicator



- To disable the azimuth indicator select option 1, the default setting.
- To enable the azimuth indicator to show the heading (N, NE, E, SE, S, SW, W, or NW), select option 2.
- To enable azimuth indicator to show the pan and tilt coordinates, select option **3**.

To calibrate the indicator, do the following:

- 1. Select *set north*, and press **iris** +.
- 2. Move to the desired position for north and press the iris + button. Press the iris button to cancel.

To set where on the screen/display the indicator displays, do the following:

- 1. Select *display row*, and press iris +.
- 2. Set the row between 01(the heading default) and 11 (the coordinate default) by using the joystick to navigate to the desired number and press iris +.

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# Day/night switch

Set the level at which the camera's infrared filter automatically switches in and out at dawn and dusk (*Figure 14*). The light level switch point is adjustable, but should be set only during dawn/dusk conditions.

Note: This menu will only be present if the camera supports day/night switching.

Figure 14. Day/night switch



- Select option 2 to use the KTD-405 keypad to manually activate the switch.
- Select option 3 to switch based on a sensor in the camera.
- Select option 4 to switch based on a sensor on the PTZ tilt arm.

If you select the PTZ tilt arm sensor, you'll have to indicate at which level you want the switch to happen (*Figure 15* on page 12).

Figure 15. Switch level

(	DAY	/NIGHT SWITCH LEVEL
	SWIT	CH LEVEL CHOICES
	1-4: 5: 6-9:	LIGHTER THAN DUSK DUSK/DAWN DARKER THAN DUSK
	l ← PF	ENTER SELECTION: 3 REV ↑SCROLL↓ NEXT→

# Electronic zoom

Set the electronic zoom on the camera. The factory default setting is 4x (Figure 16).

This will extend the camera module's zoom ability to whatever the camera is capable of, multiplied by the choice you make here. If the camera is capable of 26x, and you leave the default here of 4x, the camera will be able to digitally zoom in up to 104x.

Figure 16. Electronic zoom

ELECTRONIC SITE 00	C ZOOM 100 -
1X	<1>
4X	<2>
8X	<3>
128	<15

# **Exposure control**

This option sets the method the camera uses to adjust to different light levels (Figure 17).

Figure 17. Exposure control



- Select option 1 to enable the camera to automatically adjust to different light levels. The **iris** + button toggles the electronic shutter, and the **iris** button toggles backlight compensation for image enhancement.
- Select option 2 to allow manual control of the iris using the iris + and iris buttons.
- Select option 3 to allow manual control of the iris, and then it returns to automatic mode upon pan/tilt movement.

# Image freeze

*Image freeze (Figure 18)* sets whether or not the cameras image will freeze on the screen while the camera is traveling to a preset. Enabling *Image freeze* causes the camera to freeze the last image while the camera is moving and display a static image on the monitor until the camera stops. Disabling the image freeze causes the camera to display live video as the camera moves to the preset location.

Note: This menu will only be present if the camera supports day/night switching.

Figure 18. Image freeze



- Select option 1 to disable (default).
- Select option 2 to enable.

# Lens initialization

Set the duration between automatic camera lens initializations (*Figure 19*). During lens initialization, the camera zooms in and out to find the optimal home position for the lens. If you are running a *ShadowTour*, lens initialization every 24 hours is recommended.

Figure 19. Lens initialization



- Select option 1 to initialize the lens manually (default).
- Select options 2 to 5 to set the duration between automatic lens initializations.

# Lift/gain

Lift is a camera feature that optimizes the video's color over long runs of coaxial cable (Figure 20).

To set the lift value, do the following:

- 1. Navigate to Lift (0-7).
- 2. Press iris +.
- 3. Move the joystick up to increase the lift and down to decrease the lift. Choices range from 0 to 7. Default is 0.

Figure 20. Lift/gain screen

Gain is a feature that optimizes the video's brightness over long runs of coaxial cable. Gain increases the video signal's amplitude to increase the brightness of darkened video and to reduce the noise of weakened video. Use the joystick to adjust the gain. Up increases and down decreases the gain.

To set the gain value, do the following:

- 1. Navigate to Gain (0-31).
- 2. Press iris +.
- 3. Use the joystick up to increase the gain and down to decrease the gain. Choices range from 0 to 31. Default is 0.

**CAUTION:** Lift and gain compensate for long runs of video coaxial cable. Only qualified personnel should adjust these settings. Incorrect adjustments can impair video quality.

# Max tilt/pan speed

Use this to set the maximum manual control pan and tilt speed (Figure 21).

Figure 21. Pan/tilt speed



To set the pan and tilt speed, do the following:

- 1. Select the setting you want to change.
- 2. Press the iris+.
- 3. Use the joystick to set the speed from 20 to 120 (default is 120).
- 4. When finished, press iris +.

Note: The units of measure used for this feature are in degrees per second.

#### **Pressure warning**

Use this feature to enable or disable the pressure warning (Figure 22).

Note: This menu is only enabled when using a CyberDome II camera inside a CyberDome II PressurDome housing.

Figure 22. Pressure warning



If you enable the pressure warning, you will be asked to set the level at which the warning displays. Move the joystick up or down to choose from 0.5 PSI to 5.0 PSI in 0.1 PSI increments. The pressure warning displays on

the screen when the pressure (temperature-compensated pressure, relative to sea-level atmospheric pressure) in the dome drops below the value selected on this menu.

# **Preset speed**

Set the speed at which the camera travels between presets (*Figure 23*). This setting is used when calling up presets manually. Use the joystick to set the four speed settings: *slow, med, fast,* or *max*.

Figure 23. Preset speed



**Note:** When using fast and max speeds to move between presets, if the presets are close together, the camera location may be less accurate when it arrives at the preset location.



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# **Proportional speed**

The proportional speed feature (*Figure 24*) decreases the pan/tilt speed of the camera to provide better tracking when the camera is zoomed in. This helps reduce pan/tilt overshoot when zooming in on objects far from the camera.

Figure 24. Proportional speed



- Select option 1 to disable proportional speed.
- Select option 2 to enable proportional speed.

# Quick spin

Quick spin (*Figure 25*) automatically rotates the camera 180° when the bottom tilt limit is reached. This feature enables tracking of a target passing directly under the camera.

Figure 25. Quick spin



- Select option 1 to disable quick spin.
- Select option 2 to enable quick spin.

# Shutter speed

Use this feature to select the shutter speed (*Figure 26*). Select the number that corresponds with the desired speed to set the shutter speed for either a NTSC or PAL.

Figure 26. Shutter speed



During pan/tilt operation, shutter speed is controlled automatically by the camera. Set *Exposure control* to automatic and enable *Autoslow shutter* so that shutter speed can be adjusted to enhance the video image while the camera is in a stationary position in low or bright light. To use the settings in the *Shutter speed* menu during live video, press the **iris** + button. Press **iris** - or move the camera to return the settings to automatic.

**Note:** When you set the shutter speed to anything other than automatic, the setting will override the manual return to autoiris control, making the iris always fully automatic.

# Site number display

Enable or disable the display of the camera site number in the upper left-hand corner of the monitor screen (*Figure 27* on page 20).

- **Note:** Diagnostic mode will display raw pan, tilt, zoom, and protocol selected information on your live video screen. This information is intended for use when contacting technical support.
  - Select option 1 to disable site number display.
  - Select option 2 to enable site number display.
  - Select option 3 to enter diagnostic mode.





# Synchronization

Set the video signal to be synchronized either to the AC input frequency (line lock) or to the camera's internal clock.

Figure 28. Synchronization



Select option 1 to select line lock. If you want to enable this feature, press the **set** button. Press **iris**+ to adjust line lock. It takes five seconds to upload the synchronization lock page.

Note: If after pressing the **set** button, your menus disappear, press the **iris** - button to escape out of this setting. The setting will go back to option 2.

Select option 2 to set the video signal to the camera's internal crystal. Adjusting the vertical phase requires an oscilloscope or a KTS-56 phase adjustment tool.

# **Temperature display**

Enable or disable the temperature display feature, which will show the temperature on the screen (Figure 29).

Figure 29. Temperature display



- Select option 1 to disable temperature display.
- Select option 2 to enable temperature display, showing Fahrenheit.
- Select option 3 to enable temperature display, showing Celsius.

To set the display area, do the following:

- 1. Navigate to the fourth option, Display Row.
- 2. Press the **iris**+ key.
- 3. Use the joystick to navigate to a number between 01 and 011.
- 4. Press the **iris** + to set the row.

# White balance

Select the method by which the camera shifts its output colors to compensate for the color of a light source.

Figure 30. White balance



- Select option 1 for automatic white balance.
- Select option 2 for ATW (white balance is adjusted while the image changes).
- Select option 3 for a static indoor setting.
- Select option 4 for a static outdoor setting.
- Select option 5 to make manual adjustments. The Manual Wbal adjust menu (Figure 31) displays.

Figure 31. Manual white balance menu

MANUAL W	BAL ADJUST
BLUE	<↑↓>
 RED	<← →>
IRIS+-> ← PREV	ADJUST NEXT→

Press iris +, then use the joystick to modify white balance to the desired setting. Press iris + again to save.

- Up and down adjust the blue level in the picture.
- Left and right adjust the red level in the picture.

#### Wide dynamic range (WDR)

Wide dynamic range technology produces high detailed frames by combining two shutter speeds in alternate video fields (high/normal) every 1/60th (or 1/50th) of a second. This effectively allows you to see details of objects in shadows or details of objects in bright areas of frames that have a large contrast between light and dark areas. Select **Enable** turns this feature on in the camera, or **Disable** turns this feature off in the camera.

# Zoom speed control

Select the speed at which the camera will zoom Figure 34).

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Figure 32. Zoom speed control
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- Select option 1 for variable speed.
- Select option 2 for a slow fixed speed.
- Select option 3 for a medium fixed speed.
- Select option 4 for a fast fixed speed.
- **Note:** Variable speed is only available when using the Digiplex protocol, connected through the RS-422 connection. If you are not using the right protocol or connection, the setting will default to medium-fast speed. Also, this feature is not supported by all cameras

# **Presets menu**

CyberDome II cameras can store up to 128 preset positions (numbered 1 to 128). To enter preset positions, do the following:

- 1. Select the *Program select* menu (*Figure 7* on page 7).
- 2. Navigate to option 2 and pan right. The *Preset programming* menu displays (*Figure 33*).

Figure 33. Preset programming menu

PRESET PROGRAMMING SITE 0000
MOVE CAMERA TO DESIRED PRESET LOCATION, THEN PRESS <iris +=""> TO START OR <iris -=""> TO CANCEL</iris></iris>

- 3. Move the camera to the desired position.
- 4. Press the **iris** + button.
- 5. Enter a three-digit number to indicate the preset position (000 to 128). Use a number that is equal to or greater than the lowest unused number indicated on the screen.

Note: Preset numbers 62 and 63 are reserved for autopan limit settings.

A message displays for two seconds to confirm that the preset position has been stored.

- 6. Repeat steps 3 through 5 for all additional preset positions to be stored.
- 7. Press iris- to return to the *Program select* menu.

# Titles/areas menu

Under the titles/areas menu, you can set titles for preset positions, areas, the camera, and tours. *Figure 34* identifies the available character set.

Figure 34. CyberDome II character set  $0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9$   $a \ b \ c \ d \ e \ f \ g \ h \ I \ j \ k \ l \ m \ n \ o \ p \ q \ r \ s \ t \ u \ v \ w \ x \ y \ z$   $A \ B \ C \ D \ E \ F \ G \ H \ I \ J \ K \ L \ M \ N \ O \ P \ Q \ R \ S \ T \ U \ V \ W \ X \ Y \ Z$  $( \leftarrow \rightarrow \uparrow \downarrow) - :; ? +$ 

# **Preset titles**

To assign onscreen titles for any of the 128 preset positions, do the following:

- 1. Navigate to the *Program select* menu (*Figure 7* on page 7).
- 2. Navigate to option 3 and pan right. The *Edit titles/areas* menu displays (*Figure 35*).

Figure 35. Edit titles/areas menu



3. Navigate to option 1 and pan right. The Preset titles menu displays (Figure 36).

Figure 36. Preset titles menu

	PRESET TITLES SITE 0000
EN	TER PRESET NUMBER: <000 – 128>
	0123456789 ESC ↑
(-MO	VE→ R: 000 - 128 ↑SELECT

4. Enter the preset number (000 to 128) of the preset title to be edited. The *Title entry* menu displays (*Figure 37*).

Figure 37. Title entry menu

	002 <preset 002<br="">↑</preset>
	IRIS+ -> SAVE
*	-PREV ↑SCROLL↓ NEXT →

- 5. The display location for the title can be moved up and down onscreen. To set the location, confirm that the cursor (arrow) is in the far left position (under the preset number). Use the joystick to move the position of the title up and down. The title cannot be moved from left to right.
- 6. To enter or edit the title, move the cursor to the right (inside the parentheses). Use the joystick to scroll up and down to the desired alphanumeric character.
- 7. When the title is set, press the **iris** + button to return to the *Preset titles* menu.
- 8. Repeat steps 4 through 7 for any additional titles, or press iris to return to the *Edit Titles/Areas* menu.

# Area and titles

Some CyberDome II models can display a title over a selected area on their pan/tilt routines.

To program a titled area, do the following:

- 1. Navigate to the *Edit titles/areas* menu (*Figure 35* on page 25).
- 2. Navigate to option 2 and pan right. The Assigning area titles menu displays (Figure 38).

Figure 38. Assigning area titles menu

ASSIGNING AREA TITLES -- SITE 0000 --ENTER AREA NUM: - -<01-16> 0123456789 ESC î LOWEST UNUSED AREA: 01 ←MOVE→ R: 01-16 ↑SELECT

3. Use the keypad to enter the number (01 to 16) of the area to be programmed and titled. The *Area 01 programming* menu displays.

Figure 39. Area 01 programming menu



- 4. To define the boundaries of an area, use the joystick to pan/tilt the camera to the upper left corner of the desired area and press the **iris** + button.
- 5. Use the joystick to pan/tilt the camera to the lower right corner of the desired area and press the **iris** + button.
- 6. The *Title entry* menu displays.

Figure 40. Title entry menu



To assign and edit area titles, do the following:

- 1. Confirm that the cursor (arrow) is under the area ###.
- 2. To move the display location for the title up or down on the screen, move the joystick up or down. (The title cannot be moved left or right.)
- 3. To enter or edit the title, move the cursor to the right (inside the parenthesis).
- 4. Move the joystick up and down to scroll to the desired alphanumeric character (Figure 34 on page 25).
- 5. Move the joystick right and left to move to the next character or edit the previous character.
- 6. When the title is complete, press the **iris** + button to save the title and return to the *Assigning area titles* menu.

- 7. Repeat steps 3 through 5 of the previous process, and steps 1 through 6 of this process for any additional area titles. Otherwise, press **iris** to return to the previous menu.
  - **Note:** If you set an area title, when you press **iris-** to return to the previous menu, the camera will display a screen that says *Mapping Areas*, and will show you a percent complete.

## Camera title

CyberDome II models show a title for the camera. To set a title for the camera, do the following:

- 1. Navigate to the *Edit titles/areas* menu (Figure 35 on page 25).
- 2. Navigate to option 3 and press iris +. The *Title entry* menu displays (*Figure 40*).
- 3. Confirm that cursor (arrow) is under the camera ### (three-digit number).
- 4. To move the display location for the title up or down on the screen, move the joystick up and down. (The title cannot be moved from left to right.)
- 5. To enter or edit the title, move the cursor to the right (inside the carets).
- 6. Move the joystick up and down to scroll to the desired alphanumeric character.
- 7. Move the joystick right or left to move to the next character or edit the previous character.
- 8. When the title is complete, press the **iris** + button to save the title and return to the *Edit Title/Areas* menu.

#### Tour title

CyberDome II models show a title when on a tour. To set a title for a tour, do the following:

- 1. Navigate to the *Edit titles/areas* menu (*Figure 35* on page 25).
- 2. Navigate to option 4 and pan right. The *Tour titles* menu displays (*Figure 41*).

Figure 41. Tour titles menu



3. Use the keypad to enter the number (1 through 8) of the tour to be titled and programmed. The *Tour title entry* menu displays.

Figure 42. Tour title entry menu



- 4. Confirm that the cursor (arrow) is under the tour ###.
- 5. To move the display location for the title up or down on the screen, move the joystick up and down. (The title cannot be moved from left to right.)
- 6. To enter or edit the title, move the cursor to the right (inside the carets).
- 7. Move the joystick up and down to scroll to the desired alphanumeric character.
- 8. Move the joystick right or left to move to the next character or edit the previous character.
- 9. When the title is complete, press the iris + button to save the title and return to the *Tour titles* menu.
- 10. Repeat steps 3 through 9 for any additional titles you wish to set or edit. Otherwise, press **iris** to return to the *Edit titles/areas* menu.



To review the current setup settings for your camera, select option 4 (*Current status*) from the *Program select* menu and pan right. Settings cannot be entered or changed from the *Setup status* menus. CyberDome II cameras with preset and area features have status menus that show programmed presets and programmed areas by putting an *X* next to them in the menu. The typical *Setup status* menus are shown in *Figure 43*.

Note: If the camera does not support an option it is not displayed on the status page.

Figure 43. Status menus	
SETUP STATUS CAM: XXXX AUTO PAN SPEED: FAST RESUME: TOUR 1 RESUME TIMER: 1MIN AZIMUTH INDICATOR: OFF MAX PAN: 120 TILT:120 PRESET SPEED: MED1 ZOOM PROP. P/T: ON QUICK SPIN: ON PWR-ON ACTION: OFF ← PREV NEXT →	SETUP STATUS CAM: XXXX DAY/NIGHT: MAN ELECTRONIC ZOOM: 12X IRIS COTNROL: AUTO LIFT: 0 GAIN: 00 SHUTTER SPEED: 1/60 IMAGE FREEZE: OFF LINE LOCK: OFF WHITE BALANCE: MAN CAMERA: SONY 980P ← PREV NEXT →
SETUP STATUS CAM: XXXX AUTO SLOW SHUTTER: ON ZOOM SPEED: VAR LENS INITIALIZTN: 4 HR PRESSURE WARNING: ON TEMP DISPLAY: ON SITE NO. DISPLAY: ON PIB FLAGES: 0019 PIB HW SERIAL: 00 ← PREV NEXT →	PRESET STATUS         CAM: XXXX           001 PRESET 001         002 PRESET 002         X           003 PRESET 003         004 PRESET 004         005 PRESET 005         X           006 PRESET 005         X         006 PRESET 007         008 PRESET 008         ×           ← PREV ↑SCROLL↓         NEXT →         ×         ×         ×
AREA STATUS CAM: XXXX         001 AREA 01       X         002 AREA 02       003 AREA 03       X         004 AREA 04       005 AREA 05       X         006 AREA 06       007 AREA 07       008 AREA 08         ← PREV ↑SCROLL↓ NEXT →	TOURS STATUS       CAM: XXXX         001 TOUR 1       X         002 TOUR 2       X         003 TOUR 3       X         004 TOUR 4       X         005 SHADOWTOUR 1       X         006 SHADOWTOUR 2       X         007 SHADOWTOUR 3       X         008 SHADOWTOUR 4       X         +- PREV       NEXT →

- To page up and down through the menus, move the joystick left or right.
- To return to the *Program select* menu, press iris -.

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# **Tours**

Tours 1 through 4 in the PTZ programming menu are preset tours. Tours 5 through 8 in the PTZ programming menu are shadow tours.

# **Preset tours**

CyberDome II cameras have preset tour capability. A preset tour is composed of a group of preset positions that the operator can program to be linked together in a sequence.

Each tour consists of a string of up to 64 steps, or presets, which are programmed by the user.

1. Navigate to option 5 on the *Program select* menu and pan right. The *PTZ tour programming* menu displays (*Figure 44*).

Figure 44. PTZ tour programming menu



2. From the *PTZ Tour Programming* menu, select the tour to be edited. The *Tour programming* menus display.

Figure 45. Tour programming menus



- 3. Navigate to option 1 and pan right to edit the tour.
- 4. Navigate through and use **iris** + to set the *preset*, *position*, *dwell time*, *speed*, *zoom*, and *TTL* (*Figure 46*).

*Figure 46. Sample tour program settings* 

```
TOUR X PROGRAMMING
ST POS DW SPD ZM TTL
ST = Step of the preset. May have up to
64 presets and must be set for a preset
tour.
POS = Preset number assigned to that step
of the tour
DW = Dwell time. This is the amount of
time that the position is held before
moving to the next step of the tour.
SPD = The speed that the camera travels
to that preset.
ZM = FZ or ZO. FZ freezes the last image
while moving to the next preset. ZO zooms
out first, moves to the next preset, then
zooms to the preset numbers zoom factor.
TTL = Turns the preset title on or off
```

- 5. For each step programmed, the following information must be entered:
  - The preset number (1 to 128).
  - The dwell time at each step (1 to 127 seconds). The default dwell time is 2 seconds.
  - The speed at which the camera moves between presets. There are three speed settings: SLW (slow), MED (medium), and FST (fast). Press the **iris** + to cycle through the speed settings.
  - The zoom level (freeze (FZ) or zoomed out (ZO)).
  - The title (TTL) (on or off).
- 6. To finish programming a tour, press the iris key. The PTZ tour programming menu displays.
- 7. Navigate to option two to play the tour, to verify, and press the **iris** + to exit back to the previous menu.

# **ShadowTour**

CyberDome II cameras have *ShadowTour* capability. A *ShadowTour* is a tour that the camera "learns" by recording up to five minutes of manual *P*, *T*, and *Z* operation. Use a keypad to manually direct your camera through the desired PTZ movements, and the camera stores in memory the movements you performed. This recorded tour can be replayed at any time.

To program a new ShadowTour, do the following:

- 1. Navigate to option **5** from the *Program select* menu (*Figure 7* on page 7). The *PTZ tour programming* menu displays (*Figure 44* on page 31).
- 2. Pan right with the joystick to advance to the *PTZ tour programming* menu that displays *ShadowTours* (*Figure 45* on page 32).
- 3. Select the tour to be created.
- 4. Select **1** to select *New tour*.
- 5. Press **iris** + to start the timer.
- 6. Move the camera through the desired movements.
- 7. Press **iris** + and *Please wait* appears. Two count downs occur before returning to the Shadowtour menu.
- 8. Press iris to exit back to the *PTZ tour programming* menu.
- 9. Repeat steps 2 through 8 for more *ShadowTour* programming. Otherwise, press **iris-** until you exit back to the *Program select* menu.

To review an existing ShadowTour, do the following:

- 1. Select option **5** from the *Program select* menu (*Figure 7* on page 7). The first menu to display is the *PTZ tour programming* menu (*Figure 44* on page 31).
- 2. Press **Fast forward**, or pan right with the joystick to advance to the *PTZ tour programming* menu that displays *ShadowTours*.
- 3. Select the tour to be reviewed.
- 4. Select **3** to play the tour.
- 5. The tour will play indefinitely until stopped by a key or joystick movement.

- 6. Press iris- to exit back to the *PTZ tour programming* menu.
- 7. Repeat steps 2 through 6 to review other *ShadowTours*.

To edit a previously programmed ShadowTour, do the following:

- 1. Select 5 from the *Program select* menu. The first menu to display is the *PTZ tour programming* menu.
- 2. Pan right with the joystick to advance to the *PTZ tour programming* menu that displays *ShadowTours* (*Figure 45* on page 32).
- 3. Select the tour to be reviewed.
- 4. Select **2** to edit the tour.
- 5. The tour will start to play. Use the joystick to edit the tour at any point. From that breakpoint, only the new movements will be saved and all previously saved tour movements will be lost. To exit, without modifying the tour, press **iris** before moving the joystick.
- 6. When you finish editing, press iris + to return to the *ShadowTour* menu.
- 7. Repeat steps 2 through 7 to edit other *ShadowTours*.

To delete a ShadowTour, do the following:

- 1. Select option 5 from the *Program select* menu. The *PTZ tour programming* menu displays.
- 2. Press fast forward, or pan right with the joystick to advance to the *PTZ tour programming* menu that displays *ShadowTour*.
- 3. Select the tour to be deleted.
- 4. Select 4 to delete the tour. A *Please wait* statement displays.
- 5. Press iris to exit back to the *PTZ tour programming* menu.
- 6. Repeat steps 2 through 5 to delete any other *ShadowTour*.

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# **Additional menus**

1. The Privacy mask and System startup are submenus of Program select menu 2 (Figure 47).

Figure 47. Program select additional menus

```
PROGRAM SELECT MENU 2

-- SITE 0000 -

→ PRIVACY MASKS <1>

SYSTEM STARTUP <2>

ENTER SELECTION: 1

← PREV ↑SCROLL↓ NEXT →
```

# **Privacy masks**

To set a privacy mask, do the following:

Note: Privacy masks do not display if they were not implemented in your installation.

- 1. From the *Program select* menu (*Figure 7* on page 7), select 6 to go to *Additional menus*.
- 2. From the Program select menu 2 (Figure 47), select 1. The Privacy masks menu displays (Figure 48).

Figure 48. Privacy mask

```
PRIVACY MASKS

-- SITE 0000 --

SELECT MASK: A

LOWEST AVAIL: A

← PREV ↑SCROLL↓ NEXT →
```

- 3. Select the letter of the mask you want to create or edit (A through X).
- 4. Pan right with the joystick to proceed.
- 5. Center the crosshairs on the center of the area you want to mask off and press the **iris** + button (*Figure 49* on page 36).







6. Using the joystick, set the size of the mask by pushing up or down to increase or decrease the vertical size of the mask (*Figure 50*), or left or right to increase or decrease the horizontal size of the mask.

Figure 50. Privacy mask adjust



- 7. When finished, press iris + again to set the mask and return to the *Privacy masks* menu.
- 8. Repeat steps 3 through 7 for additional masks.

# System startup

The system startup menu allows you to enable, disable, and change passwords, as well as set the installation date, set an action on power-up, and set position reporting.

# Passwords

To change the password from the default of 3477, do the following:

1. Select **2** from the *Program select menu 2 (Figure 47* on page 35). The *Password protection* menu displays (*Figure 51*).





2. Select **3**. The *Change password* menu displays (*Figure 52*).

Figure 52. Change password menu



- 3. Using the number selecting line, enter four numbers for your password.
- 4. Enter those same numbers again when prompted.
- 5. *Password saved* is displayed onscreen, and the menu exits back to the *Password protection* menu (*Figure 51*).

To enable passwords, do the following:

- 1. From the *Program select menu 2* screen (*Figure 47* on page 35), select **2**. The *Password protection* menu displays.
- 2. Select 2.

You have now enabled passwords, which means when you log onto the camera with a controlling device, you'll need to enter that password to access any programming.

To disable passwords, do the following:

- 1. From the *Program Select Menu 2* screen, select 2. The *Password protection* menu displays.
- 2. Select 1.

You have now disabled passwords. Anyone will be able to access the camera's programming without a password.

**CAUTION:** If you change the password from the default, when you select *Password disable*, the password is changed back to the default automatically. So, if you ever reenable passwords, make sure to change the password again, or remember that the password is the default password (3477).

# Installation date

To customize your installation date, do the following:

- 1. From the Program select menu 2 screen, press 2. The Password protection screen displays.
- 2. Using the joystick, pan right to proceed past the *Password protection* screen. The *Installation date* menu displays (*Figure 53*).

Figure 53. Installation date menu



- 3. Press iris + to edit the date.
- 4. Using the joystick to navigate the number selection string, enter the desired installation date in *YY*/*MM/DD* format.
- 5. Once you have verified that it is the correct date, press iris + again to save the date.

Note: Once set the installation date can only be cleared by doing a *Clear all* to reset to factory defaults.

#### Power up actions

You can set the CyberDome II to do a certain action when it is first powered up. To set a power up action, do the following:

- 1. From the *Program select menu 2* screen (*Figure 47* on page 35), select **2**. The *Password protection* screen displays (*Figure 51* on page 37).
- 2. Using the joystick, navigate to right to proceed past the *Password protection* screen, and then again to pass the *Installation date* screen.
- 3. Choose the action you want the camera to take when it first powers up.
  - Select 1 for none, or no actions.

- Select 2 for home.
- Select **3** for a specific preset. Press **iris** + to enter the three-digit-number (000 to 128) of the preset you want to use.
- Select 4 for a specific tour. Press **iris** + to enter the one-digit number (1 to 8) of the tour you want to use.
- Select 5 for autopan.

# **Position reporting**

You can enable or disable position reporting on your CyberDome II. To do so, do the following:

- 1. From the *Program select menu 2* screen, select 2. The *Password protection* screen displays.
- 2. Using the joystick, pan right to proceed past the *Password protection* screen, the *Installation date* screen, and *Power on action* screen. The *Position reporting* screen displays.
- 3. Press 1 to disable, or press 2 to enable.

CAUTION: Enabling this feature may flood the RS-485 communication lines.

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# Chapter 2 Troubleshooting and support

This chapter provides information to help you troubleshoot problems and contact technical support in case you need assistance with your GE equipment.

In this chapter:

Troubleshooting	4
Common issues	4
Contacting technical support	5
Online publication library 4	5

# Troubleshooting

This section provides information to help you diagnose and solve various problems that may arise while configuring or using your GE product and offers technical support contacts in case you need assistance.

# **Common issues**

The following are the most common troubleshooting issues and their solutions:

• The camera is displaying abnormal behavior. I have some control of the unit, but the camera is acting strangely.

You can perform a restart from the controlling device, as long as you have control. To do the restart, do the following:

- 1. Switch the keypad to the camera site you wish to reset.
- 2. Press and hold the **set** button until *Enter programming code* appears.
- 3. Press 1, 4, 7, 6 and seq on the keypad.
- 4. You will see *Reset to Defaults* appear in the keypad window. Press iris + to proceed.

**Note:** Despite the term *Reset to defaults*, this action does not reset any settings on the camera. It will only restart the camera, as if you had cycled the power at the camera.

- 5. Press 3 for camera.
- 6. You will see *Reset camera X*? *Are you sure*? where X refers to the camera that the keypad was set to before entering the 1, 4, 7, 6 and seq menu. Press iris + to proceed.

The camera will reset. If problems persist, check the data communication lines and power to the camera.

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# **Contacting technical support**

For assistance installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, you may contact technical support during normal business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Table 2. Service and support contact information

	Customer service	Technical support
Phone	<b>Toll-free:</b> 888.GESECURity (888.437.3287) in the US, ind Outside the toll-free area: 503.885.5700.	cluding Alaska and Hawaii; Puerto Rico; Canada.
E-mail	gesecurity.customerservice@ge.com	nstechsrv@ge.com
Fax	888.329.0331	888.329.0332

Note: Be ready at the equipment before calling for technical support.

# **Online publication library**

Another great resource for assistance with your GE product is our online publication library. To access the library, go to our website at the following location:

http://www.gesecurity.com

In the **Customer Support** menu, select the *Resource Library* link. After you register and log on, you may search through our online library for the documentation you need.<sup>1</sup>

<sup>1.</sup> Many GE documents are provided as PDFs (portable document format). To read these documents, you will need Adobe Reader, which can be downloaded free from Adobe's website at *www.adobe.com*.

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# **Appendix A Defaults**

This appendix provides a list of default settings. In this appendix:

# Defaults

The following table lists the defaults for each setting in the Setup menu on CyberDome II.

Table 3. Setup menu	
Menu property	Default setting
Autoreturn	Disable
Autoslow shutter	Disable
Autopan speed	Medium
Azimuth indicator	Coordinates
Day/night switch	Dome sensor
Day/night switch level	5
Electronic zoom	4x
Exposure control	Manual/return to automatic
Image freeze	Disabled
Lens initialization	Manual only
Lift	0
Gain	0
Max pan speed	120
Max tilt speed	120
Password Protection	Disable
Position Reporting	Disable
Power up action	Home
Pressure warning	Disable
Preset speed	Fast speed
Proportional speed	Enable
Quick spin	Enable
Shutter speed	Automatic
Site number display	Disable
Synchronization	Internal 2:1
Temperature display	Disable
White balance	Automatic
Zoom speed control	Variable speed

# Toxic and hazardous element levels

The levels for toxic and hazardous elements listed in this table apply to the following SKUs:

 CYH-4101, CYH-4201, CYH-4202, CYH-4301, CYH-4401, CYH-4402, CYH-4501, CYH-4502, CYH-4602, CYH-4701, CYH-5101, CYH-5201, CYH-5202, CYH-5301, CYH-5401, CYH-5402, CYH-5501, CYH-5502, CYH-5602, CYH-5701, CYP-1111, CYP-1121, CYP-1301, CYP-1302, CYP-1311, CYP-1312, CYP-1411, CYP-1412.

	Toxic or hazardous substances and elements					
	有毒有害物质或元素					
	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent chromium (Cr(VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Circuit boards 电路板	Х	0	0	0	0	0
<b>Motors</b> 外壳	0	0	Ο	0	0	Ο
Plastics 支架	0	0	0	0	0	0
Hardware 硬件	0	0	0	0	0	0

X: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

表示该有害物质至少在该部件的某一均质材料中的含量超出SJ11363-2006标准规定的限量要求。

0: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

表示该有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求下。

# Toxic and hazardous element levels

The levels for toxic and hazardous elements listed in this table apply to the following SKUs:

 CYH-4101, CYH-4201, CYH-4202, CYH-4301, CYH-4401, CYH-4402, CYH-4501, CYH-4502, CYH-4602, CYH-4701, CYH-5101, CYH-5201, CYH-5202, CYH-5301, CYH-5401, CYH-5402, CYH-5501, CYH-5502, CYH-5602, CYH-5701, CYP-1111, CYP-1121, CYP-1301, CYP-1302, CYP-1311, CYP-1312, CYP-1411, CYP-1412.

		Toxic or hazardous substances and elements				
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Circuit boards	Х	0	0	0	0	0
Housing	0	0	0	0	0	0
Brackets	0	0	0	0	0	0
Hardware	0	0	0	0	0	0

X: Indicates that this toxic or hazardous substance, contained in all of the homogeneous materials for this part, is below the limit requirement in SJ/T11363-2006.

0: Indicates that this toxic or hazardous substance, contained in at least one of the homogeneous materials for this part, is below the limit requirement in SJ/T11363-2006.

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