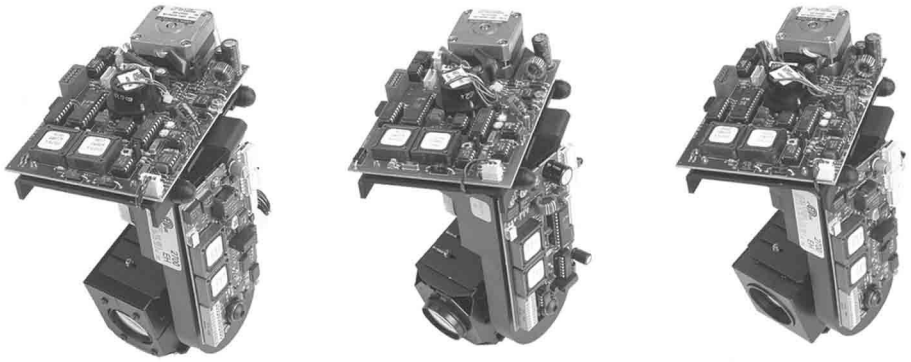
Programming

Manual

CyberDome Series



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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

You are cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Technical support is available 24 hours a day, 7 days a week.

Call:	**Tech Support**	800-469-1676 (6 A.M. – 5 P.M. PST Monday through Friday)
	Tech Support	541-740-3589 (all other times)
	Main	800-343-3358 or 541-754-9133
Fax:	**Tech Support**	541-752-9096 (available 24 hours a day)
	Main	541-754-7162
Web:	www.kalatel.com	

1032476D / January 2003

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BEFORE YOU BEGIN

Read these instructions before installing or operating this product.

Note: This installation should be made by a qualified service person and should conform to local codes.

This manual provides installation and operation information. To use this document, you must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring and low-voltage electrical hookups

Intended use

Use this product only for the purpose for which it was designed; refer to the product specification and user documentation.

Customer Support

For assistance in installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, please contact Kalatel Technical Support and Sales:

GE Interlogix, Kalatel division
Call: 800-469-1676
Fax: 541-752-9096

Note: You should be at the equipment and ready with details before calling Technical Support.

Conventions Used in this Manual

Boldface or button icons highlight command entries. The following **WARNING, CAUTION,** and **Note** statements identify potential hazards that can occur if the equipment is handled improperly:

* **WARNING:**
Improper use of this equipment can cause severe bodily injury or equipment damage.

** **CAUTION:**
Improper use of this equipment can cause equipment damage.

Note: Notes contain important information about a product or procedure.

* This symbol indicates electrical warnings and cautions.
** This symbol indicates general warnings and cautions.

1 INTRODUCTION

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

Kalatel's Digiplex controller keypads are used to enter settings for the CyberDome cameras. There are three basic models of keypad: the KTD-405, KTD-404/304, and KTD-400/300. The KTD-405 and KTD-404/304 provide joystick control and the KTD-400/300 uses arrow keys to control directions. Refer to the appropriate keypad manual for more information.

2 ACCESSING PROGRAMMING MENUS

If you are using a KTD-405 keypad to program your system, follow the instructions in section 2.1.1. If you are using a KTD-404/304 or KTD-400/300, follow the instructions in section 2.1.2.

2.1 INITIATING ACCESS WITH THE KEYPAD

2.1.1 USING A KTD-405

To access the programming mode begin at the normal operating display shown in Figure 1 and perform the following.

```
CAMERA 000
MONITOR 01
```

Figure 1. KTD-405 normal operating display

1) Press and hold the enter key (◄┘) until the Enter Programming Code display (Figure 2) appears.

```
ENTER PROGRAMMING
CODE:
```

Figure 2. KTD-405 Enter Programming Code display

2) At the code entry display, enter the programming access code ***9***,***5***,***1***,***seq***.

```
1=SWITCHER/MPLX   2=ALARMS
3=CAMERA/RCVR     EXIT◄◄
```

Figure 3. KTD-405 first menu display

3) At the first menu display (Figure 3), press ***3***.

```
1=CYBERDOME       2=PTZ
3=AUXILIARY       ◄◄BACK
```

Figure 4. KTD-405 enter site number display

4) At the enter site number display (Figure 4), press ***1***.

```
ENTER CYBERDOME SITE
NUMBER _ _ _    ◄◄BACK
```

Figure 5. KTD-405 camera/receiver display

5) At the camera/receiver display (Figure 5), enter the site number of the camera you are programming.

Note: If the menu does not appear on the monitor, confirm that you are entering an existing camera/site number**.**

Subsequent menus display on the monitor screen.

The initial programming screen displays the start-up menu (Figure 6), which includes software version information.

```
   CYBERDOME DAY-NITE
     -- SITE 0000 --
 D: A00A8MOD MMDDYY
T1: A0008MST MMDDYY
T2: A0008MST MMDDYY
 C: A00A8MOC MMDDYY
ID: XXXXXXXX
HOLD <SEQ> 3SEC-EXIT

<ALARM>-HLP<SEQ>-NEXT
```

Figure 6. Start-up menu

Proceed to section 2.2.

2.1.2 USING A KTD-404/304 OR KTD-400/300

To access the programming mode begin at the normal operating display shown in Figure 7 and perform the following.

1) Press and hold the ***set*** key until the code entry display (Figure 8 or Figure 9, depending on the keypad being used) appears.

2) At the code entry display, enter the access code ***9***,***5***,***1***,***seq***.

Figure 7. KTD-404/304 and KTD-400/300 normal operating display

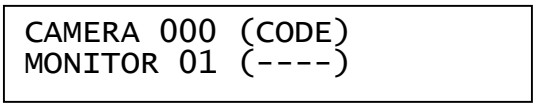

Figure 8. KTD-400/300 code entry display

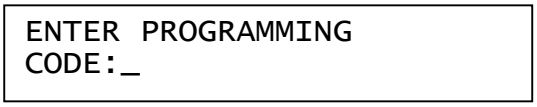

Figure 9. KTD-404/304 code entry display

3) At the first menu display (Figure 10 or Figure 11, depending on the keypad being used), press ***4***.

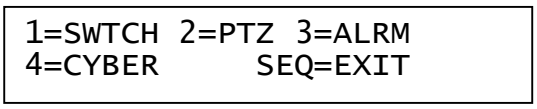

Figure 10. KTD-400/300 first menu display

Figure 11. KTD-400/300 first menu display

4) At the enter site number display (Figure 12), enter the site number of the camera you are programming.

5) At the CyberDome monitor display (Figure 13), press ***1*** to confirm that the proper site is displaying, or press ***0*** to enter keypad menus for older CyberDomes.

Subsequent menus display on the monitor screen.

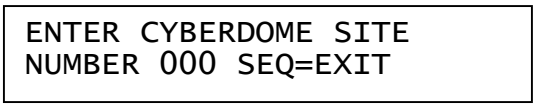

Figure 12. KTD-400/300 and KTD-404/300 enter site number display

Figure 13. KTD-400/300 and KTD-404/304 CyberDome monitor display

The initial programming screen displays camera model information (Figure 14).

Press ***1*** to continue to the start-up menu (Figure 15), which displays software version information.

Proceed to section 2.2.

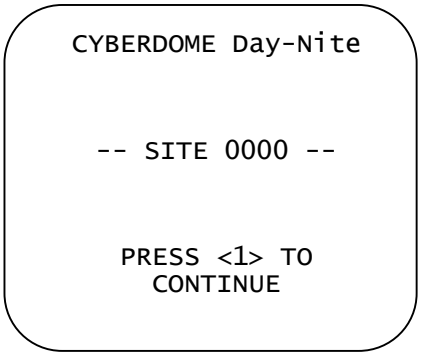

Figure 14. Camera model Display

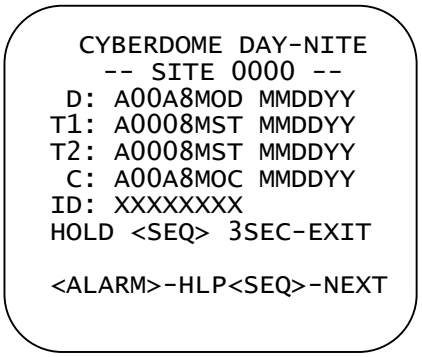

Figure 15. Start-up menu

2.2 ADVANCING TO THE MAIN PROGRAMMING MENU (ALL KEYPADS)

After the start-up menu displays, press ***seq*** to advance to the main programming menu, the Program Select menu (Figure 16).

Note: Option 3 of the Program Select menu for some camera models displays "Titles," not "Titles/Areas."

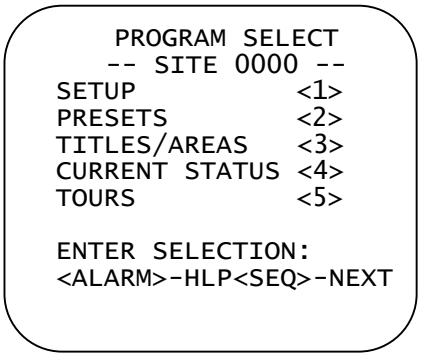

Figure 16. Program Select menu

3 PROGRAMMING CAMERA SETTINGS

The CyberDome cameras are operable when installed. If the factory default settings for the camera are acceptable, it is not necessary to reprogram the camera. Default settings for the setup features are available on the help screen for the Clear Memory menu (Table 1, page 10).

To enter the setup menus, press ***1*** from the Program Select menu (Figure 16). (See section 2 to access the Program Select menu.)

3.1 NAVIGATING THE SETUP MENUS

- To accept the settings displayed on the current menu and advance to the next menu, press ***seq*** (KTD-404/304 or -400/300) or ►► (KTD-405).
- To return to the preceding menu, press ***1st*** (KTD-404/304 or -400/300) or ◄◄ (KTD-405).
- To select a setting, press the keypad number that corresponds with the choice in the menu.
- To view related help at any point during programming, press ***alarm***.
- Some menus require the use of the arrow keys (KTD-400/300 or KTD–404/304) or joystick (KTD-405).

3.2 USING THE SETUP MENUS

The Setup Menus and their corresponding functions are illustrated and explained in Table 1.

Table 1. CyberDome setup menus

Clear Memory / Return to Factory Defaults

```
      CLEAR MEMORY
    -- SITE 0000 --

CLEAR SETUP          <0>
CLEAR PRESETS/TOURS  <1>
CLEAR TITLES/AREAS   <2>


ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Restore setup features, presets, or titles to factory default settings. Previously stored settings in the camera's nonvolatile memory will be erased.

Press ***0***, ***1***, or ***2*** to advance the display to clear the memory for the indicated feature.

Note: Depending on the camera model, option <2> displays either "Clear Titles," or "Clear Titles/Areas"

```
      CLEAR MEMORY
    -- SITE 0000 --

ARE YOU SURE?

NO                   <0>
YES                  <3>

ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Confirm the restoration of factory defaults for the feature chosen on the previous menu.

Press ***0*** to keep the current settings.

Press ***3*** to delete the current settings and reload factory default settings. "PLEASE WAIT" displays while the settings are reset.

After either selection, the main Clear Memory menu displays.

Note: If you chose CLEAR SETUP, and want to view the factory default settings for your camera model, then press ***alarm*** at this confirmation menu.

Set Autopan Speed

```
     AUTOPAN SPEED
    -- SITE 0000 --
PRESS ← OR → TO TEST

SLOW                 <0>
MEDIUM               <1>
FAST                 <2>

ENTER SELECTION:1
<ALARM>-HLP <SEQ>-NEXT
```

Select the speed at which the camera autopans.

Use the joystick (or the arrow keys) to test the three speed settings: slow, medium, and fast.

Table 1. CyberDome setup menus (continued)

Set Auto Return Mode

```
      AUTO RETURN
    -- SITE 0000 --

DISABLE              <0>
INACTIVITY→TOUR      <1>
INACTIVITY→HOME      <2>
INACTIVITY→AUTO      <3>

ENTER SELECTION:0
<ALARM>-HLP <SEQ>-NEXT
```

Set the camera to automatically return after a period of inactivity to a preprogrammed tour, "home" position, or to autopan mode.

To auto return to a tour press ***1***, a home position press ***2***, or to autopan press ***3***.

To disable the auto return feature, press ***0***.

Note: The "home" position is defined as preset 0. The "tour" position is defined as the last tour operated.

```
 TIME BEFORE RETURNING
    -- SITE 0000 --


INCREASE             <↑>
DECREASE             <↓>


ENTER TIME: 05m 00s
<ALARM>-HLP <SEQ>-NEXT
```

Set the period of inactivity (return time) referenced in the Auto Return menu.

Use the joystick (or arrow keys) to increase or decrease the return time in 15-second increments up to 5 minutes, and then by 1-minute increments up to 60 minutes.

The minimum return time is 15 seconds.

The maximum return time is 60 minutes.

Set Azimuth Indicator

```
   AZIMUTH INDICATOR
    -- SITE 0000 --


DISABLED             <0>
ENABLED              <1>
SET NORTH          <SET>

ENTER SELECTION:0
<ALARM>-HLP <SEQ>-NEXT
```

Set the azimuth indicator, which enables a direction indicator to be displayed on the monitor screen.

To enable this feature, press ***1***. To calibrate the indicator, point the camera north and press the ***set*** key. "NORTH SETTING SAVED" flashes briefly on the screen to confirm the setting.

To disable this feature, press ***0***.

Note: The azimuth indicator is not available for all camera models.

Table 1. CyberDome setup menus (continued)

Adjust Day/Night Switch Level

```
 DAY/NIGHT SWITCH LEVEL
     -- SITE 0000 --
SWITCH LEVEL CHOICES:
  0: MANUAL SWITCHOVER
1-4: LIGHTER THAN DUSK
  5: DUSK/DAWN
6-9: DARKER THAN DUSK

ENTER LEVEL <1-9>:
<ALARM>-HLP <SEQ>-NEXT
```

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

Select ***0*** to manually activate the switch. If this option is selected, contact the factory for proper keypad setup.

Note: The day/night switch is not available for all camera models.

Adjust Electronic Zoom Setting

```
     ELECTRONIC ZOOM
     -- SITE 0000 --


 1X                  <1>
 4X                  <2>
12X                  <3>

ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Set the electronic zoom on the camera. The factory default setting is 4X.

To test each zoom setting, press ***1***, ***2***, or ***3***, and then press the ***zoom in*** or ***zoom out*** key (***+ zoom –*** key for the KTD-405).

Note: The number of electronic zoom settings available varies among camera models.

Adjust Exposure Control Setting

```
    EXPOSURE CONTROL
     -- SITE 0000 --

AUTO IRIS           <0>
MANUAL IRIS         <1>
MAN/RETURN TO AUTO  <2>


ENTER SELECTION:2
<ALARM>-HLP <SEQ>-NEXT
```

Set the method the camera uses to adjust to different light levels.

Press ***0*** to enable the camera to automatically adjust to different light levels. The ***iris open*** key (***+ iris*** key for the KTD-405) toggles the electronic shutter, and the ***iris close*** key (***iris –*** key for the KTD-405) toggles backlight compensation for image enhancement.

Press ***1*** to allow manual control of the iris using the ***iris open*** and ***iris close*** keys (***+ iris –*** key for the KTD-405).

Press ***2*** to allow manual control of the iris after it returns to auto mode upon pan/tilt movement.

Note: Exposure control is not available for all camera models.

Table 1. CyberDome setup menus (continued)

Set Image Stabilizer Mode

```
    IMAGE STABILIZER
     -- SITE 0000 --

ON                    <1>
OFF                   <2>
MANUAL                <3>


ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

The image stabilizer mode compensates for slight unsteadiness or bouncing in the camera's movements.

Press ***1*** to turn on the image stabilizer.

Press ***2*** to turn off the image stabilizer.

Press ***3*** to allow manual activation of the image stabilizer. Contact technical support for proper keypad setup.

Note: Image stabilization is not available for all camera models.

Adjust Lens Initialization Duration

```
  LENS INITIALIZATION

    -- SITE 0000 --
    MANUAL ONLY <1>
    4   HOURS   <2>
    8   HOURS   <3>
    16 HOURS    <4>
    24 HOURS    <5>

ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Set the duration between camera lens initializations.

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.

Press ***1*** to initialize the lens manually.

Press ***2 – 5*** to set the duration between automatic lens initializations.

Note: Lens initialization is not available for all camera models.

Adjust Preset Speed

```
     PRESET SPEED
    -- SITE 0000 --


NORMAL SPEED          <0>
FAST SPEED            <1>


ENTER SELECTION:1
<ALARM>-HLP <SEQ>-NEXT
```

Set the speed at which the camera travels between presets. This setting is used when calling up presets manually or in a tour.

Table 1. CyberDome setup menus (continued)

Enable or Disable Proportional Speed and Quik Spin	
PROPORTIONAL SPEED -- SITE 0000 -- DISABLE <0> ENABLE <1> ENTER SELECTION:0 <ALARM>-HLP <SEQ>-NEXT	The proportional speed feature decreases the pan/tilt speed of the camera to provide better tracking when the camera switches to digital zoom. This helps reduce pan/tilt overshoot when zooming in on objects far from the camera. Press ***0*** to disable proportional speed. Press ***1*** to display the Feature Enable menu.
QUIK SPIN -- SITE 0000 -- DISABLE <0> ENABLE <1> ENTER SELECTION:0 <ALARM>-HLP <SEQ>-NEXT	Quik Spin automatically rotates the camera 180° when the bottom tilt limit is reached. This feature enables tracking of a target passing directly under the camera. Press ***0*** to disable Quik Spin. Press ***1*** to display the Feature Enable menu.
FEATURE ENABLE -- SITE 0000 -- CALL TECH SUPPORT TO ENABLE QUICK SPIN AND PROPORTIONAL SPEED. <ALARM>-HLP <SEQ>-NEXT	Because of licensing agreements, you must register prior to enabling Quik Spin and Proportional Speed. Register online at http://www.kalatel.com/cyberdomecode or call Technical Support.

Table 1. CyberDome setup menus (continued)

Adjust Shutter Speed

Note: Shutter speed adjustment is not available for all camera models.

NTSC screen

```
     SHUTTER SPEED
    -- SITE 0000 --
1/1000s              <0>
1/250s               <1>
1/60s   <NORMAL>     <2>
1/15s                <3>
1/8s                 <4>
1/4s    <DARK>       <5>
ENTER SELECTION:2
<ALARM>-HLP <SEQ>-NEXT
```

PAL Screen

```
     SHUTTER SPEED
    -- SITE 0000 --
1/1000s              <0>
1/215s               <1>
1/50s   <NORMAL>     <2>
1/12s                <3>
1/6s                 <4>
1/3s    <DARK>       <5>
ENTER SELECTION:2
<ALARM>-HLP <SEQ>-NEXT
```

Press the number that corresponds with the desired speed to set the shutter speed.

During pan/tilt operation, shutter speed is 1/60 of a second. In low or bright light, shutter speed can be adjusted to enhance the video image while the camera is in a stationary position.

Enable or Disable Site Number Display

```
  SITE NUMBER DISPLAY
    -- SITE 0000 --


DISABLE              <0>
ENABLE               <1>


ENTER SELECTION:0
<ALARM>-HLP <SEQ>-NEXT
```

Enable or disable the display of the camera site number in the upper left-hand corner of the monitor screen.

Press ***0*** to disable site number display.

Press ***1*** to enable site number display.

Table 1. CyberDome setup menus (continued)

Set Synchronization Mode

```
     SYNCHRONIZATION
     -- SITE 0000 --


LINE LOCK              <0>
INTERNAL 2:1           <1>


ENTER SELECTION:1
<ALARM>-HLP <SEQ>-NEXT
```

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

Press ***0*** to select line lock and advance to the Vertical Phase Adjust menu.

Press ***1*** to set the video signal to the camera's internal crystal.

```
  VERTICAL PHASE ADJUST
     -- SITE 0000 --

FORWARD                <↑>
BACKWARD               <↓>

NOTE: ADJUSTING PHASE
REQUIRES OSCILLOSCOPE
OR KTS-56
<ALARM>-HLP <SEQ>-NEXT
```

When the camera is in line lock mode, you can use this menu to adjust the vertical phase of the camera's video signal with that of another camera. An oscilloscope or KTS-56 V-Phase adjustment tool can assist with this process.

Use the joystick (or the arrow keys) to adjust the vertical phase.

Adjust White Balance

Note: Some camera models do not have the white balance menu.

Note: Some camera models do not have the DEFAULT option.

```
      WHITE BALANCE
     -- SITE 0000 --

DEFAULT                <0>
ATW                    <1>
INDOOR                 <2>
OUTDOOR                <3>
MANUAL                 <4>
ENTER SELECTION:0
<ALARM>-HLP <SEQ>-NEXT
```

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

Press ***0*** for a static, default setting; ***1*** for auto-tracing (white balance is adjusted while the image changes); ***2*** for a static indoor setting; ***3*** for a static outdoor setting; or ***4*** to make manual adjustments (displays the Manual White Balance adjust menu).

```
   MANUAL WBAL ADJUST
     -- SITE 0000 --

BLUE                 <↑ ↓>
......|..............
RED                  <← →>
...........|.........


<ALARM>-HLP <SEQ>-NEXT
```

Use the joystick (or arrow keys) to manually adjust the white balance to the desired setting.

Up and down adjust the blue level in the picture.

Left and right adjust the red level in the picture.

4 PROGRAMMING PRESET POSITIONS AND AREAS

CyberDome cameras can store up to 32 (numbered 00 – 31) or 64 (numbered 00 – 63) preset positions, depending on the camera model. To enter preset positions, perform the following.

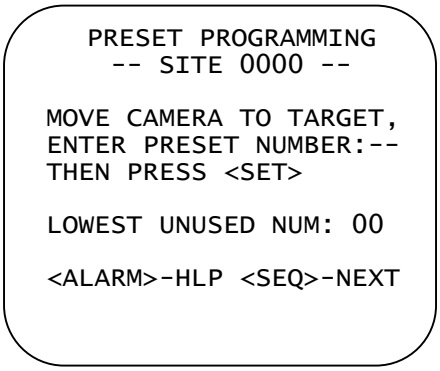

Figure 17. Preset Programming menu

1) Navigate to the Program Select menu (Figure 16).

2) Press ***2***. The Preset Programming menu (Figure 17) displays.

3) Move the camera to the desired position.

4) Enter a two-digit number to indicate the preset position (00 – 63 or 00 – 31). 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.

5) Press the ***set*** key. A message displays for 2 seconds to confirm that the preset position has been stored.

6) Repeat steps 2 through 4 for all additional preset positions to be stored.

7) Press ***seq*** to return to the Program Select menu (Figure 16).

Note: If you are going to reprogram a large number of existing presets, clearing those presets stored in memory is recommended.

4.1 PRESET TITLE ASSIGNMENT AND EDITING

To assign on-screen titles for the first 16 preset positions (00 – 15) perform the following.

1) Navigate to the Program Select menu.

2) Press ***3.*** The Edit Titles menu (Figure 18) displays.

Note: For some camera models, the first menu to appear is Preset Titles (Figure 19).

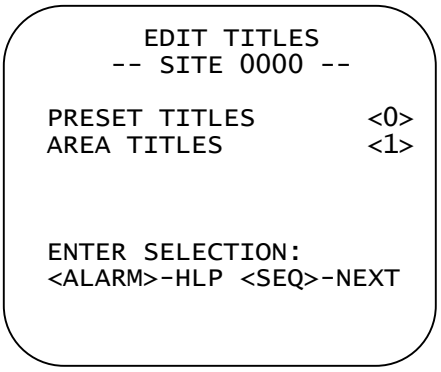

Figure 18. Edit Titles menu

3) Press ***0***. The Preset Titles menu (Figure 19) displays.

4) Enter the preset number (00 – 15) of the preset title to be edited.

5) The title entry menu (Figure 20) displays.

6) The display location for the title can be moved up and down on the screen. To set the location, confirm that the cursor (arrow) is in the far left position (under the left caret). Use the joystick (or arrow keys) to move the position of the title up and down. (The title cannot be moved from left to right.)

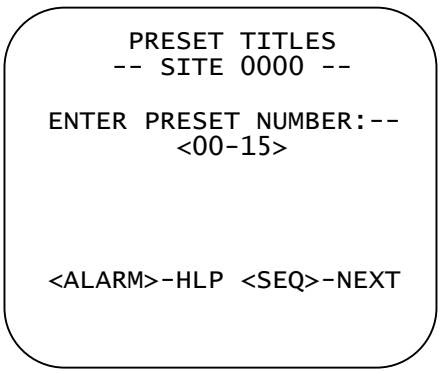

Figure 19. Preset Titles menu

7) To enter or edit the title move the cursor to the right (inside the carets). Use the joystick (or arrow keys) to scroll to the desired alphanumeric character.

8) When the title is set, press ***seq*** to return to Preset Titles (Figure 19).

9) Press ***seq*** once more to return to Edit Titles (Figure 18) or Program Select menu (Figure 16), depending on your camera model.

Figure 20. Title entry menu

4.2 PROGRAMMING TITLED AREAS

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

To program a titled area, perform the following.

1) Navigate to the Edit Titles menu (Figure 18).

2) Press ***1***. The Assigning Area Titles menu (Figure 21) displays.

3) Use the keypad to enter the number of the area to be titled and programmed. The second Assigning Area Titles menu (Figure 22) displays.

4) To define the boundaries of an area, use the joystick (or arrow keys) to pan/tilt the camera to the upper left corner of the desired area.

5) Press the ***clear*** key. Three stars display in the upper left corner of the screen to confirm the entry.

6) Use the joystick (or arrow keys) to move the camera to the lower right corner of the desired area.

7) Press the ***set*** key.

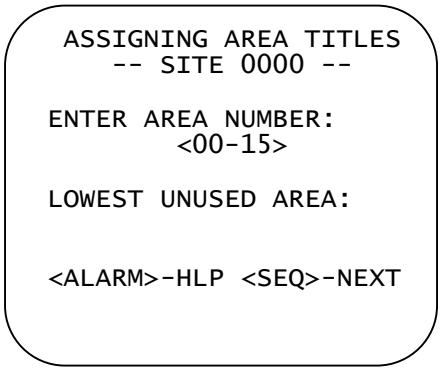

Figure 21. Assigning Area Titles menu

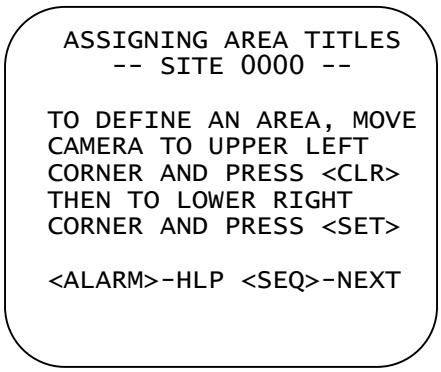

Figure 22. Assigning Area Titles menu (continued)

The title entry menu (Figure 20) displays. To assign and edit area titles, perform the following.

1) Confirm that the cursor (arrow) is under the left caret.

2) To move the display location for the title up or down on the screen, move the joystick up and down (or use the arrow keys). (The title cannot be moved from left to right.)

3) To enter or edit the title move the cursor to the right (inside the carets).

4) Move the joystick up and down (or use the arrow keys) to scroll to the desired alphanumeric character.

5) Move the joystick right and left (or use the arrow keys) to move to the next character or edit the previous character.

6) When the title is complete, press ***seq*** to return to the Assigning Area Titles menu (Figure 21 and Figure 22).

7) Press ***seq*** to return to the Edit Titles menu (Figure 18)

8) Press ***seq*** to return to the Program Select menu (Figure 16).

4.3 VIDEO/PRIVACY BLANKING

When programming areas, it is possible to define an area that should not be shown on the monitor(s) for privacy or security reasons. When the camera enters that specified area, the assigned title appears on the monitor, but the monitor screen is blanked out. To activate this option, begin the title of the area with a question mark (?).

5 REVIEWING CAMERA SETTINGS

To review the current setup settings for your camera, press ***4*** ("Current Status") from the Program Select menu (Figure 16). Settings cannot be entered or changed from the Setup Status menus.

The typical Setup Status menus are shown in Figure 23 and Figure 24.

Note: For inactive features for a given camera model, that feature status reads as *N/A*.

- To page up and down through the menus, move the joystick up or down (or use the arrow keys).
- To return to the Program Select menu, press ***seq***.

CyberDome cameras with preset and area features have status menus that show programmed presets (Figure 25) and programmed areas (Figure 26).

Note: Some cameras include only the menu screens that show programmed presets (Figure 25), not areas.

Note: In Figure 25 and Figure 26 "TITLE" indicates that a preset or area is titled (the actual text programmed displays on the screen). "X" indicates that a preset or area is programmed.

```
SETUP STATUS CAM: 0
AUTOPAN SPEED:      MED
AUTO RETURN:       ON-T
AZIMUTH INDICATOR:  OFF
DAY/NIGHT LEVEL:      5
ELECTRONIC ZOOM:     4x
EXPOSURE CONTROL:    AI
IMAGE STABILIZER:   N/A
LENS INITIALIZTN:   MAN
```

Figure 23. Setup Status menu

```
SETUP STATUS CAM: 0

PRESETS FAST:       OFF
PROP. SPEED:         ON
QUIK SPIN:          OFF
SHUTTER SPEED:     1/60
SITE NO. DISPLAY:   OFF
SYNCHRONIZATION:    INT
WHITE BALANCE:     AUTO

↑↓ -PG UP/DN <SEQ>-NEXT
```

Figure 24. Setup Status menu (continued)

```
PRESET STATUS CAM: 0
00 TITLE              X
01                    X
02 TITLE              X
03
04
05
06 TITLE              X
07
↑↓ -PG UP/DN <SEQ>-NEXT
```

Figure 25. Preset Status menu

```
AREA STATUS CAM: 0
00
01 TITLE              X
02 TITLE              X
03
04                    X
05                    X
06
07 TITLE              X
↑↓ -PG UP/DN <SEQ>-NEXT
```

Figure 26. Area Status menu

6 PROGRAMMING TOURS

Tours 1 and 2 in the PTZ programming menu are shadow tours. Tours 3 and 4 in the PTZ programming menu are preset tours.

6.1 SHADOWTOURS

Most CyberDome cameras have ShadowTour capability. A ShadowTour is a tour that the camera "learns" by recording up to 4 minutes of manual 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.

```
  PTZ TOUR PROGRAMMING
     -- SITE 0000 --
TOUR 1 Shadow Tour  <1>
TOUR 2 Shadow Tour  <2>
TOUR 3              <3>
TOUR 4              <4>


ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Figure 27. PTZ Tour Programming menu

6.1.1 PROGRAMMING A NEW SHADOWTOUR

1) Press ***5*** from the Program Select menu (Figure 16). The first menu to display is the PTZ Tour Programming menu (Figure 27).

Note: For some camera models, the first menu to display is the ShadowTour menu (Figure 28). If this is the case for your camera, proceed to step 3.

2) Press ***1*** or ***2*** from the PTZ Tour Programming menu, depending on which tour you are programming. The ShadowTour menu (Figure 28) displays.

3) Press ***0*** to program a new tour. The ShadowTour program menu (Figure 29) displays.

4) Press the ***set*** key to start the tour timer.

5) Using the joystick (or arrow keys) and the zoom keys, move the camera to the desired locations for the shadow tour. The maximum tour time is 4 minutes.

6) Press the ***set*** key to finish the tour.

Press ***seq*** to display the PTZ Tour Programming menu (Figure 27).

```
TOUR 1     Shadow Tour
    -- SITE 0000 --

NEW TOUR            <0>
EDIT TOUR           <1>
PLAY                <2>


ENTER SELECTION:
<ALARM>-HLP <SEQ>-NEXT
```

Figure 28. ShadowTour menu

```
TOUR 1     Shadow Tour
    -- SITE 0000 --
MAX TOUR TIME: 4 MINS.
1) PRESS <SET> KEY TO
   START TIMER
2) MOVE CAMERA THROUGH
   DESIRED TOUR
3) PRESS <SET> KEY TO
   STOP TIMER
<ALARM>-HLP <SEQ>-NEXT
```

Figure 29. ShadowTour program menu

6.1.2 REVIEWING AN EXISTING SHADOWTOUR

Return to the PTZ Tour Programming menu (Figure 27), and perform the following steps.

1) Press ***1*** or ***2*** depending on which tour you want to review. The ShadowTour menu (Figure 28) displays.

2) Press ***2***. The selected ShadowTour plays.

Press the ***seq*** key to return to the ShadowTour menu (Figure 28) at any time during the tour.

6.1.3 EDITING A PREVIOUSLY PROGRAMMED SHADOWTOUR

Note: If you are going to edit several tours, clearing those tours stored in memory and programming new tours is recommended.

Return to the PTZ Tour Programming menu (Figure 27), and perform the following steps.

1) Press ***1*** and then press the ***set*** key. The currently stored ShadowTour begins to play. Use the joystick (or arrow keys) to edit the tour at any point.

Note: When the first edit is made, the entire previously-programmed tour from that point forward is deleted and replaced with the new tour edits.

2) When you finish editing, press ***set*** to return to the ShadowTour menu (Figure 28).

Press ***seq*** to return to the PTZ Tour Programming menu (Figure 27) or the Program Select menu (Figure 16), depending on the camera model.

6.2 PRESET TOURS

Most CyberDome 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.

6.2.1 PROGRAMMING PRESET TOURS

Each tour consists of a string of up to 16 steps, or presets, which are programmed by the user.

1) From the PTZ Tour Programming menu (Figure 27), select the tour to be edited. The Tour Programming menus display (Figure 30 and Figure 31).

2) Navigate through preset, speed, and dwell time using the joystick (or arrow keys).

3) For each step programmed, the following information must be entered:

- The preset number (0 – 63).
- The dwell time at each step (1 – 31 seconds). The default dwell time is 2 seconds.
- The speed at which the camera moves between presets. There are four speed settings: 0, 1, 2 (slow, medium, fast–as per autopan), and 3 (maximum speed). The default speed is 3. If 0, 1, or 2 are selected, press the ***set*** key while in the speed column to cause a dot to appear by the number (see the speed setting of step 01 in Figure 30). This option overrides the auto zoom and maintains the camera's zoom position while traveling to the next preset position.

```
   TOUR 3 PROGRAMMING
     -- SITE 0000 --
STEP  PRESET  SPEED DW
01    >00       2·  05
02     01       3   08
03     02       2   10
04     03       2   05
05     04       3   05
06     05       2   10
<ALARM>-HLP <SEQ>-NEXT
```

Figure 30. Tour Programming menu

```
   TOUR 3 PROGRAMMING
     -- SITE 0000 --
STEP  PRESET  SPEED DW
11     --       -   05
12     --       -   08
13     --       -   10
14     --       -   05
15     --       -   05
16     22       3   12→
<ALARM>-HLP <SEQ>-NEXT
```

Figure 31. Tour Programming menu (cont.)

4) To clear information from any step, press the ***clear*** key.

5) To finish programming a tour, press the ***seq*** key. The PTZ Tour Programming menu (Figure 27) displays.

6.2.2 LINKING PRESET TOURS

Tours 3 and 4 (preset tours) can be linked together, so that when tour 3 ends, tour 4 begins immediately.

Note: Tours 1 and 2 (ShadowTours) cannot be linked.

1) From the PTZ Tour Programming menu (Figure 27), press ***3*** to enter the Tour 3 Programming menu (Figures 30 and 31).

2) Use the joystick (or arrow keys) to scroll to line 16.

Note: For a tour to be linked, a preset must be entered for line 16.

3) Press the ***set*** key anywhere on that line except the speed column. An arrow at the end of the line indicates that the tours are linked (see line 16 of Figure 31).

4) To unlink a tour, go to line 16 and press the ***set*** key. The arrow indicating a link no longer displays.

5) Press the ***seq*** key twice to return to the Program Select menu (Figure 16).

7 EXITING PROGRAMMING MODE

To exit CyberDome from any menu display in programming mode, press and hold the ***seq*** key until the keypad beeps.

8 SETTING ELECTRONIC AUTOPAN LIMITS AND ACTIVATING AUTOPAN

When in autopan mode, the camera repeats a back and forth motion. If you are using a KTD-405 to program your system, perform the instructions in section 8.1 to program the autopan motion. If you are using a KTD-404/304 or KTD-400/300, skip to section 8.2.

8.1 USING A KTD-405

To set the limit for the left turn-around point as well as the tilt and zoom positions for the autopan, perform the following.

1) Position the camera at the desired left limit.

2) Tilt and zoom the camera into the desired position.

3) Press ***store***.

Note: Do not attempt to enter a preset number. The preset number 62 is reserved for the left autopan limit and is automatically entered when you perform step 5.

4) Press ◀II.

5) Press ***store*** again. The Store Preset Number displays on the keypad.

To set the limit for the right autopan, perform the following procedure.

1) Position the camera at the desired right limit and press ***store***.

Note: Do not attempt to enter a preset number. The preset number 63 is reserved for the right autopan limit and is automatically entered when you perform step 3.

2) Press II▶.

3) Press ***store*** again. The Store Preset Number displays on the keypad.

To activate the autopan, press and hold ***tour*** until the keypad beeps. The camera initiates the pan motion.

8.2 USING A KTD-404/304 OR KTD-400/300

1) Position the camera at the desired left limit.

2) Tilt and zoom the camera into the desired position.

3) Move the joystick to the left while holding down the ***zoom in*** and ***zoom out*** keys, or press the ← key (depending on the type of keypad being used).

4) Position the camera at the desired right limit.

5) Move the joystick to the right while holding down the ***zoom in*** and ***zoom out*** keys, or press the → key (depending on the type of keypad being used).

To activate autopan, push ***autopan***. The camera initiates the pan motion.

BEFORE YOU CALL TECHNICAL SUPPORT

Please review this chart of common problems before you call technical support. Thank you.

Problem	Probable Cause	Solution
An area I want to blank from viewing still appears on the monitor.	Failure to create a properly titled area.	Define the “area” that encompasses the space you do not want to appear on the monitor. When defining and titling the area, begin the title of the area with a question mark (?). (See sections 4.2 and 4.3 for more information on programming titled areas and video/privacy blanking.) **Note:** Area Titling and Video/Privacy Blanking are not available for all camera models.
Reprogrammed presets, tours, or autopans do not function as programmed.	Previously programmed information may affect operation.	Clear the memory for the feature you are reprogramming. Program the new settings. (See section 3, Table 1, for information on the Clear Settings menu.)

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