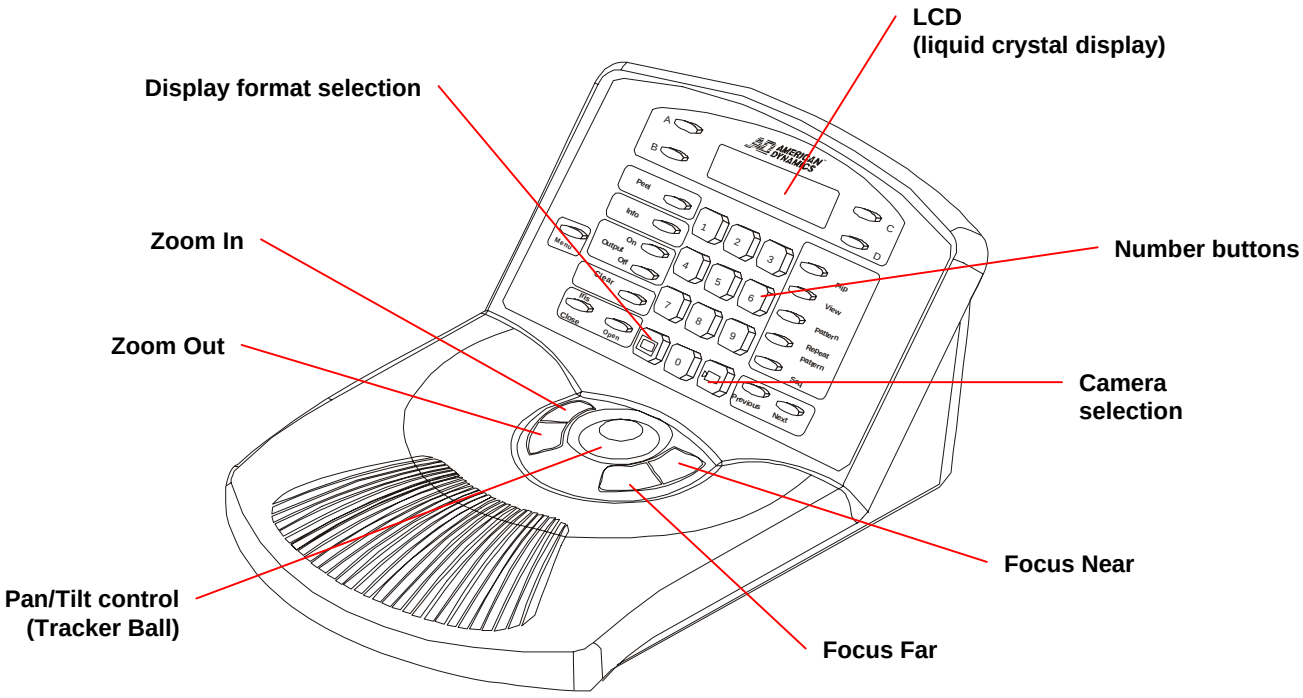
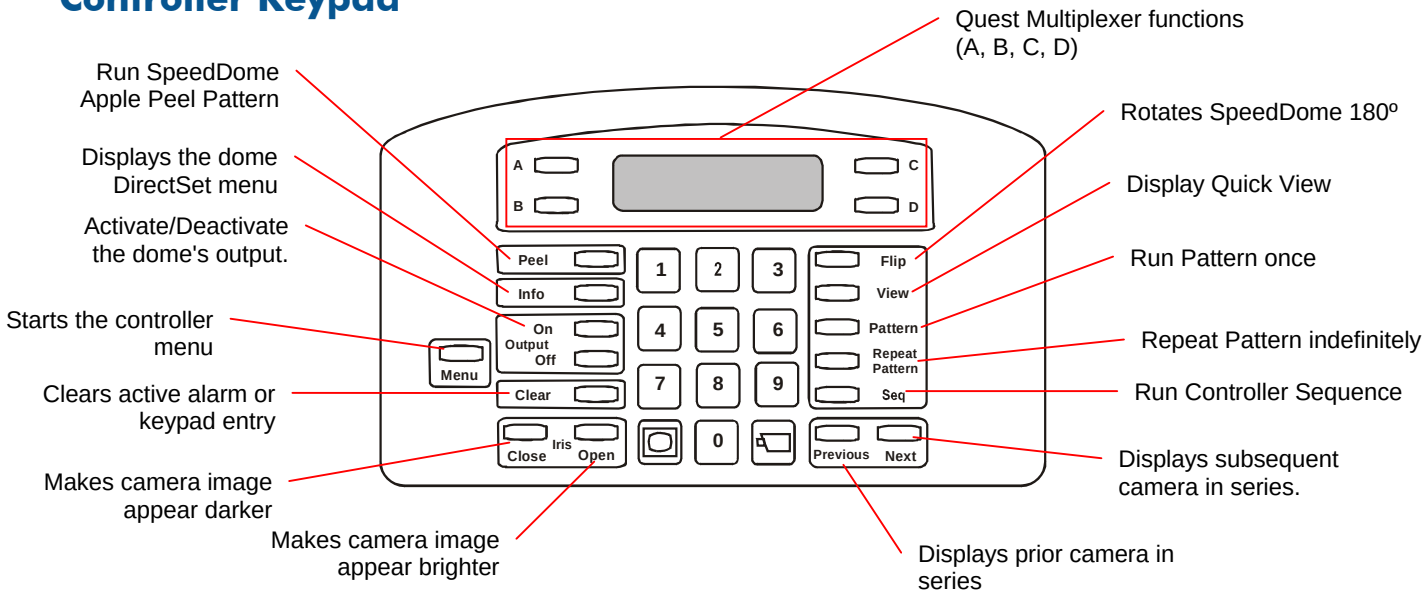
ADTT16E Advanced Dome Controller

Quick Reference Guide

Controller (Touch Tracker®) Features



Controller Keypad



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Basic System Operation

Logging On

If passwords are enabled, you must log on before using the controller.

1. `Enter Password` appears on the LCD.
2. Enter the 4-digit password.
   - If the code is recognized, the Camera information appears on the LCD.
   - If the code is not recognized, the controller beeps and `Enter Password` remains on the LCD. Try entering the password again.
3. Once the password is entered, you can begin performing the other tasks described in this manual.

Logging Off

1. Press **Menu**. `Logoff` appears on the first line of the LCD.
2. Press **Zoom** to select the first line of the LCD.
3. `Enter Password` appears on the LCD indicating that the logoff was successful.

Changing Monitor Display Formats

If you are connected to a quad splitter or multiplexer, different display formats are available on the Main monitor.

- Full-screen
- 2X2 (for quad splitters and 4, 9, and 16-camera multiplexers)
- 3X3 (for 9 and 16-camera multiplexers)
- 4X4 (for 16-camera multiplexers)

Press (Display button) to sequence through the available display formats.

Note: If a Quest multiplexer is installed, other display formats are available. See the ***ADTT16E Advanced Dome Controller Operator's Manual*** (8200-0306-02) for more information.

Selecting Cameras

1. Enter the camera number (1-64).
2. Press (Camera button).

The selected camera's video appears in full-screen format on the monitor under control by the controller.

Stepping through the Cameras

To sequentially display the first 16 installed cameras, press **Previous** and **Next**.

- **Previous** displays the prior camera in the series.
- **Next** displays the following camera in the series.

"Flipping" the SpeedDome

Press the **Flip** button to rotate the currently selected SpeedDome 180° in the opposite direction.

Running the Apple Peel Pattern

The "Apple Peel" pattern is the default pattern for SpeedDome camera domes. It consists of three revolutions of camera panning with tilt, starting at the ceiling line. Each revolution tilts down approximately 30° and provides a complete view of the area.

Press **Peel** to run the Apple Peel pattern for the currently selected SpeedDome. The pattern repeats indefinitely until a camera command (pan, tilt, zoom or focus) is sent to the dome running the pattern.

Displaying Quick Views

Quick Views allow you to call up a scene from programmable domes, regardless of where that dome is currently pointing.

Note: SpeedDome Ultra III and newer domes support 96 Quick Views. Domes older than SpeedDome Ultra III support 4 Quick Views.

1. Select the camera whose Quick View you want to display.
2. Enter the Quick View number (1-96) and press View.

The selected Quick View displays on the monitor.

Running Patterns

Patterns are sequential series of pan, tilt, zoom, and focus movements from a single programmable dome. You “teach” the dome a combination of these movements that can be replayed automatically.

Note: Most SpeedDome series domes support 3 patterns. SpeedDome LT does not support patterns, but uses Pattern 1 for the auto pan function.

1. Select the camera whose Pattern you want to run.
2. Enter the Pattern number (1-3), and then do one of the following:
   - Press **Pattern** to run the pattern one time and stop.
   - Press **Repeat Pattern** to run the pattern indefinitely.

Note: To stop a pattern, issue a camera command (pan, tilt zoom or focus) to the dome running the Pattern.

Running the Controller Sequence

The Controller Sequence is a collection 16 Quick Views, Patterns, and fixed shots, that play one after the other on the Main monitor. It provides a broad surveillance of a facility.

To initiate the pre-defined Sequence, press **Seq**. The Sequence repeats indefinitely until you press **Seq** or **Clear**.

Control Dome Outputs

Use a copy of the Inputs/Outputs Worksheet to determine which output you want to control.

1. Enter the camera number and press to select the dome.
2. Enter the output number (1-4), and press **Output On** or **Output Off**.
   - **Output On** activates the output.
   - **Output Off** deactivates the output.

Clearing Alarms

Press **Clear** to acknowledge the alarm whose information appears on the LCD. Up to four alarms may be queued on the controller.

Note: If Automatic Alarm Acknowledgement is enabled, the alarm clears after a 60 seconds.

Advanced System Operation

IMPORTANT! Some advanced functions are only available on the primary controller.

Working in Menu Mode

Press **Menu** to switch the controller to menu mode. This mode allows you to program features and configure controller settings. When menu mode is active:

- Use the **Tracker Ball** to scroll through the menu.
- Press **Zoom** to select menu item appearing on the first line of the LCD.
- Press **Focus** to select the menu item appearing on the second line of the LCD.

Programming Quick Views

1. Select the camera where the Quick View will be saved.
2. Adjust the pan, tilt, zoom and focus settings for the camera until the scene you want to save appears on the monitor.
3. Press **Menu**.
4. Scroll through the menu until `Setup View` is displayed on the LCD. Press **Zoom** or **Focus** to select.
5. `Enter View#?` appears on the LCD. Enter the view number (1-96), then press **Zoom**, **Focus** or **View** to save.

`View Saved` appears briefly on the LCD.

Programming Patterns

1. Select the camera where the Pattern will be saved.
2. Adjust the pan, tilt, zoom and focus settings for the camera until the starting point of Pattern appears on the monitor.
3. Press **Menu**.
4. Scroll through the menu until `Record Pattern` is displayed on the LCD. Press **Zoom** or **Focus** to select.
5. Enter the Pattern number (1 - 3) that you want to assign to this pattern.
6. Move the camera around, zoom and focus as necessary to create a logical camera pattern.

   Note: If you make a mistake during programming and no longer want to program the pattern, press **Clear**.
7. When you complete creating the pattern, press **Next**.

SpeedDome LT Auto Pan Programming

The auto pan for SpeedDome LT is programmed the same as other Patterns with the following exceptions:

- Only Pattern 1 can be programmed.
- Any extraneous movements made during the Auto Pan programming will be ignored when the programming is complete.
- Do not attempt to create an Auto Pan that is greater than one revolution (360º) of the SpeedDome LT.

Lock/Unlock the Multiplexer

To prevent or allow access to the front panel functions on the multiplexer, use the lock/unlock function.

1. Press **Menu**.
2. Scroll through the menu items until `Tog MUX Lock` appears on the LCD. Pressing **Zoom** or **Focus** toggles the setting.
   - If lock is enabled, `Lock_key` momentarily displays on-screen.
   - If lock is disabled, `Unlock_key` momentarily displays on-screen.
3. Press **Menu** to resume camera control mode.

Note: When locked, the Quest multiplexer front panel lock button illuminates.

Controller Sequence Programming

1. Press **Menu**.
2. Scroll through the menu until `Define Sequence` appears on the LCD. Press **Zoom** or **Focus** to select.
3. Use the Tracker Ball to scroll to the event you want to define. If necessary, press **Clear** to remove any previously programmed information.
4. Enter the camera number in the `Cam` field.
5. Move the cursor to the `Act` field. Do one of the following:
   - For a Quick View or fixed shot, press **View**. Enter the Quick View number (1-96) or press **Clear** to remove numbers for a fixed shot.
   - For a Pattern, press **Pattern**. Enter the Pattern number (1-3).
6. Move the cursor to the `Dur` field. Enter the event duration time (1 to 90 seconds).
7. To program other events, repeat steps 3 through 6. When finished, press **Zoom** or **Focus** to save the Sequence.
8. When you complete defining the Sequence, press the **Menu** button. This returns the controller to the camera control mode.

Adjust LCD Backlighting

1. Press **Menu**.
2. Scroll through the menu items until `Adj Backlighting` appears on the LCD. Press **Zoom** or **Focus** to select.
3. Press **Previous** and **Next** to change the setting.
   - **Previous** makes the backlighting dimmer.
   - **Next** makes the backlighting brighter.
4. When finished making changes, press **Menu** to resume camera control mode.

Turn Key Click On / Off

1. Press **Menu**.
2. Scroll through the menu items until `Key Click On/Off` appears on the LCD. Press **Zoom** or **Focus** to select.

   The current key click setting appears on the LCD.
3. Press **Next** to change the setting.
   - `Keyclick ON` indicates that key click sound is enabled.
   - `Keyclick OFF` indicates that key click sound is disabled.
4. When finished making changes, press **Menu** to resume camera control mode.

Adjust Key Click Volume

1. Press **Menu**.
2. Scroll through the menu items until `Adj Keyclick Vol` appears on the LCD. Press **Zoom** or **Focus** to select.
3. Press **Previous** or **Next** to change the setting.
   - Press **Previous** to make the volume softer.
   - Press **Next** to make the volume louder.
4. When finished making changes, press **Menu** to resume camera control mode.

Changing the Controller Language Setting

1. Press **Menu**.
2. Scroll through the menu items until `Select Language` appears on the LCD. Press **Zoom** or **Focus** to select.
3. The list of supported languages appears on the LCD, two items at a time. The following languages are available:
   - English
   - French
   - Spanish
   - German
   - Dutch
   - Italian
   - Japanese
   - Portuguese
   - Swedish
   - Hungarian
4. Scroll through the list until the preferred language setting appears. Press **Zoom** or **Focus** to activate the language setting.

The controller automatically restarts to activate the new setting.

Quest Multiplexer Support

The ADTT16E advanced dome controller provides support for the MultiVision Quest triplex multiplexer. The following table describes which controller features are used with the Quest triplex multiplexer.

A	Initiates or selects one of three multiplexer sequence screens.
B	Toggle between multiplexer digital zoom and zoom area adjustment.
C	Toggle between freeze frame and freeze field mode.
D	Exit current multiplexer mode.
Tracker Ball	Adjust position of highlighted window or zoom area.
(Display)	Change display format between available multiplexer window formats.
(Camera)	Assign cameras to windows in multiplexer display format.
Zoom/ Focus	Select page to program for selected multiplexer sequence.

The ***ADTT16E Advanced Dome Controller System Operator's Manual*** (8200-0306-02) describes in detail how to use the controller to access the Quest multiplexer functions. Refer to this manual for more information about the supported functions.

Displaying Dome DirectSet Menu

SpeedDome Ultra VII and other suitably equipped domes provide a “DirectSet” menu to access commonly used features. The **Info** button on the ADTT16E controller is used to display this menu.

Figure 1: SpeedDome Ultra VII 22x DirectSet Menu

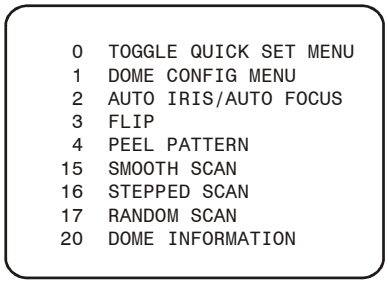
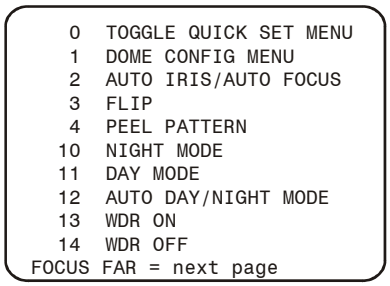
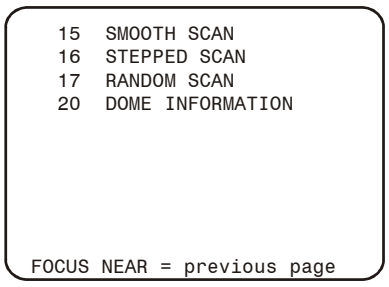


Figure 2: SpeedDome Ultra VII Day/Night DirectSet Menu (2 pages)





IMPORTANT! Flip and Peel Pattern are also available by pressing the appropriate buttons on the controller keypad.

- To select a DirectSet menu item, enter the menu item number and press **Info**.
- To close the DirectSet menu without making a selection, press **Info** (or **0 + Info**).

Note: You can access any DirectSet feature by entering the menu number and pressing **Info** even if the DirectSet menu is not displayed.

Table 1: DirectSet Menu Items

0+Info: Toggle Quick Set Menu	Toggles between displaying and hiding the DirectSet menu.
1+Info: Dome Config Menu	Displays the SpeedDome Ultra configuration menu. Refer to the dome manual for information about the available settings.
2+Info: Auto Iris/Auto Focus	Resumes Auto Focus/Auto Iris mode.
3+Info: Flip	Rotates the SpeedDome 180° from its current pointing direction. This is the same as pressing the **Flip** button on the controller.
4+Info: Peel Pattern	Runs the default Apple Peel Pattern. This is the same as pressing the **Peel** button on the controller.
10+Info: Night Mode *Day/Night dome only*	Switches the dome to full-time black-and-white (B/W) mode. Day/Night dome only.
11+Info: Day Mode *Day/Night dome only*	Switches the dome to full-time color mode.
12+Info: Auto Day/Night Mode *Day/Night dome only*	Resumes the most recently selected automatic IR mode setting.
13+Info: WDR On *Day/Night dome only*	Enables Wide Dynamic Range.
14+Info: WDR Off *Day/Night dome only*	Disables Wide Dynamic Range.
15+Info: Smooth Scan	Initiates a smooth 360° clockwise rotation around the dome axis using the current tilt, zoom and focus settings.
16+Info: Stepped Scan	Initiates a clockwise rotation around the dome axis pausing briefly every 10° using the current tilt, zoom and focus settings.
17+Info: Random Scan	Initiates a clockwise or counterclockwise rotation around the dome axis using the current tilt, zoom and focus settings. The dome pauses randomly as it rotates around the axis.
20+Info: Dome Information	Displays the Dome Information screen available through the dome configuration menu.

Specifications

SensorNet

Bit Rate 230.4Kbps

Physical Layer ..... Non-shielded twisted pair

Link Layer Protocol ..... SDLC

Application Protocol ..... Proprietary

Network Nodes ..... Controller, SensorNet domes

Advanced Dome Controller

Operator Inputs ..... 31-key keypad, 4 micro-switches, 1 Tracker Ball

Operator Outputs ..... LCD screen (2-line x 16 characters)

Control Input/Output ..... SensorNet (domes, controller) RS232 (multiplexer or quad splitter)

Electrical

Power Source: ..... 16–30Vac at 50/60Hz

Power Consumption: ..... 1400mA, 2A max.

Mechanical

Height 13cm (5in.)

Width 19cm (7.5in.)

Depth 26cm (10in.)

Weight 1kg (2.2lbs)

Environmental

Operating Temperature: ..... 0°–50°C (32°–122°F)

Relative Humidity: ..... 0%–95% non-condensing

Storage Temperature: ..... -20°–64°C (-4°–149°F)

Product Compatibility

Domes ..... All SpeedDome Optima and SpeedDome Ultra Series domes

J-Boxes ..... All versions of Indoor and Outdoor SensorNet J-Boxes

Quads ..... All Sensormatic, Robot and American Dynamics Quads

Multiplexers ..... Robot/Sensormatic Simplex and Duplex models (includes Multivision Pro series) Multivision Quest series triplex models

Declarations

Regulatory Compliance

Emissions ..... FCC: 47 CFR Part 15, Class A
CE: EN55022 Class B
CE: EN61000-3-2
CE: EN61000-3-3
AS/NZS 3548, Class A
CISPR22
ICES-003

Immunity ..... CE: EN50130-4

Safety ..... UL: UL1950
cUL: CSA 22.2 No. 950
IEC950
CE: EN60950

FCC COMPLIANCE: This equipment complies with Part 15 of the FCC rules for Class A digital devices when installed and used in accordance with the instruction manual. Following these rules provides reasonable protection against harmful interference from equipment operated in a commercial area. This equipment should not be installed in a residential area as it can radiate radio frequency energy that could interfere with radio communications, a situation the user would have to fix at their own expense.

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