

SpeedDome® Ultra 8 Camera Dome Configuration Utility

Quick Reference Guide

If you need assistance...

Contact your Sales or Technical Support Representative.

What is the Dome Configuration Utility?

The **Dome Configuration Utility** is used to set features for your camera dome using a text overlay menu. This menu is accessed via 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 or switching system.

To start the utility:

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

1

DOMES CONFIGURATION MENU

PAN/TILT/ZOOM/SYNC OPTS

CAMERA FUNCTIONS

ALARMS/AREAS/HOME/PRESETS/PZ

ON-SCREEN TEXT DISPLAY

LANGUAGE / PASSWORD

DOMES INFORMATION

RESET TO FACTORY SETTINGS

QUIT WITHOUT SAVING

EXIT AND SAVE CHANGES

Screen

2

3

4

5

6

8

Note: If Password Protection is enabled, the **Enter Password** screen (Screen 7) appears first.

Choose an option on this screen to change settings. Table 1 describes the available commands.

IMPORTANT: Commands may differ depending on your operating environment. These commands apply to SensorNet, RS-422, and Manchester.

Table 1. SensorNet, RS-422, and Manchester commands

If you want to...	Use...
Move the Highlight Bar.	Pan/Tilt
Select the highlighted item.	Focus
Increase value of selected setting, or display next choice. Move cursor to right during naming.	Zoom In (Zoom Tele)
Decrease value of selected setting, or display previous choice. Move cursor to left during naming.	Zoom Out (Zoom Wide)
Save changes and exit from any screen.	Iris Close, then Focus

Pan, Tilt, Zoom and Synchronization Options

2

PAN/TILT/ZOOM/SYNC OPTS

PROPORTIONAL FLIP OFF

1ST ZOOM STOP X 35

MAX TOTAL ZOOM X 420

LINE LOCK OFF

FREEZE FRAME OFF

RETURN TO AUTO

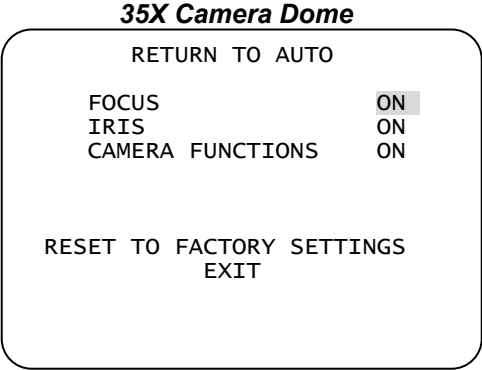
RESET TO FACTORY SETTINGS

EXIT

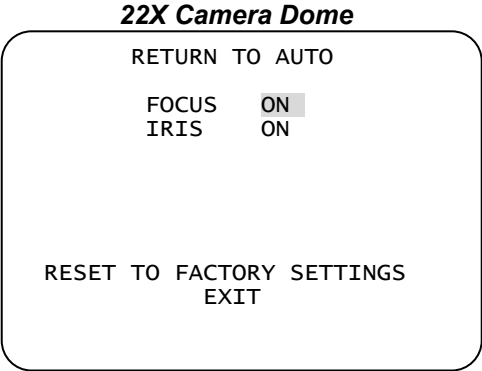
- The default 1st Zoom Stop setting is **52X** for 35X camera domes and **33X** for 22X camera domes.
- The default Max Total Zoom setting is **140X** for 35X camera domes and **88X** for 22X camera domes.
- Maximum total zoom settings: Vary depending on the initial zoom position.
- The default Line Lock setting is **OFF**.
- The default Freeze Frame setting is **OFF**.
- For Return to Auto settings, go to **Return to Auto Settings** (Screen 2.1).

Return to Auto Settings

2.1



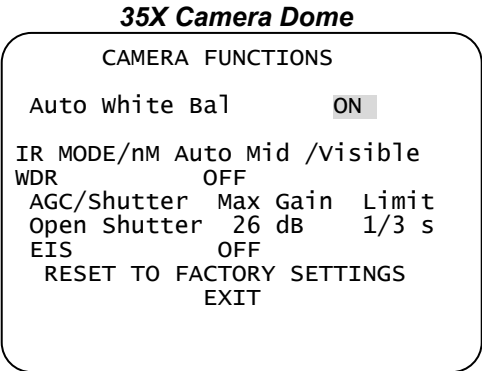
- The default Focus setting is **ON**.
- The default Iris setting is **ON**.
- The default Camera Functions setting is **ON**. Camera features include WDR, EIS, and IR Mode.



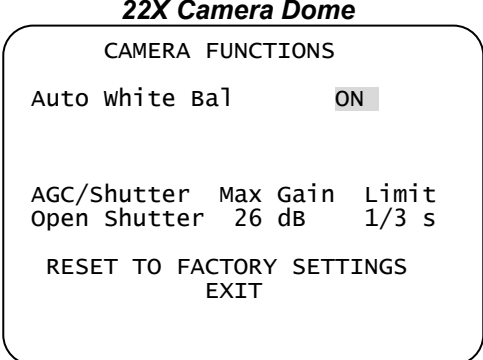
The 22X camera dome does not support the EIS, WDR, and IR Mode features.

Camera Functions

3



Some settings appear only when the associated setting is active. Use Table 2 and Table 3 to identify which settings apply.



The 22X camera dome does not support the IR Mode, WDR, and EIS features.

Auto White Balance and Red/Blue Values

The **Auto White Bal** setting determines if the Red and Blue values can be changed.

Table 2. Auto White Balance settings

Auto White Bal	Red	Blue
ON	N/A	N/A
OFF	Yes	Yes

AGC/Shutter Settings

The **AGC/Shutter** setting determines if the Max Gain and Limit settings apply.

Note: Table 3 applies to both the 35X and 22X camera dome.

Table 3. AGC/Shutter settings

AGC/Shutter	Max Gain	Limit
Open Shutter	Yes	Yes
AGC ON	Yes	N/A
AGC OFF	N/A	N/A

Alarms, Areas, Home, Presets and Privacy Zones

4

ALARMS/AREAS/HOME/PRESETS/PZ

SET ALARM ACTIONS
SET ALARM STATES
SET HOME POSITION
SET NORTH POSITION
AREA BOUNDARIES
PRIVACY ZONES
PRESETS
SCAN LIMITS
EXIT

This screen provides links to lower level screens. See the following screens:

- **Set Alarm Actions** (Screen 4.1)
- **Set Alarm States** (Screen 4.2)
- **Set Home Position** (Screen 4.3)
- **Set North Position** (Screen 4.4)
- **Area Boundaries** (Screen 4.5)
- **Privacy Zones** (Screen 4.6)
- **Presets: Select Preset to Program** (Screen 4.7)
- **Scan Limits** (Screen 4.8)

Set Alarm Actions

4.1

SET ALARM ACTIONS

INPUT	ACTION
1	NO ACTION
2	NO ACTION
3	NO ACTION
4	NO ACTION

SEND INPUTS TO HOST? YES

EXIT

- **No Action** is the default setting for all inputs. **Preset 1-96** or **Pattern 1-16** may be assigned as the alarm action.

Set Alarm States

4.2

SET ALARM STATES
INTERNAL ALARMS
INPUT NORMAL STATE

1	OPEN
2	OPEN
3	OPEN
4	OPEN

EXIT

- **Open** is the default setting for all inputs.

Set Home Position

4.3

SET HOME POSITION

ACTION PRESET 1

RETURN TIME MINS 10

EXIT

- **No Action** is the default setting for the home position. **Preset 1-96** or **Pattern 1-3** may be assigned to the home position.
- Other actions are **Output**, **Sequence**, **Smooth Scan**, **Stepped Scan**, or **Random Scan**.

Set North Position

4.4

SET NORTH POSITION

PAN to new north position

ZOOM to mark north position
FOCUS quits w/o changing

- The default **North Position** is 0-degrees Pan/Tilt.

Area Boundaries

4.5

AREA BOUNDARIES

PAN to START OF BOUND **1**

PAN RIGHT ONLY

ZOOM to mark BOUNDARY
FOCUS quits w/o changing

Up to **16** areas may be programmed. These areas are separate from areas that may be available through your switcher.

Privacy Zones

4.6

PRIVACY ZONES

ADD PRIVACY ZONE
DELETE SPECIFIC ZONES
DELETE ALL ZONES

HIDE ALL ZONES NO

EXIT

In addition to hiding all programmed privacy zones, this screen provides links to lower level screens. See the following screens:

- **Add Privacy Zones** (Screen 4.6a)
- **Delete Privacy Zone** (Screen 4.6b)
- **Delete All Zones** (Screen 4.6c)

Add Privacy Zones

4.6a

NEW PRIVACY ZONE

Navigate →← corner **1**

ZOOM to mark corner
FOCUS to abandon zone

- Up to 8 Privacy Zones may be programmed.
- Three points must be selected to establish the Privacy Zone. The fourth point is automatically calculated.
- Use the Pan/Tilt control to position the arrows over the selection point. If arrows blink, this is not a valid selection area.
- Press **Zoom** to save the point.

Delete Privacy Zone

4.6b

Navigate →← to zone

ZOOM to delete zone
FOCUS quits w/o changing

- Arrows must be clearly positioned in zone to delete.
- Use the **Pan/Tilt** control to position the arrows over the zone. If arrows blink, this is not a valid selection area.
- Press **Zoom** to delete the selected zone.

Delete All Zones

4.6c

YOU ARE ABOUT TO DELETE
ALL PRIVACY ZONES

CANCEL
CONTINUE

This option permanently removes all programmed Privacy Zones. To temporarily hide the zones, use *Hide All Zones*. See **Privacy Zones** (Screen 4.6).

Select Preset to Program

4.7

```

SELECT PRESET TO PROGRAM

PRESET
NUMBER   PRESET NAME
  1       PRESET      1

MOTION DETECTION SETUP
SEQUENCE SETUP MENU
CAMERA FUNCTIONS
FOCUS FAR to program preset
EXIT
    
```

The number of presets available depends on your operating environment.

- If installed under SensorNet or RS-422, up to 96 presets are available.
- If installed under Manchester, up to 64 presets are available.

This screen provides links to lower-level screens. See the following screens:

- **Motion Detection Setup** (Screen 4.7a)
- **Sequence Setup Menu** (Screen 4.7c)
- **Program Presets** (Screen 4.7d)
- **Camera Functions** (Screen 3)
- The 22X camera dome does not support the Sequence Setup features.

Motion Detection Setup

4.7a

```

35X Camera Dome Only

MOTION DETECTION SETUP
  1

ZONE  SENS  ACTION
  1    0    NO ACTION

HIDE ALL ZONES          NO
DELETE ALL ZONES
UPDATE SENS AND ACTION
FOCUS FAR to prog zone
EXIT
    
```

Use this screen to create detection zones (1-8)

IMPORTANT: Motion Detection will not function under certain **Camera Functions** settings. Before programming, ensure the following:

- IR Mode is not set to **ON**
- WDR is not set to **ON**.

Press **Focus Far** to display the **Motion Detection Setup Sub-Menu** (Screen 4.7b)

Motion Detection Setup Sub-Menu

*Active zone position programming screen
35X Camera Dome Only*

4.7b

```

MOTION DETECTION SETUP

ZONE      1

Zone
Indicator → [Blue Square]

ESC/FOCUS=save+exit
    
```

Use the joystick to move the rectangular zone indicator to a desired location, and then press **Focus Far** to save and exit.

Sequence Setup Menu

4.7c

```

35X Camera Dome Only

SEQUENCE SETUP MENU
SEQUENCE NUMBER      1
STEP 1-4             DWELL TIME
STEP  PRESET  MIN  /  SEC
  1     0      0   /   0
  2     0      0   /   0
  3     0      0   /   0
  4     0      0   /   0

EXIT
    
```

Use this screen to create preset sequences.

Program Presets

4.7d

```

PRESETS

Position camera with PAN,
TILT, ZOOM and IRIS

FOCUS FAR to save and exit
EXIT
    
```

This screen also appears if a **Preset** is selected for the **Set Home Position** (Screen 4.3) and the selected preset has not been programmed.

Scan Limits

4.8

```
SCAN LIMITS
PAN to LEFT limit

ZOOM to mark BOUNDARY
Cancel RIGHT limit to Delete
CANCEL
```

```
SCAN LIMITS
PAN right to RIGHT limit

ZOOM to mark BOUNDARY
Cancel RIGHT limit to Delete
CANCEL
```

Scan Limits are used to set right and left areas of surveillance with compatible controllers. These scans may be activated using the **DirectSet Menu** (Screen 10).

- Use **Pan/Tilt** to adjust the dome's pointing direction.
- Press **Zoom** to select the left and right scan limits.
- Press **Focus** to cancel changes.
- Press **Focus** when setting right scan limit to delete the scan limits.

Note: While you can use Smooth, Stepped, and Random scans without setting the scan limits, programming the left and right scan limits enables you to more effectively use these scan capabilities.

On-Screen Text Display

5

```
ON-SCREEN TEXT DISPLAY
STATUS DISPLAY          ON
DISABLE ALL NAMES?     NO
DIAGNOSTICS DISPLAY    ON
DIRECTION INDICATOR    ON
PATTERN SELECT          OFF
NAME CONFIGURATION MENU
TEXT ATTRIBUTE OPTIONS

EXIT
```

In addition to the settings available, this screen provides links to lower level screens. See the following:

- **Name Configuration Menu** (Screen 5.1)
- **Text Attribute Options** (Screen 5.2)

Name Configuration Menu

5.1

```
NAME CONFIGURATION MENU
CAMERA NAME      OFF
AREA NAME        OFF
PRESET NAME      OFF
PATTERN NAME     OFF
ALARM NAME       ON

FOCUS FAR to program names
RESET PROGRAMMABLE NAMES
EXIT
```

- Use **Zoom** to change the display setting.
- Press **Focus** to start name programming for highlighted setting.
- If Camera is selected, **Name Programming** (Screen 5.1a) automatically appears. For others, **Select Name to Program** (Screen 5.1b) appears.

Name Programming

5.1a

```
NAME PROGRAMMING
NAME: ALARM 1

ABCDEFGHIJKLMNQRST
UVWXYZabcdefghijklmnopqrstu
vwxyz 0123456789/-

UNDO CHANGES AND QUIT
EXIT
```

- Names may contain up to 18 characters.
- Use **Pan/Tilt** to move the highlight around available characters. Press **Focus** to select highlighted character.
- **Zoom In** moves the highlight one space right in the name; **Zoom Out** moves the highlight left.

Select Name to Program

5.1b

```
SELECT NAME TO PROGRAM

NUMBER  CURRENT NAME
  1

FOCUS FAR to program names
EXIT
```

- Use **Zoom** to select the appropriate *Alarm*, *Area*, *Pattern*, or *Preset* number.
- Press **Focus** to start name programming.

Language Selection

6.1

```
LANGUAGE SELECTION

ENGLISH
SPANISH
FRENCH
GERMAN
ITALIAN
PORTUGUESE

EXIT
```

- Dome must reset for language setting to change.
- Programmed names do not change after setting the language. Only the default names change.

Text Attribute Options

5.2

```
TEXT ATTRIBUTE OPTIONS

CHARACTER OUTLINE  ON
TRANSLUCENT NAMES  4

EXIT
```

If *Privacy Zones* are displayed, **Translucent Names** is automatically disabled.

Set Password

6.2

```
SET PASSWORD
PASSWORD: *****

ABCDEFGHIJKLMNQRST
UVWXYZabcdefghijklmnop
opqrstuvwxyz 0123456
789/-

CONTINUE
CANCEL
```

- Passwords may contain up to 8 characters.
- See **Name Programming** (Screen 5.1a) for instructions on how to set passwords.

Language and Password

6

```
LANGUAGE / PASSWORD

LANGUAGE SELECTION
SET PASSWORD
PASSWORD PROTECTION OFF

EXIT
```

In addition to enabling password protection, this screen provides links to lower level screens. See the following screens:

- **Language Selection** (Screen 6.1)
- **Set Password** (Screen 6.2)

Enter Password

7

```
ENTER PASSWORD
PASSWORD: *****

ABCDEFGHIJKLMNQRST
UVWXYZabcdefghijklmnop
opqrstuvwxyz 0123456
789/-

CONTINUE
CANCEL
```

This screen only appears when **Password Protection** is enabled. The password must be successfully entered before the *Dome Configuration Menu* will appear.

See **Name Programming** (Screen 5.1a) for instructions on how to enter passwords.

Dome Information

8

Camera domes with Outdoor IO boards

```

DOME INFORMATION

  DOME MODEL
DOME STATISTICS
  INIT DOME
  CALIBRATION
BASE IO STATUS
BASE IO CONTROL

EXIT
  
```

Camera domes with Indoor IO boards

```

DOME INFORMATION

  DOME MODEL
DOME STATISTICS
  INIT DOME
  CALIBRATION

EXIT
  
```

Camera domes with legacy IO boards

```

DOME INFORMATION

  DOME MODEL
DOME STATISTICS
  INIT DOME
IO CONFIGURATION

EXIT
  
```

This screen provides links to lower level dome information screens. The choices are:

- Dome model information, select **Dome Model** (Screen 8.1 for all domes).
- Dome usage information, select **Dome Statistics** (Screen 8.2 for all domes).
- To clear dome user memory, select **Init Dome** (Screen 8.3 for all domes). When used with a legacy I/O board, **Init Dome** only clears memory in the dome.
- To calibrate domes when replacing or installing new domes, select **Calibration** (Screen 8.4 for outdoor and indoor domes).

- To configure a camera attached to a legacy IO board for either indoor or outdoor operation, select **IO Configuration** (Screen 8.5).
- IO board status information, select **Base IO Status** (Screen 8.6 for outdoor domes only).
- IO board control information, select **Base IO Control** (Screen 8.7 for outdoor domes only).

Dome Model

8.1

```

DOME MODEL

NAME:      ADSDU835D
Mnemonic   SDU8
Software Ver 0101-0150-0214
FPGA Ver 2006/10/31 15:58
Device Type 0150
Camera: 2003-0054-01 NTSC
SN 0000000001234567890
Manufacture Date 01212003

EXIT
  
```

This screen displays the dome model information.

Dome Statistics

8.2

```

DOME STATISTICS
PanStat  TiltStat  ZoomStat
R 000000D0 00000074 0000006C
L 000005E5 00000A5C 00000092
M 0000D8E9 00000F8A 0000019A
T 0000051E 0000050A 00000002
001 SENSORNET
Pwr/Run           Pwr/Run
O 002D389         W 00000000
P 0000002         U 00000000

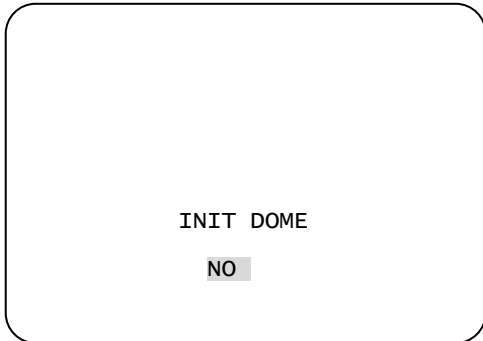
EXIT
  
```

This screen displays operating statistics for the dome. The information displayed represents the number of occurrences or time in seconds (displayed in hexadecimal format).

- R represents time moving **Right** in seconds.
- L represents time moving **Left** in seconds.
- M represents **Total Move Time** in seconds.
- T represents **Target Count**.
- O represents **Operating Time** in seconds.
- P represents **Power Failure Reset Count**.
- W represents **Watchdog Reset Count**.
- U represents **User Reset Count**.

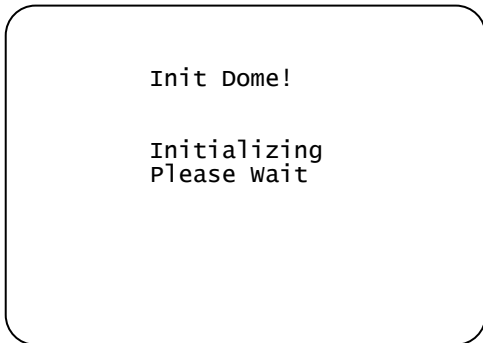
Init Dome

8.3



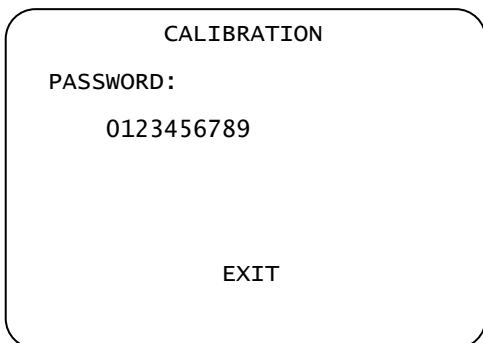
This screen allows you to clear the dome and the associated I/O flash in the dome base of all user-programmed options and returns the dome to factory defaults.

The following screen appears during the initialization process.



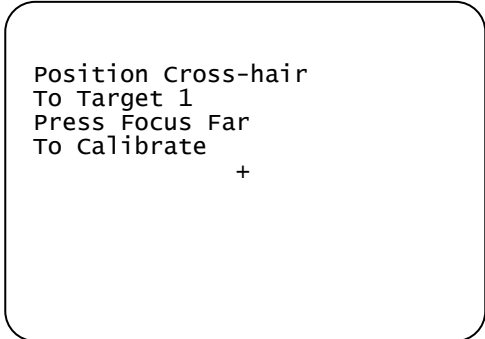
Calibration

8.4



- This screen allows you to enter a password (135246) to access the calibration screen shown below, which enables you to define a zero reference point (or target) from which all other camera targets will be referenced.

Note: The Calibration feature is applicable to the Outdoor Housing board, P/N 0312-2124-03, and the Indoor Housing board, P/N 0312-3006-01.

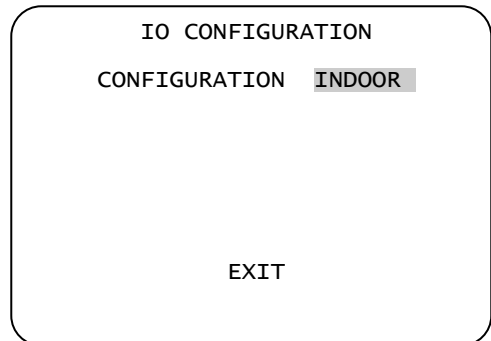


Position Cross-hair
To Target 1
Press Focus Far
To Calibrate
+

- Calibration is used only when replacing a dome in an existing base.
- The plus (+) sign in the middle of the screen is the crosshair used for calibration.

IO Configuration

8.5



This screen allows you to configure cameras attached to a legacy IO board for either indoor or outdoor operation.

- Indoor operation does not use dome heaters or blowers.
- Outdoor operation uses dome heaters and blowers. You must set this screen to **Outdoor** for the heaters and blowers to work.

Base IO Status

8.6

```
BASE IO STATUS
BASE App Version: 2.30
BASE Boot Version 2.22
Temp:           40.1 C
Humidity:       37 %
Blower 1:      ON
Blower 2:      ON
Alarm Bits:    00
```

EXIT

- This screen displays the base IO operating conditions and status.
- The status information is automatically updated as it changes.

Note: The Base IO Status feature is only applicable to the Outdoor Housing board, P/N 0312-2124-03.

Base IO Control

8.7

```
BASE IO CONTROL
Update App:  v2.30 => v2.30

Blower Control: AUTO ON
Heater Control: AUTO OFF
```

EXIT

- This screen displays the base IO firmware version, enables updating of the firmware, and enables blower and heater control.

Notes:

Each time you upload new code to the dome, be sure to update the IO base as well. If the number to the left of the arrow is lower than the number to the right, highlight this line to start the firmware upgrade.

The Base IO Control feature is only applicable to the Outdoor Housing board, P/N 0312-2124-03.

Dome Address Change

9

DOME ADDRESS CHANGED!!

```
UPDATE DOME DATA FROM BASE
CLEAR BASE DATA
```

When a dome powers up, it finds Pan/Tilt home, determines the network type, and then performs the following sequential tests:

- Checks if its own address has changed.
- Checks if its address matches the base IO address. If it does not, the **Dome Address Changed** screen appears to allow a change to be made.
- Verifies that its configuration data matches the configuration data stored in the base IO.

Note: Normally, you highlight **Clear Base Data** and press **Focus Far** from the keyboard. Invoking **Clear Base Data** clears all configuration data in the base IO. The other option, **Update Dome Data From Base**, should only be used when swapping identical dome models.

The screen shown below briefly appears during:

- The updating process.
- Verification when dome configuration data does not match configuration data stored in the base IO memory and indicates the dome is copying the IO base configuration data.

```
Restoring Dome Data
Names Buffer
TPB Buffer
```

The following screen briefly appears when base data is cleared. When base data is cleared, all presets, patterns, and other configurations stored in the base IO memory are deleted.

Updating IO Base Memory!
Please Wait!

Note: After verification is complete, the last screen that was displayed before the dome was powered down will reappear.

DirectSet Menu

10

35X Camera Dome

DirectSet Menu Screen 1 of 4

0 TOGGLE DIRECT SET MENU
1 DOME CONFIGURATION MENU
2 AUTO IRIS & AUTO FOCUS
3 FLIP
4 PEEL PATTERN
5 SET NORTH POSITION
6 LINE LOCK OFF
7 LINE LOCK ON
10 NIGHT MODE
FOCUS FAR=next page

DirectSet Menu Screen 2 of 4

11 DAY MODE
12 AUTO DAY/NIGHT MODE
13 WDR ON
14 WDR OFF
15 SMOOTH SCAN
16 STEPPED SCAN
17 RANDOM SCAN
20 DOME INFORMATION
48 EIS OFF
Use FOCUS to select page

DirectSet Menu Screen 3 of 4

49 EIS 5 Hz
50 EIS 10 Hz
51 SEQUENCE 1
52 SEQUENCE 2
53 SEQUENCE 3
54 SEQUENCE 4
55 SEQUENCE 5
56 SEQUENCE 6
57 SEQUENCE 7
Use FOCUS to select page

DirectSet Menu Screen 4 of 4

58 SEQUENCE 8
59 SEQUENCE 9
60 SEQUENCE 10
61 SEQUENCE 11
62 SEQUENCE 12
63 SEQUENCE 13
64 SEQUENCE 14
65 SEQUENCE 15
66 SEQUENCE 16
FOCUS NEAR=previous page

22X Camera Dome

DirectSet Menu Screen 1 of 4

0 TOGGLE DIRECT SET MENU
1 DOME CONFIG MENU
2 AUTO IRIS & AUTO FOCUS
3 FLIP
4 PEEL PATTERN
5 SET NORTH POSITION
6 LINE LOCK OFF
7 LINE LOCK ON
15 SMOOTH SCAN
FOCUS FAR=next page

DirectSet Menu Screen 2 of 4

16 STEPPED SCAN
17 RANDOM SCAN
20 DOME INFORMATION
51 SEQUENCE 1
52 SEQUENCE 2
53 SEQUENCE 3
54 SEQUENCE 4
55 SEQUENCE 5
56 SEQUENCE 6
Use FOCUS to select page

DirectSet Menu Screen 3 of 4

57 SEQUENCE 7
58 SEQUENCE 8
59 SEQUENCE 9
60 SEQUENCE 10
61 SEQUENCE 11
62 SEQUENCE 12
63 SEQUENCE 13
64 SEQUENCE 14
65 SEQUENCE 15
Use FOCUS to select page

DirectSet Menu Screen 4 of 4

66 SEQUENCE 16

The **DirectSet Menu** provides easy access to dome features and menus with compatible controllers.

- Press the **DirectSet** or **Info** button (varies by controller) to display the menu.
- Press **Focus Far** and **Focus Near** to scroll between the menu pages.
- Enter a number and press the **DirectSet** button to activate the setting or menu.
- Enter **0** and press the **DirectSet** button to close the menu.

Refer to your controller instructions to determine if it is compatible with the DirectSet Menu function.

WJM 04/2009