

# **HJZTP/HJZTPX**




**Joystick Controller for  
PTZ Cameras, DVRs, and Multiplexers**

## **Installation and User Guide**

## HJZTP(X) Controller Installation and User Guide

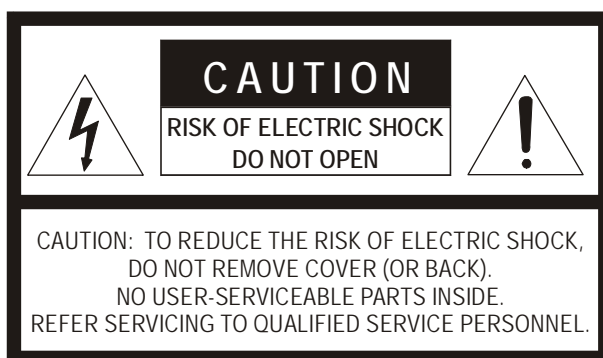
Revision	Date	Description
<b>HJZMU001150</b>		
A	March 2005	Initial Release.
B	July 2005	Revised Model # (ECI 2003)
<b>900.0570</b>		
1.00	August 2005	Revised Model #
1.01	September 2005	Revised cable qty. in package contents and added operation with KD6i/HD6i in Diamond Mode
1.02	March 2006	Added Multiplexer Firmware Revision Level required; revised the quantity of DVRs, Muxes, and added examples
1.03	September 2008	Replace the Diamond Protocol with the MAXPRO-mode Protocol
<b>800-04309</b>		
A	April 2009	<p>New document number for stock control.</p> <p>Added Fusion DVR instructions, ACUIX™ Series details/terminology and made consistent with ACUIX manuals; updated compatible products section</p> <p>Updated back page contacts and copyright, added warranty and service section and WEEE symbol, updated symbol explanations</p> <p>Corrected MAXPRO - can use privacy zones.</p> <p>Extensive formatting updates and editing for clarity and consistency</p> <p>Consolidated the two MAXPRO-mode sections (7 &amp; 8) after revision 1.03 changed one from Diamond operation</p> <p>Terminology: changed wording from keyboard to controller; MAXPRO to MAXPRO-mode; all the ACUIX terminology</p> <p>Added a glossary</p>


## Symbols

	<p><b>WARNING:</b> The stop sign in a red octagon is a WARNING. Failure to take or avoid a specific action could result in <b>physical harm to a person or irreparable damage to equipment.</b></p>
	<p><b>CAUTION:</b> The lightning flash with arrowhead symbol within an equilateral triangle alerts the user to the presence of uninsulated dangerous voltage within the enclosure of the product that <b>may be of sufficient magnitude to constitute a risk of electric shock to the person.</b></p>
	<p><b>CAUTION:</b> The exclamation point in a yellow equilateral triangle is a CAUTION. Failure to take or avoid a specified action <b>could result in loss of data or damage to equipment</b> and may contain important operating and maintenance servicing information.</p>

## Cautions and Warnings

Prior to installation and use of this product, please read all of the following sections.



	<p>Installation and servicing must be performed by qualified personnel in accordance with current IEE wiring regulations.</p> <p>The PSU must be wired to a double pole fuse spur with 3mm separation. The 3A fuse spur must be located close to the PSU.</p> <p>Using replacement parts or accessories other than the original manufacturers may invalidate warranty.</p>
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## FCC Compliance Statement

**Information to the User:** 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at their own expense.



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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## Canadian Compliance Statement

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This Class A digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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## European Compliance Statement

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



Users of the product are responsible for checking and complying with all federal, state and local laws and statutes concerning the monitoring and recording of video and audio signals. Honeywell Video Systems shall not be held responsible for the use of this product in violation of current laws and statutes.

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## Important Safety Information

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1. **READ INSTRUCTIONS** – All safety and operating instructions should be read before the unit is operated.
2. **RETAIN INSTRUCTIONS** – The safety and operating instructions should be retained for future reference.
3. **HEED WARNINGS** – All warnings on the unit and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS** – All operating and use instructions should be followed.
5. **CLEANING** – Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **ATTACHMENTS** – Do not use attachments not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.
7. **WATER AND MOISTURE** – Do not use this unit near water or in an unprotected outdoor installation, or any area classified as a wet location.
8. **ACCESSORIES** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the equipment. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the instructions and should use a mounting accessory recommended by the manufacturer. Wall or shelf mounting should follow the instructions and should use an approved mounting kit.
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



## HJZTP(X) Controller Installation and User Guide

10. **POWER SOURCES** – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your facility, consult your product dealer or local power company.
11. **OVERLOADING** – Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
12. **POWER-CORD PROTECTION** – Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords, plugs, and convenience receptacles.
13. **SERVICING** – Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
14. **DAMAGE REQUIRING SERVICE** – Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power-supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the unit.
  - c. If the unit has been exposed to rain or water.
  - d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
  - e. If the unit has been dropped or the enclosure has been damaged.
  - f. When the unit exhibits a distinct change in performance - this indicates a need for service.
15. **REPLACEMENT PARTS** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
16. **SAFETY CHECK** – Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
17. **LIGHTNING AND POWER LINE SURGES** – For added protection of this unit when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power-line surges.
18. **HEAT** – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
19. **INSTALLATION** – Do not install the unit in an extremely hot or humid location, or in a place subject to dust or mechanical vibration. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

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## Warranty and Service

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Subject to the terms and conditions listed on the Product Warranty Card, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

In the event you have a problem with any Honeywell product, please call Customer Service for assistance or to request a Return Merchandise Authorization (RMA) number. Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

In the U.S.A. and Canada, call 1.800.796.2288. For all other locations refer to the back cover of this document.

Prior authorization must be obtained for all returns, exchanges, or credits. Items shipped to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.



**WEEE (Waste Electrical and Electronic Equipment).** Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures

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## Introduction

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### Product Description

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**Figure 1: HJZTP Controller**



The HJZTP(X) controller is compatible with DVRs, multiplexers, and PTZs using Honeywell VCL or MAXPRO-mode protocols. It can control systems up to a maximum of 128 PTZ cameras and any combination of DVRs and/or multiplexers (using RS485 distribution boxes such as the HDCD8TP) of up to 128 video inputs. The controller can also be used with the Fusion DVR to control ACUIX™ PTZ domes. You need to purchase a MOXA converter RS 232-485 separately for this purpose (see [Figure 9](#) on [page 24](#)).

### Model Numbers and Items Shipped

Controller Model Options	
Model	Description
HJZTP	Joystick Controller for PTZs, DVRs, and Multiplexers. Power supply requires 120 VAC (North America).
HJZTPX	Joystick Controller for PTZs, DVRs, and Multiplexers. Power supply requires 240 VAC (EMEA).

Items included in your shipment:	
Quantity Shipped	Description
1	HJZTP or HJZTPX Joystick Controller
1	Installation/User Guide
1	120 VAC to 12VDC 300mA power supply (HJZTP) or 230 VAC to 12VDC 300mA power supply (HJZTPX)
2	Cable, 8-Way RJ45 Connector on both ends (connect between controllers)
1	Cable, RJ45 connector one end and fly leads with green wire and blue wire on other end (connect to DVR)
1	Cable, 8-Way RJ45 Connector one end and fly lead with white/orange and orange wires on other end (connect to PTZ Domes)

## Compatible PTZs, DVRs and Multiplexers



As of April 2009, all HJZTP(X) controllers are shipped with firmware versions 2.8.2 or higher. This firmware is required to operate with Fusion DVRs. Older HJZTP(X) controllers are not compatible with Fusion. If required, contact technical support to determine if a firmware upgrade is available.

The HJZTP(X) controller is compatible with the following products:

### Current Products

**Multiplexers:** HXCT4, HXCT9, HXCT16

**DVRs:** HRSD, HRXD, Fusion

**PTZ Domes:** ACUIX™ PTZ

### Discontinued Products

**DVRs:** HRHD1, HRHD410, HRHD4, HRHD9, HRHD16

**Multiplexers:** AHDR4X, AHDR9X, and AHDR16X HXMT4, HXMT9, HXMT16

**PTZ domes:** KD6, KD6i, HD6, Orbiter Insight, Orbiter Lite, Orbiter Gold, Orbiter Platinum, RapidDome Gold

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**NOTE:** Some information specific to discontinued products is listed in the appendices and can also be found in the previous version of this guide (900.0570 Rev 1.03), which can be found on the Honeywell website.

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## About Using this Guide

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This guide is divided into three sections with instructions to install, configure and use the HJZTP(X) joystick controller. However, it is not possible to describe all configuration options available to the user. For example, this guide explains how to configure the HJZTP(X) using its LCD. Except for one section for the Fusion DVR, no instructions are included about how to use the multiplexer, PTZ or DVR.

Depending on your particular needs, you may also need to:

Refer to your applicable PTZ dome, DVR or multiplexer guides for detailed installation information. For example, the ACUIX series PTZ domes can be configured using the HJZTP(X) controller and a monitor to access the on-screen display (OSD) menus. Detailed instructions following this method are described in the [ACUIX Installation and Configuration Guide](#).

Refer to [Appendix A: Glossary](#) for terminology specific to PTZ domes.


If this is a replacement HJZTP(X) controller, you may need to contact technical support if you encounter any backwards compatibility issues.

## Finding More Information on the Honeywell Website

Refer to the on-line literature library to access electronic documents in PDF format <http://www.honeywellvideo.com/support/literature/index.html> or see the contact list on the back cover of this document for international websites.

## Typographical Conventions and Task-based Instructions

The instructions in this guide are task-based and the following typographical conventions are used to distinguish between all the different ways to enter information or follow steps.

Font	What it represents	Example																																		
<b>Swiss 721 BT bold (sentence case)</b>	<ul style="list-style-type: none"> <li>Words or characters typed/entered.</li> <li>Selecting a menu item from a drop-down list on a DVR or multiplexer.</li> </ul>	Enter the <b>Setup</b> menu and click <b>Network Setup</b> .																																		
<b><u>Swiss 721 BT bold and underlined</u></b>	<ul style="list-style-type: none"> <li>To indicate an action during a step is important to follow.</li> </ul>	Press <b><u>and hold LOCK</u></b> .																																		
<i>Swiss 721, blue italic</i>	<ul style="list-style-type: none"> <li>Cross references to an external source or within the document.</li> </ul>	Also <i>see Figure 6: Connecting to DVRs and Multiplexers</i> .  Refer to <i>the ACUIX Installation and Configuration Guide</i> .																																		
<b>SWISS 721 BOLD (UPPERCASE)</b>	<ul style="list-style-type: none"> <li>Pressing a key on the controller.</li> <li>An image of the key is included when the key has both text and a symbol.</li> </ul>	Press <b>DISPLAY</b>  .																																		
<b>Arial 11 Bold</b>	<ul style="list-style-type: none"> <li>Entering a command or selecting a menu item from the HJZTP(X) LCD menu.</li> <li>The name of an LCD menu.</li> <li>The item corresponds to the LCD display, as below.</li> </ul>	Select <b>KEYBRDTYP</b> from the LCD menu.  If <b>FUSION</b> is flashing, it means the controller has automatically identified that a Fusion DVR is connected and the Fusion DVR communication protocol is supported.																																		
	<table border="1"> <tr> <td>A</td><td>U</td><td>X</td><td>=</td><td>S</td><td>E</td><td>T</td><td>L</td><td>O</td><td>C</td><td>K</td><td>=</td><td>E</td><td>N</td><td>D</td> </tr> <tr> <td></td><td></td><td>D</td><td>V</td><td>R</td><td>T</td><td>Y</td><td>P</td><td></td><td></td><td>K</td><td>E</td><td>Y</td><td>B</td><td>R</td><td>D</td><td>T</td><td>Y</td><td>P</td> </tr> </table>	A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			D	V	R	T	Y	P			K	E	Y	B	R	D	T	Y	P	
A	U	X	=	S	E	T	L	O	C	K	=	E	N	D																						
		D	V	R	T	Y	P			K	E	Y	B	R	D	T	Y	P																		



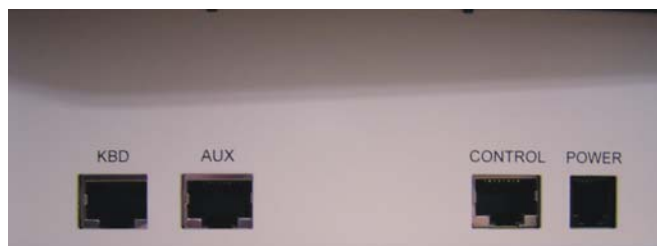


## Installing the HJZTP Controller

### HJZTP Connectors and Cables - Overview

All connections to and from the controller are made to the RJ type connectors located on the controller rear panel.

**Figure 2: HJZTP Rear Panel**



**Table 1: HJZTP Rear Panel Connector Functions**

Connector	Function
KBD (RS485)	Master controller – To connect to a slave controller. Slave controller – To connect to a higher number slave controller. VCL dome data input to master controller or last slave controller.
AUX (RS485)	Master controller – To connect either to a DVR or a multiplexer. Slave controller – To connect either to the master controller, or a lower number slave controller.
CONTROL (RS485)	RS485 telemetry output – for connection to Honeywell PTZ domes or an RS485 distribution box.
POWER	Connection to 12VDC 300mA power.

#### Eight-Way RJ45 Connector to Eight-Way RJ45 Connector

- Used to connect a slave controller to a master controller, a slave controller to another slave controller or a master controller to a multiplexer.

#### Eight-Way RJ45 Connector to White/Orange Wire and Orange Wire

- Used to connect the master controller to the PTZ dome RS485 connection. The orange/white wire is data (+), and the orange wire is data (-).

#### Eight-Way RJ45 Connector to Green Wire and Blue Wire

- Used to connect the master controller to the DVR RS485 connection. The green wire is data (+), and the blue wire is data (-).
- Also used to input PTZ dome RS485 data from a control device to the master controller, or last slave controller. Again the green wire is data (+), and the blue wire is data (-).

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## Installation Options for DVRs, Multiplexers and PTZ Domes

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**NOTE:** Refer to all applicable PTZ dome, DVR and multiplexer manuals for specific termination, safety and installation information.

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### PTZ, DVR and Multiplexer Installation Options

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**NOTE:** See [Appendix A: Glossary](#) for terminology specific to PTZ domes.

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The HJZTP(X) controller can control up to 128 PTZ domes with 1, 4, 9 and 16-way DVRs and/or 4, 9, 16-way multiplexers. PTZ domes (cameras) are assigned to DVRs in blocks of 1, 4, 9 or 16, or to multiplexers in blocks of 4, 9 or 16, to correspond with 1, 4, 9 or 16-way DVRs and multiplexers. By default the controller is configured to:

- Connect PTZ domes 1 to 16 to DVR 1 and multiplexer 1;
  - Control eight 16-way DVRs and eight 16-way multiplexers;
  - Connect PTZ domes 17 to 32 to DVR 2 and multiplexer 2, and so forth to a maximum of 128 PTZ domes connected to DVR 8 and multiplexer 8.
- 

**NOTE:** Only one row of information in [Table 2](#) is displayed at a time on the LCD menu.

---

[Table 2](#) is an example of an installation configuration. After you have installed and made all the connection, go to [Configuring the HJZTP Controller on page 27](#) to continue setting-up the hardware.

**Table 2: Example of a PTZ Dome, DVR and Multiplexer Configuration**

PTZ Dome Number		DVR Number		Multiplexer Number		Configuration											
CAM	1	DVR1		MUX1		<b>DVR 1</b> 4-way DVR		<b>MUX 1</b> 16-way multiplexer									
CAM	2																
CAM	3																
CAM	4																
CAM	5	DVR2				MUX1				<b>DVR 2</b> 4-way DVR							
CAM	6																
CAM	7																
CAM	8																
CAM	9	DVR3		MUX2				<b>DVR 3</b> 16-way DVR									
CAM	10																
CAM	11																
CAM	12																
CAM	13																
CAM	14																
CAM	15																
CAM	16																
CAM	17	DVR4				MUX2						<b>MUX 2</b> 16-way multiplexer					
CAM	18																
CAM	19																
CAM	20																
CAM	21																
CAM	22																
CAM	23																
CAM	24																
CAM	25	DVR4		MUX2				<b>DVR 4</b> 9-way DVR									
CAM	26																
CAM	27																
CAM	28																
CAM	29																
CAM	30																
CAM	31																
CAM	32																
CAM	33	DVR NO				MUX3		<b>No DVR</b>				<b>MUX 3</b> 4-way multiplexer					
CAM	34																
CAM	35																
CAM	36	DVR5						MUX3						<b>DVR 5</b> 4-way DVR		<b>No multiplexer</b>	
CAM	37																
CAM	38	MUX	NO											MUX			
CAM	39	MUX	NO			MUX						NO					
CAM	40	DVR	NO			MUX	NO					<b>No DVR</b>		<b>No multiplexer</b>			

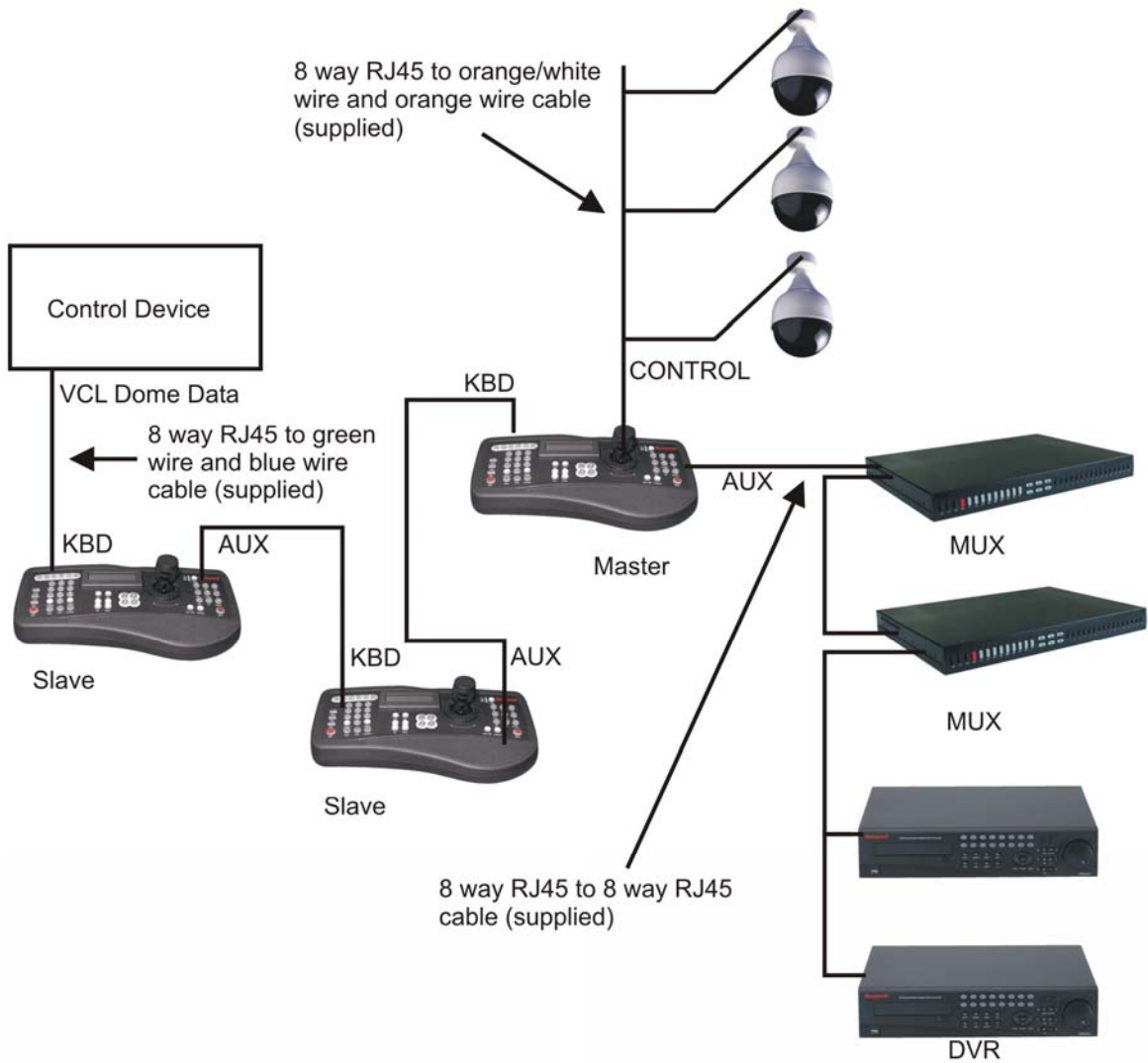
## Cascading Controllers with PTZ Domes, DVRs, and Multiplexers

**NOTE:** The installer supplies all multiplexer and DVR interconnecting cables.

It is possible to cascade up to three slave controllers off a master controller connected to the multiplexer / DVR and PTZ dome RS485 line. All controllers in the cascade can communicate with any DVR, multiplexer or PTZ dome connected to the master.

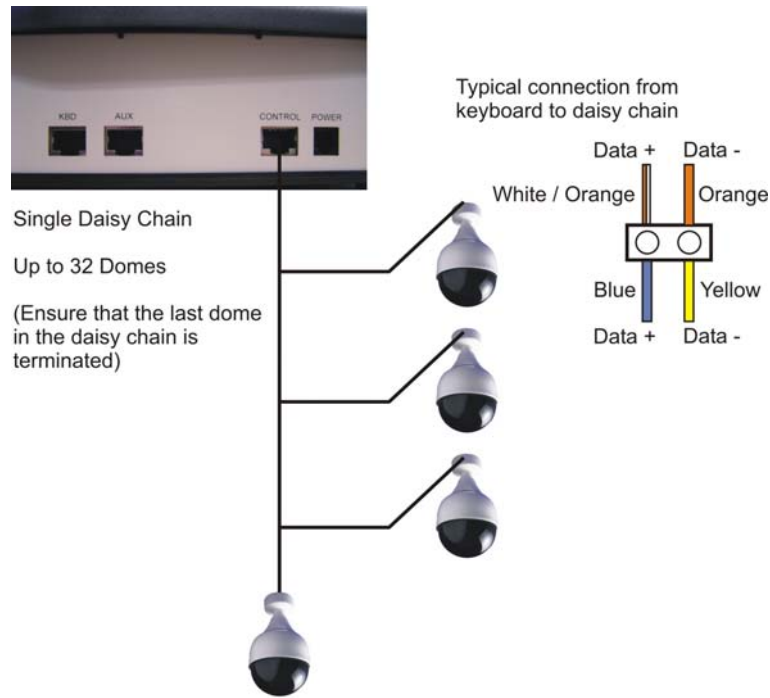
In a cascaded controller system, two slave controllers are connected to a master controller. See [Figure 3](#). The system shown also has two multiplexers and two DVRs connected and VCL protocol PTZ dome data is sent into the system from a control device.

**Figure 3: An Example of a Cascaded System**



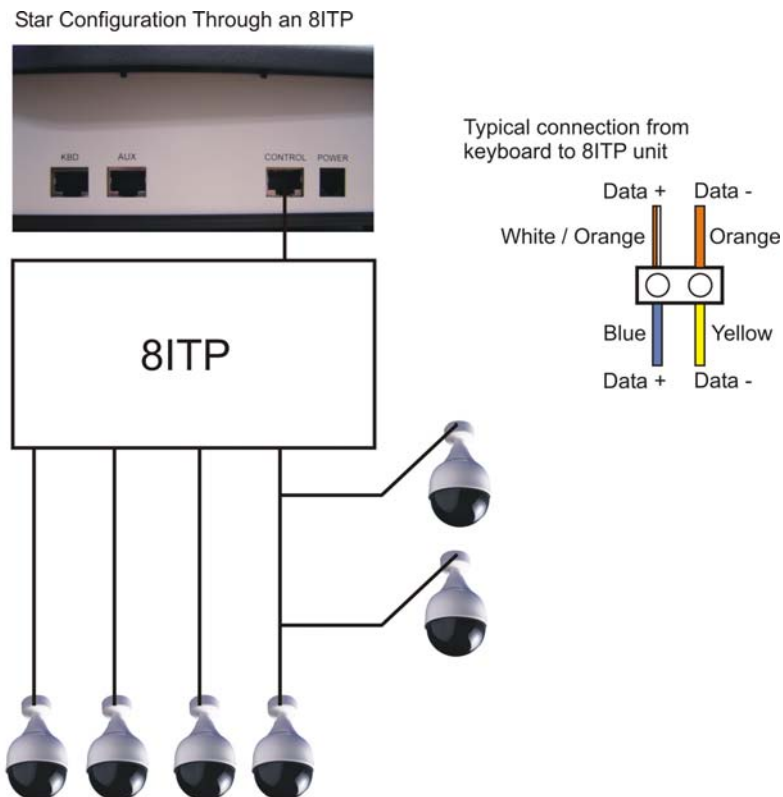
## Configuring PTZ Domes for a Daisy Chain Connection

Figure 4: Daisy Chain Configuration



## Configuring PTZ Domes for a Star Wiring Connection

Figure 5: Star Wiring Configuration



---

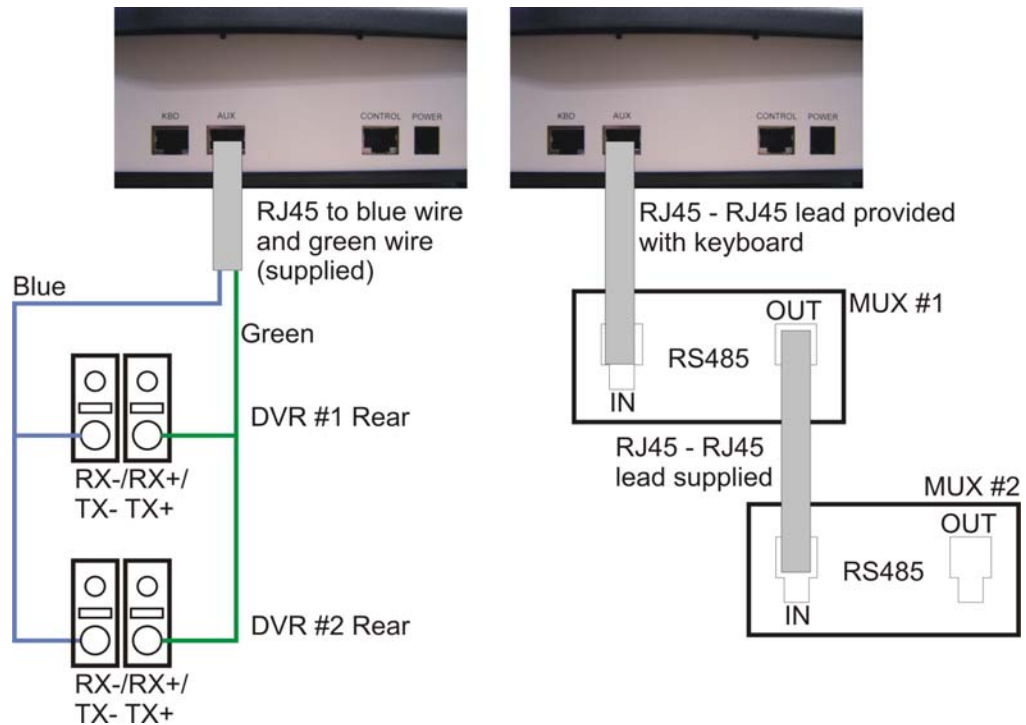
## Connecting DVRs and Multiplexers to the Controller

---

**NOTE:** The installer supplies all the interconnecting cables when multiple DVRs or multiplexers are installed.

---

**Figure 6: Connecting to DVRs and Multiplexers**



---

## Configuring the Multiplexer Network Settings

---

**NOTE:** The multiplexer address and communication settings must be correctly set using the menus on the multiplexer before being controlled with an HJZTP(X) controller.

---

- Network Type - RS485
  - Baud Rate – 9600
  - Protocol – A
  - Unit Address - 001 for multiplexer 1, 002 for multiplexer 2 etc.
- 

**NOTE:** Also see [Figure 6: Connecting to DVRs and Multiplexers](#)

---

## Installing and Configuring Fusion or Non-Fusion DVRs

### Connecting Fusion or Non-Fusion DVRs – Pin Assignments

Figure 7: Keyboard/AUX/Control Connectors  
(viewed from wiring input side of plug)

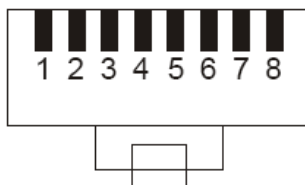


Table 3: DVR Connector Pin Assignments		
KBD		
Pin	Signal	Usual wire color
1	To slave D+	White / Orange
2	To slave D-	Orange
4	From slave or VCL data in D-	Blue
5	GND	White / Blue
6	From slave or VCL data in D+	Green
AUX		
Pin	Signal	Usual colour
1	From master D+	White / Orange
2	From master D-	Orange
4	To DVR or master D-	Blue
5	GND	White / Blue
6	To DVR or master D+	Green
CONTROL		
Pin	Signal	Usual colour
1	To / from dome D+	White / Orange
2	To / from dome D-	Orange
3	GND	White / Green

Figure 8: DVR Power Connector  
(viewed from wiring input side of plug)

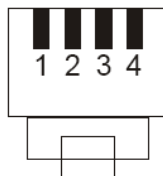


Table 4: Power Pin Assignments		
Pin	Signal	Usual wire color
1	GND	Green
4	+12 VOLTS	Red

## Setting Fusion or Non-Fusion DVR Parameters

---

**NOTE:** For all DVRs, the DVR number and RS485 port settings must be set using the menus on the DVR before you can control it with an HJZTP(X) controller.

---

- Baud Rate – 9600
  - Parity – None
  - Data – 8
  - Stop – 1
  - Unit ID - 1 for DVR 1, 2 for DVR 2 etc.
- 

**NOTE:** Also see [Figure 6: Connecting to DVRs and Multiplexers](#).

---

## Connecting a Fusion DVR to the HJZTP or an ACUIX PTZ

An RS485 to RS232 converter cable is required if the AUX port uses the RS-485 protocol and the Fusion DVR serial port uses the RS-232 protocol.

See [HJZTP Connectors and Cables - Overview on page 17](#).

The controller can also be used with the Fusion DVR to control ACUIX™ PTZ domes. You need to purchase a MOXA converter RS 232-485 separately for this purpose (Honeywell part number HVB232422).

**Figure 9: MOXA RS 232-485 Converter for PTZ Domes**





## Configuring the HJZTP(X) Controller from the Fusion DVR Menu

1. Log into the Fusion DVR as the **Administrator**.  
The **Main Menu** opens.
2. Enter the **Setup** menu and click **Network Setup**.
3. In the lower right screen, click to select the **Use Keyboard Control** check box.
4. Click to select **Setup Keyboard Control**.
5. Confirm the default values match your HJZTP(X): baud rate = 9600; parity = none; data bits = 8; Stop bits = 1
6. Select a DVR ID or keep the default setting of **DVR1**.
7. Click **OK** > **Apply** > **OK** to save and exit.



## Configuring the HJZTP Controller

**NOTE:** If required, see [Using the HJZTP Controller - An Overview on page 35](#).

The following is required to be set-up before you can begin using the controller.

**Administrator (U1) access is required and the PIN to access these menus is 4769.**

See [About User Levels I and II Access to the Controller on page 35](#).

- *Controller Type:* Set the controller as master (the default) or one of three slave controllers.
- *DVR/multiplexer/PTZ connections:* The controller controls 1, 4, 9 and 16-way DVRs and/or 4, 9, 16-way multiplexers. PTZ domes can be assigned to DVRs in blocks of 1, 4, 9 or 16, or to multiplexers in blocks of 4, 9 or 16, to correspond with 1, 4, 9 or 16-way DVRs and multiplexers.
- *PTZ Dome Type:* Set the PTZ dome to either work directly with the controller or control it through a DVR.
- *PTZ Dome Protocol:* set-up to control PTZ domes using Honeywell VCL or MAXPRO-mode protocols.
- *DVR Type:* Select Fusion or non-Fusion.

### Selecting the Controller/Keyboard Type (Master or Slave)

1. Press **and hold LOCK**.
2. While holding down **LOCK**, enter the U1 PIN **4769**.  
**KEYBRD** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D	
K	E	Y	B	R	D	D	V	R	/	M	U	X	P	T	Z

3. To select the required option, use the joystick left and right or **F3**◀ and **F4**▶.
4. Press **AUX** to enter the menu.
5. Select **KEYBRDTYP**.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D				
				D	V	R	T	Y	P	K	E	Y	B	R	D	T	Y	P

## HJZTP(X) Controller Installation and User Guide

- Press **AUX** to enter the menu.  
If the controller has not been set-up previously, **MSTR** flashes. Otherwise, the current setting flashes to indicate which slave controller is under control **SLV1**, **SLV2**, or **SLV3**.
- Use the joystick left and right or **F3**◀ and **F4**▶ to select the required option.
  - Set the controller as the master if you are using only one controller or this controller is directly connected to PTZ domes, DVRs, and multiplexers.
  - Up to three slave controllers can be connected to the master controller where each slave controller is assigned a different number that displays on the LCD **SLV1, SLV2 or SLV3**.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D	
M	S	T	R	S	L	V	1	S	L	V	2	S	L	V	3

- Press **AUX**.  
The controller type selected is displayed for 1 second to confirm the selection and **MASTER** or **SLAVE** is displayed, where **n** is the slave controller number.
- Press **LOCK** to exit the menu.

---

## Configuring for Multiple DVRs, Multiplexers and PTZ Domes

---

**NOTE:** The DVR/multiplexer/PTZ dome connections are set from a master controller although the DVR/MUX menu can be viewed on a slave controller. When using a slave controller, **AUX = SET** does not display on the LCD and no changes can be made to the settings.

---

The controller must be set as a slave controller and connected to the master controller before editing the configuration on the master controller. Alternately, entering and exiting the DVR/MUX menu on the master controller, or powering up the master controller, resends the configuration to the slave controllers.

- From the controller set-up menu, select **DVR / MUX**.  
The LCD displays as follows:

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
C	A	M	1	D	V	R	1	M	U	X	1			

- In this example, the menu shows that **CAM1** (PTZ dome 1) is connected to **DVR1** and **MUX1** (multiplexer 1).
  - If the **1** next to **DVR** is flashing, it means you can change the DVR number assigned by pressing **AUX**.
  - If **AUX = SET** is not displayed on the LCD, then that DVR/multiplexer/PTZ dome does not exist and the number cannot be edited.
- Use the joystick up and down or **F1**▲ and **F2**▼ to scroll through all available PTZ domes.

- Use the joystick left and right or **F3**◀ and **F4**▶ to select a different DVR or multiplexer number. Pressing **AUX** cycles through all legal settings of the selected DVR or multiplexer number. If **NO** displays, this means that no DVR or multiplexer is connected to the PTZ dome. See [Table 2](#) for an example.
- Once the DVR/multiplexer/PTZ dome configuration is set, press **LOCK** to exit the menu.

## Selecting the PTZ Dome Protocol (VCL or MAXPRO-mode)

**NOTE:** The protocol can only be set from a master controller. You can view the protocol menu on a slave controller but **AUX = SET** is not displayed on the LCD and no access is allowed.

Before changing a master controller protocol, and to ensure slave controllers are set to the correct protocol, set the controller as a slave and then connect it to the master controller. You can also enter and exit the master controller protocol menu or power up the master controller and then re-send the protocol setting to the slave controllers.

- Ensure you are using a master controller. See [Selecting the Controller/Keyboard Type \(Master or Slave\) on page 27](#).
- Select **PROTOCOL** from the LCD menu.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
P	R	O	T	O	C	O	L	-		V	C	L		

- Press **AUX** on the controller to toggle between **VCL** and **DIAMOND**.

**NOTE:** Although **DIAMOND** displays on the LCD, the **ACUIX** PTZ dome default is **MAXPRO-mode** and this operates the same as **Diamond** protocol.

- Press **LOCK** to exit the menu.

## Setting the PTZ Control Type (Direct or Through a DVR)

- Select **PTZ** from the LCD menu.  
**PTZ** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D	
K	E	Y	B	R	D	D	V	R	/	M	U	X	P	T	Z

- Press **AUX** to enter the menu.  
**CTRYP** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
P	R	O	T	O	C	O	L				C	T	R	T	Y	P

- Select **CTRYP** from the PTZ setup menu.

4. Press **AUX**.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
D	I	R	E	C	T	C	T	R				D	V	R	C	T	R

- If **DIRECTCTR** is flashing, the controller is connected directly to the PTZ domes. If the controller is set to **NONFUSION DVR** mode, the controller can only directly connect to the domes **DIRECTCTR**.
  - If **DVRCTR** is flashing, it means the domes are controlled through a DVR. If the controller is set to DVR type **FUSION**, the controller must be set to **DVRCTR**.
5. To change the control type, press **F3** ◀ or **F4** ▶ followed by **AUX**.

---

## Selecting the DVR Type (Fusion or Non-Fusion)

---

1. After unlocking the keyboard, and from the menu where **KEYBRD** is flashing on the LCD, select an option using the joystick left and right or **F3** ◀ and **F4** ▶ to navigate.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
K	E	Y	B	R	D		D	V	R	/	M	U	X		P	T	Z

2. Press **AUX** to enter the menu.
3. Select **DVRTYP**.

**DVRTYP** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D				
		D	V	R	T	Y	P			K	E	Y	B	R	D	T	Y	P

4. Press **AUX** to enter the next menu.
5. To change the **DVR TYP**, press **F3** ◀ or **F4** ▶ followed by **AUX**.

If **FUSION** is flashing, it means the controller has automatically identified that a Fusion DVR is connected and the Fusion DVR communication protocol is supported.

If **NONFUSION** is flashing, it means the controller has automatically identified that a non-Fusion DVR is connected and the non-Fusion DVR communication protocol is supported.

5. Press **LOCK** to exit the menu.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D				
		F	U	S	I	O	N			N	O	N	F	U	S	I	O	N

## Optional PTZ Dome Configuration Menus

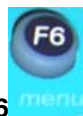
**NOTE:** If required, see *Using the HJZTP Controller - An Overview on page 35*.

There are optional configurations that can be made under the LCD menus on the controller. **Administrator (U1) access is required.** See *About User Levels I and II Access to the Controller on page 35*.

In this section:

- Turn NightShot ON or OFF
- Turn the IR Lamp Setting ON or OFF
- Turn Digital Zoom ON or OFF
- Turn Auto 180 ON or OFF

### About the Camera Set-Up LCD Menu



- Press **and hold LOCK**, then press **F6**.  
The **HOME, PRIVACY, RESET** menu displays and **HOME** flashes on the LCD.
- Use the joystick down or **F2 ▼** to scroll to the menu options. The Camera Set-Up Menu has several rows of options available.

The first row is the **HOME, PRIVACY RESET** menus.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
H	O	M	E		P	R	I	V	A	C	Y		R	E	S	E	T

Use the joystick down or **F2 ▼** to scroll to the second row - the **ZOOM** **IR LAMP AUTO180** menus described in this section.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D					
Z	O	O	M		I	R	/	L	A	M	P		A	U	T	O	1	8	0

Use the joystick down or **F2 ▼** to scroll to the third row - the **POWER** **CAMERA FACTORY** menus.

A	U	X	=	S	E	N	D	L	O	C	K	=	E	N	D				
P	O	W	E	R		C	A	M	E	R	A		F	A	C	T	O	R	Y

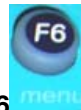
## Turning NightShot ON or OFF

**NOTE:** NightShot is only available with PTZ domes that have TDN cameras. You can also access this function via the OSD. See the [ACUIX Installation and Configuration Guide](#) for more information.

1. Press **AUX** to toggle between NightShot mode **ON** and NightShot mode **OFF**.
2. Press **LOCK** to exit the menu.

## Turning the IR Lamp Setting ON or OFF

**NOTE:** If the system uses IR lamps, set the IR lamp setting to **ON**. The PTZ dome will switch to mono in low light conditions without integrating in colour first.



1. Press **and hold LOCK**, then press **F6**.  
The **HOME, PRIVACY, RESET** menu displays and **HOME** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D	
H	O	M	E	P	R	I	V	A	C	Y	R	E	S	E	T

2. Use the joystick down or **F2 ▼** to scroll to the next menu options.  
**ZOOM/IR LAMP/AUTO180** displays on the LCD.

3. Select **IR/LAMP** from the LCD menu.

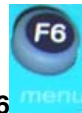
A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
Z	O	O	M	I	R	/	L	A	M	P	A	U	T	O	1	8	0

4. Press **AUX** to toggle the IR lamps setting between **OFF** and **ON**.
5. Press **LOCK** to exit the menu.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
I	R	\	L	A	M	P	S	O	F	F				



## Turning PTZ Dome Digital Zoom ON or OFF



1. Press **and hold LOCK**, then press **F6**.

The **HOME, PRIVACY, RESET** menu displays and **HOME** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
H	O	M	E		P	R	I	V	A	C	Y		R	E	S	E	T

2. Use the joystick down or **F2 ▼** to scroll to the next menu options.

**ZOOM/IR LAMP/AUTO180** displays on the LCD.

3. Select **ZOOM** from the camera setup menu

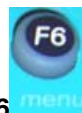
A	U	X	=	S	E	T	L	O	C	K	=	E	N	D					
Z	O	O	M		I	R	/	L	A	M	P		A	U	T	O	1	8	0

4. Press **AUX** to toggle the digital zoom setting between **OFF** and **ON**.

5. Press **LOCK** to exit.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D					
D	I	G	I	T	A	L		Z	O	O	M		O	F	F				

## Turning Auto 180° ON or OFF (PTZ)



1. Press **and hold LOCK**, then press **F6**.

The **HOME, PRIVACY, RESET** menu displays and **HOME** flashes on the LCD.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D			
H	O	M	E		P	R	I	V	A	C	Y		R	E	S	E	T

2. Use the joystick down or **F2 ▼** to scroll to the next menu options.

**ZOOM/IR LAMP/AUTO180** displays on the LCD.

3. Select **AUTO180** from the LCD menu.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D					
Z	O	O	M		I	R	/	L	A	M	P		A	U	T	O	1	8	0

4. Press **AUX** to and select Auto 180 **OFF** or **ON** from the LCD menu.

5. Press **LOCK** to exit the menu.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D					
A	U	T	O	1	8	0		O	F	F									



## Using the HJZTP Controller - An Overview

Before you begin configuring and using the controller with PTZ domes, multiplexers and DVRs, you need to learn how to use it to access the LCD menus.

---

**NOTE:** To distinguish between pressing a key on the controller and entering a command to access the LCD menus, instructions to press keys are bolded and in capital letters, For example, press **LOCK**. Instructions to access LCD menu options have a box around the text. For example, select **KEYBRDTYP** from the LCD menu.

---

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## ACUIX PTZ Feature Descriptions and Terminology

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See [Appendix A: Glossary](#) for a list of features and terminology available and used with an ACUIX PTZ dome, Refer to the [ACUIX Installation and Configuration Guide](#) for detailed instructions to use or configure each of these features if these instructions do not address your requirement.

---

## About User Levels I and II Access to the Controller

---

There are two levels of access to the HJZTP(X) controller. One allows full use and access to all administrative functions and one only permits the control connected hardware (DVRs, PTZ domes and multiplexers).

- **U1 (User Level 1)** is the administrator level which allows full access to all the features and configuration of the controller.  
The PIN to lock and unlock the controller is **9078**.  
The PIN to navigate the keyboard setup menu is **4769** in the section [Configuring the HJZTP Controller](#) starting on [page 27](#).
- **U2 (User Level 2)** only allows limited control by the user.  
The PIN to unlock the controller is **3434**.

---

## Unlocking and Locking the Controller

---

If the controller is locked, **LOCK** is lit on the controller and **LOCKED** displays on the LCD.

### Unlocking the Controller

1. Press **and hold LOCK**.
2. While holding down **LOCK**, enter the four digit PIN:
  - a. **9078** U1 (administrator), or
  - b. **3434** U2 (user).

---

**NOTE:** If the controller is in U1 mode, and **LOCK + 3434** is entered, the controller is automatically put into U2 mode.

---

### Unlocking the Non Fusion DVR and Entering PIN Numbers

- Press **and hold F6** - or any of the following keys -, then enter the PIN number.



### Locking the Controller

Follow the same procedure as when you unlock the controller.

---

## LCD Display Overview

---

The LCD display shows information about the current operating state of the controller. It is either in PTZ, DVR, or MUX (multiplexer) mode as set in the following sections.

## DVR/PTZ Control Mode LCD Display

If the controller is operating in **DVR MODE** , the following menu displays:

C	A	M	E	R	A		n	n	n		D	V	R		n	n			
P	R	E	S	E	T		n	n	n										U n

**CAMERA nnn** is the PTZ dome (camera) number. **nnn** is the dome number sent telemetry control data/instructions from the controller.


**DVR nn** is the DVR under control by the user; **nn** is the assigned DVR number.

**PRESET nnn** is a user assigned preset number. This is displayed if the controlled dome is at a user assigned preset number **nnn**.

**NOTE:** PRESET nnn is not displayed when in MAXPRO-mode protocol.

**Un** is the user control level 1 (U1) or 2 (U2).

## Multiplexer (MUX) Control Mode LCD Display

If the controller is operating in **MUX (multiplexer) MODE** , the following menu displays:

C	A	M	E	R	A		n	n	n		M	U	X		n	n			
P	R	E	S	E	T		n	n	n		S	P	O	T		n			U n

**CAMERA nnn** is the PTZ dome (camera) number; **nnn** is the dome number that is sent telemetry control data/instructions from the controller.

**MUX nn** is the multiplexer under control; **nn** is the assigned multiplexer number.

**SPOT n** is the spot monitor number. When the controller is controlling the multiplexers main monitor **MAIN** is displayed instead.

**Un** is the user control level 1 (U1) or 2 (U2).

---

## Controller Key Functions and Layout

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**NOTE:** Depending on the operation mode you are in (DVR, PTZ or MUX), the controller keys have different functions.

---

The figures and instructions below describe the common uses for each key on the controller keyboard. For example, the number, function and LOCK keys perform the same in every mode. Conversely, the preset keys are only used when in PTZ mode.

### About the Joystick Functions

Use the joystick to control the pan and tilt functions of the PTZ dome. Tilt the joystick up or down and left and right to pan. Rotate the top of the joystick clockwise to zoom in and counter-clockwise to zoom out.

The speed of pan and tilt is relative to the amount of movement applied to the joystick.

- The maximum pan speed can be between 120×, 240×, or 480× per second.
- The maximum tilt speed is one-half the maximum pan speed.
- If the maximum pan speed is set to 240× per second, the maximum tilt speed is set to 120× per second.

If the pan and/or tilt functions of the ACUIX are reversed through the on-screen setup menus (Pan Reverse or Tilt Reverse is enabled), joystick up performs tilt down, joystick down performs tilt up, joystick left performs pan right and joystick right performs pan left.

Figure 10: Controller Layout (Left-hand Side)







Figure 11: Controller Key Layout (Center)



Figure 12: Controller Layout (Right-hand Side)





**Table 5: List of Key Functions**

Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>F1▲ , F2▼</b> <b>F3◀, F4▶</b>  	10	All	To navigate menus <b>up</b> (F1) and <b>down</b> (F2) or <b>left</b> (F3) and <b>right</b> (F4).
		DVR	Set the screen layout of the multi-camera displays. Press <b>F5</b> and then <b>F1, F2, F3 or F4</b> to select an active cameo. Press the number keys to enter a camera number. Press <b>CAMERA</b> .  Press <b>F3</b> and <b>F4</b> to cycle through the available list of cameras when displaying 2x2 and 3x3 displays.
		MUX	To enter the multiplexer set-up menu press <b>F1</b> twice. To enter the multiplexer bottom menu press <b>F2</b> twice.  Press <b>F1, F2, F3 or F4</b> in live screen mode to select a camera image. Then press <b>F5</b> to open the LCD menu.
<b>F5 (enter)</b> 	10	All	To enter or set a command in a menu or list.
		DVR MUX	Set the screen layout of the multi-camera displays. Press <b>F5</b> and then <b>F1, F2, F3 or F4</b> to select an active cameo. Press the number keys to enter a camera number. Press <b>CAMERA</b> .
<b>F6 (menu)</b> 	10	All	To open, escape or exit the LCD menu.
		MUX	To put the multiplexer back to main monitor control: After pressing a number (1 to 4) and then <b>MONITOR</b> (to select an auxiliary monitor for control by the keyboard), press F6, DISPLAY, ALARM or PLAY.
		DVR	To enter a set of numbers, press <b>and hold F6</b> followed by a number or series of number keys.
number keys <b>0 to 9</b>	10	All	To enter a PIN, assign or select a PTZ, DVR or multiplexer number.
		DVR	Press <b>the number keys</b> to enter a camera number then press <b>CAMERA</b> to display a full-screen on the DVR output. This also selects the associated DVR.  Press <b>the number keys</b> then press <b>FN</b> to select a DVR to control. This also selects the last camera controlled on that DVR (or the first camera input on that DVR if previously not selected).
		MUX	Press a <b>number (1 to 4)</b> , then press <b>MONITOR</b> to select the auxiliary monitor to control.  Press <b>the number keys</b> then press <b>CAMERA</b> to select a camera to display. This also selects the associated multiplexer.







Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>ALARM</b>	12	DVR	To unlock a DVR with a user PIN (password), press <b>and hold ALARM</b> followed by a number or series of number keys.  If an alarm is active, press <b>ALARM</b> to reset the DVR outputs (including internal buzzer). If the DVR is in the live monitoring mode (and no alarm is active), press <b>ALARM</b> to display the event log.
		MUX	After pressing a number (1 to 4) and MONITOR to select an auxiliary monitor for control by the keyboard, press F6, DISPLAY, <b>ALARM</b> or PLAY to put the multiplexer back to main monitor control.
<b>AUTO 180°</b>	12	PTZ	To view a person walking underneath the dome and to pan the dome 180° at the maximum speed.
<b>AUTOPAN</b>	12	PTZ	To define, start or stop mimic tours or preset tours.
<b>AUX</b>	10	All	To enter or move through a menu.
		PTZ	When using the LCD to program presets, preset tours and sectors, press <b>AUX</b> in list menus to display the next page of items (if available).  If the receiver has a separate momentary function (auxiliary), press <b>0</b> (zero), then press <b>and hold AUX</b> to activate the function. Release to turn off.  <b>MAXPRO MODE ONLY:</b> Press <b>AUX</b> to toggle the camera between NightShot mode ON and OFF.
<b>CAMERA</b>	10	All	Press the number keys to enter a camera number then press <b>CAMERA</b> for full-screen display on the DVR output. This also selects the associated DVR or multiplexer. Press <b>CAMERA</b> by itself to increment the camera selection by one.
		PTZ	When using the LCD to program presets, preset tours and sectors, press <b>CAMERA</b> or <b>PRESET</b> to scroll through all available characters.
<b>COUNTER</b>	10	DVR <b>U1/U2 access</b>	Press <b>COUNTER</b> to toggle the DVR display ON And OFF and display the remaining storage capacity.
		PTZ	When using the LCD to program presets, preset tours and sectors, press <b>COUNTER</b> to alternate between upper case and lower case letters.  If symbols are displayed and <b>COUNTER</b> is pressed, the selection jumps to lower case 'a'. When letters are displayed, press and hold <b>FN</b> , then press <b>COUNTER</b> to jump to symbol characters.





## HJZTP(X) Controller Installation and User Guide

Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>DISPLAY</b> 	12	MUX	<p>To select the next display setting (in the cycle of 4x4, 3x3, 2x2 and PIP for a 16 way multiplexer, 3x3, 2x2 and PIP for a 9 way multiplexer or 2x2 and PIP for a 4 way multiplexer).</p> <p>In combination with the FN key, to cycle through the other PTZ domes when displaying 2x2 and 3x3 displays.</p> <p>After pressing a number (1 to 4) and MONITOR to select an auxiliary monitor for control by the keyboard, press F6, <b>DISPLAY</b>, ALARM or PLAY to put the multiplexer back to main monitor control.</p>
<b>FF</b> (fast forward) a	12	DVR <b>U1</b> access	<p>To go forwards during recording and playback. Press <b>RW</b> or <b>FF</b> up to four times to reach the maximum rewind or fast forward speed.</p> <p>To unlock a DVR that has an enabled user PIN (password): Press <b>and hold RW</b> or <b>FF</b> then enter a number or series of number keys.</p>
<b>FOCUS +</b> <b>FOCUS -</b>	11	PTZ	To manually focus the PTZ lens when you zoom in and out. The dome automatically changes to manual focus mode if one of these two keys is pressed.
<b>AUTO FOCUS</b>	11	PTZ	<p><b>VCL protocol:</b> Set auto focus using the OSD. The auto focus can be set to come on when the zooming in or when the dome undertakes a pan, tilt or zoom action. When the zoom is changed it must automatically focus; optionally when pan, tilt or zoom is changed it must also auto focus.</p> <p><b>MAXPRO-mode protocol.</b> Not available. You must set auto focus control using the OSD menu so that auto focus works when the lens is zoomed or when the PTZ dome is panned, tilted or zoomed.</p>
<b>FREEZE</b> 	12	PTZ	<b>VCL protocol only:</b> To toggle between freezing the current image display and returning to a live image.
		DVR MUX	Press <b>FREEZE</b> to suspend the current display. Press <b>FREEZE</b> again to return to the 'live' picture(s).




## HJZTP(X) Controller Installation and User Guide

Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>JOYSTICK</b>	11	All	To control the pan and tilt functions of the PTZ dome: Tilt the joystick up or down or move the joystick left and right to pan.  Rotate the top of the joystick clockwise to zoom in and counter-clockwise to zoom out. Also see <a href="#">About the Joystick Functions above</a> .
		DVR <b>U1 access</b>	During recording and playback: Fn + joystick right/left shuttles forwards and backwards. Fn + joystick up/down jogs forwards and backwards.
<b>LCD</b>	11	All	Displays the status of the PTZ, DVR or MUX under control and provides access to the configuration menus.
<b>LOCK</b>	10	All	To log into (unlock) the controller or DVR. To lock the controller keyboard.  Press <b>LOCK</b> to exit OSD and LCD menus and return the dome and controller to normal operation.
		PTZ	To enter the LCD camera setup menu, press <b>and hold LOCK</b> then press <b>F6</b> .  When using the LCD to program presets, preset tours and sectors, press <b>LOCK</b> to exit OSD and LCD menus and return the dome and controller to normal operation.
<b>MONITOR</b>	10	All	When you press a number (1 to 4) and then press <b>MONITOR</b> , you select the auxiliary monitor for control and the spot monitor number is displayed on the LCD. If you press <b>MONITOR</b> without first entering a number, the controller goes back to the main monitor and <b>MAIN</b> displays on the LCD.
		PTZ	When using the LCD to program presets, preset tours and sectors, press <b>MONITOR</b> to send a backspace command to the dome and delete the last character.  Press and hold <b>FN</b> then press <b>MONITOR</b> to send the space character. The space character is also the character between 'Z' and 'a' when scrolling through the characters.
		DVR	Press <b>MONITOR</b> then <b>SEQUENCE</b> to put the spot monitor into a camera sequence.
<b>MODE</b> 	12	DVR MUX PTZ	To select the operation mode. PTZ domes can be controlled while the controller is in any mode. DVR  ; MUX  ; PTZ 

Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>PLAY (pause)</b> 	12	MUX	<p>Press <b>PLAY</b> to select the multiplexer input for display. Press <b>PLAY</b> again to return the multiplexer to live picture(s).</p> <p>After pressing a number (1 to 4) and MONITOR to select an auxiliary monitor for control by the keyboard, press F6, DISPLAY, ALARM or <b>PLAY</b> to put the multiplexer back to main monitor control.</p>
		DVR <b>U1 access</b>	<p>To play or pause a recording.</p> <p>Press <b>PLAY</b> to select the DVR input for display. Press <b>PLAY</b> again to return the DVR to live picture(s).</p> <p>To enter a set of numbers, press <b>and hold PLAY</b> followed by a number or series of number keys.</p>
<b>PRESET</b>	10	PTZ	To program or access preset tours. However, it is recommended you use the ACUIX OSD to program presets (it is easier).
<b>PRESETS 1 to 4</b>	11	PTZ	To go to the user defined preset locations numbered 1 to 4.
<b>REC (record)</b> 	12	DVR <b>U1 access</b>	<p>To record an image to the DVR.</p> <p>To unlock a DVR that has an enabled user PIN (password): Press <b>and hold REC</b> followed by a number or series of number keys.</p> <p>FN + REC = a DVR panic record</p>
		DVR <b>U1 access</b>	<p>To go backwards during recording and playback. Press <b>RW</b> or <b>FF</b> up to four times to reach the maximum rewind or fast forward speed.</p> <p>To unlock a DVR that has an enabled user PIN (password): Press <b>and hold RW</b> or <b>FF</b> then enter a number or series of number keys.</p>
<b>RW (rewind)</b> 	12	DVR <b>U1 access</b>	<p>To go backwards during recording and playback. Press <b>RW</b> or <b>FF</b> up to four times to reach the maximum rewind or fast forward speed.</p> <p>To unlock a DVR that has an enabled user PIN (password): Press <b>and hold RW</b> or <b>FF</b> then enter a number or series of number keys.</p>
		DVR <b>U1 access</b>	<p>To go backwards during recording and playback. Press <b>RW</b> or <b>FF</b> up to four times to reach the maximum rewind or fast forward speed.</p> <p>To unlock a DVR that has an enabled user PIN (password): Press <b>and hold RW</b> or <b>FF</b> then enter a number or series of number keys.</p>
<b>SEARCH</b> 	12	MUX <b>U1 access</b>	Press <b>SEARCH</b> to select the zoom mode. Once in zoom mode, press <b>SEARCH</b> again to exit. When in zoom mode, use these keys to navigate around the zoomed areas. F1▲, F2▼ for up and down; F3◀; F4▶ for left and right; F5 to zoom in, and F6 to zoom out.
		DVR <b>U1 access</b>	<p>To unlock a DVR that has an enabled user PIN (password), press <b>and hold SEARCH</b> followed by a number or series of number keys.</p> <p>Press <b>SEARCH</b> to search a DVR recording. Press <b>SEARCH</b> again to exit.</p>

## HJZTP(X) Controller Installation and User Guide

Key (alphabetical)	See Figure	Mode	List of Major Functions
<b>SEQUENCE</b>	10	DVR MUX	To put the multiplexer or DVR output into a sequence (the sequence depends on the current display mode and set-up). If <b>SEQUENCE</b> is pressed again, the sequence stops (displaying the current step in the sequence).
		PTZ	When using the LCD to program presets, preset tours and sectors, press <b>SEQUENCE</b> to send a save command to the dome.
<b>STOP</b> 	12	DVR <b>U1</b> access	To stop playback of a recording.
<b>WASH</b>	10	PTZ	When using the LCD to program presets, preset tours and sector, press <b>WASH</b> to insert a line in a Preset tour.  If the receiver under control has this function, press and hold <b>WASH</b> to activate. Release to turn off the washer. If the receiver has a separate momentary function (auxiliary), press <b>0</b> (zero), then press <b>and hold AUX</b> to activate the function. Release to turn off the function.
<b>WIPE</b>	10	PTZ	When using the LCD to program presets, preset tours and sectors, press <b>WIPE</b> to delete a line in a Preset tour.  If the receiver under control has this function, press <b>WIPE</b> to activate. Press <b>WIPE</b> again to turn off. If the receiver has a separate momentary function (auxiliary), press <b>0</b> (zero), then press <b>and hold AUX</b> to activate. Release to turn off the function

## Accessing the Multiplexer Set-up Menus

### Entering the Multiplexer Top Set-up Menu

To enter the multiplexer set-up menu press **F1 ▲** twice to display:

Live	Playback	Preview	Setup	Cancel
------	----------	---------	-------	--------



Use **F3 ◀** or **F4 ▶** to select **Setup** and then press **F5** .

Press **F1 ▲**, **F2 ▼**, **F3 ◀** or **F4 ▶** to move around the menu pages.

Press **F5** to select an option within the menus.

To exit the menus select **Exit** and then press **F5**.

### Entering the Multiplexer Bottom Set-up Menu

To enter the multiplexer bottom menu press **F2 ▼** twice to display:

Full	2x2	3x3	4x4	PIP
User Def1	User Def2	User Def3	User Def4	Cancel

Press **F1 ▲**, **F2 ▼**, **F3 ◀** or **F4 ▶** to select the required option and then press **F5**.

### Entering the Multiplexer Pop-Up Menu

Pressing **F1 ▲**, **F2 ▼**, **F3 ◀** or **F4 ▶** in live screen mode selects an image (the image has a red border around it).

Once the required image is selected, press **F5** to display a pop-up menu similar to that below. Press **F1 ▲** and **F2 ▼** to select a menu option, then press **F5** to select.

Live Cam Change
Zoom
Full
Priority On
Histogram On
Panic Record On
Freeze On
Sequence
Utilities
Cancel





## Using the HJZTP – All Modes

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**NOTE:** Most LCD menus are available only to U1 administrators. See [About User Levels I and II Access to the Controller on page 35](#).

**NOTE:** To distinguish between pressing a key on the controller and entering a command to access the LCD menus, instructions to press keys are bolded and in capital letters, For example, press **LOCK**. Instructions to access LCD menu options have a box around the text. For example, select **KEYBRDTYP** from the LCD menu.

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Use the joystick and function keys to navigate the LCD menus as described in [Using the HJZTP Controller - An Overview starting on page 35](#). The instructions in this section only show how to configure the PTZ domes using the controller LCD menus.

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## Task-based Instructions

The following instructions are task-based. Under each task the three modes (PTZ, DVR or MUX) instructions are indicated.

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**NOTE:** Not every task listed is available for every mode.


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## Selecting the Mode of Operation (DVR/MUX/PTZ)

### About the PTZ Mode and Controlling Domes

PTZ domes can be controlled in any mode (DVR, MUX or PTZ). The controller sends out standard telemetry to a dome or any other connected receiver via the RS485 connection.

When you are in PTZ mode (the LED next to the PTZ symbol  is lit on the controller), you can change the controlled dome without changing the displayed dome. If the DVR or multiplexer is showing a camera sequence, then the displayed camera may be different to the controlled camera.

---

**NOTE:** The ACUIX series PTZ domes can also be configured using the HJZTP(X) controller and a monitor to access the on-screen display (OSD) menus. Detailed instructions using this method are described in the [ACUIX Installation and Configuration Guide](#).


## HJZTP(X) Controller Installation and User Guide

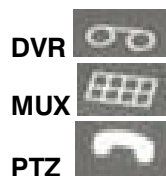
The way the controller selects domes changes when you are in PTZ mode:

**If PTZ Mode is OFF** (PTZ LED OFF) — when you select a dome to control, a full screen picture from that dome is displayed on the DVR (in DVR mode) or Multiplexer (in MUX mode).




**If PTZ Mode is ON** (PTZ LED ON)—you select domes to control without changing the monitor display.

### Selecting a Mode of Operation (DVR/MUX/PTZ)

1. Press the **MODE**  key on the controller.
2. Continue to press **MODE** until the LCD lights up next to the mode:



### Switching to PTZ Mode when in DVR or MUX Mode

1. To switch to **PTZ** mode while using the DVR or multiplexer, press **and hold** the  **FN** key, then press **MODE**  to toggle through the modes until the LCD is lit beside the PTZ symbol .
2. To disable the PTZ mode, repeat step 1.


---

## Selecting the PTZ, DVR or Multiplexer to Control

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### Selecting the DVR or Multiplexer to Control

1. Press the number keys on the controller and enter the dome number.

2. Press **FN**  to select the last PTZ dome controlled on that DVR or multiplexer. If a dome has not been selected previously, the first dome input on that DVR or multiplexer is selected.

### Selecting a PTZ Dome to Control (Non Fusion DVRs / Multiplexers)

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**NOTE:** The dome displayed on the controller LCD display is the controlled dome. The dome under control can be changed independently of the DVR or multiplexer by switching the controller to PTZ mode.

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



For multiplexers, dome selection is performed on the monitor currently under control (Main or Spot 1 to 4).

1. Press the number keys on the controller and enter the dome number.
2. Press **CAMERA** to select that PTZ dome and the associated DVR or multiplexer for full-screen display on the DVR output or on the monitor. You can also press **CAMERA** by itself to increment the dome selection by one.

## Selecting the Auxiliary Monitor (Multiplexers)

1. Press the number keys on the controller and enter the dome number.
2. Press **MONITOR** to select the auxiliary monitor for control. The spot monitor number is displayed on the LCD. You can also press **MONITOR** without first entering a number to return the control to the main monitor. In this case, **MAIN** displays on the LCD.

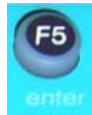


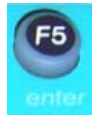
Also press **F6** , **DISPLAY** , **ALARM**  or **PLAY**  to put the multiplexer back into main monitor control.

---

## Selecting an Active Cameo (Non Fusion DVRs)

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1. Press **F5** .
2. Press **F1▲**, **F2▼**, **F3◀** or **F4▶** to select an active cameo.
3. Press the number keys on the controller and enter the dome number.
4. Press **CAMERA** to select the PTZ dome (camera) to be displayed in that cameo.

---

## Displaying Multi-Camera Display Options (Non-Fusion DVRs)

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1. Press **DISPLAY** .
2. Press **DISPLAY** again to cycle through the options of 4x4, 3x3, 2x2, or PIP. Press **F3◀** or **F4▶** to cycle through the other PTZ domes when displaying the 2x2 and 3x3 options.

---

## Selecting the DVR Sequence (Non-Fusion DVRs)

---

1. Press **SEQUENCE** to put the DVR output into a sequence. The sequence depends on the current display mode and set-up.
2. Press **SEQUENCE** again to stop the sequence and display the current step in the sequence.

---

## Flashing Back to a Scene of Interest

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- Press **and hold FN**  and then press **F3** ◀.

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## Recording (U1 Only)

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### Recording to the Non-Fusion DVR

1. Press **REC**  to start a recording.
2. **FN**  + **REC**  creates a panic record on the DVR.

### Instant Recording (Fusion)

The function can toggle Instant Record on specified channel. Press a number key which presents for the specified channel followed by the **INSTANT RECORD** key on the Fusion DVR to toggle on a specified channel.


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## Playing, Pausing and Searching


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### Playing, Pausing and Searching with Non-Fusion DVRs





#### Freezing the Picture (U1 and U2 Access)

1. Press **PLAY** .
2. Press **PLAY** again to return to the live picture.



#### Opening the Search Menu (U1 Only)

1. Press **SEARCH** .
2. Press **SEARCH** again to exit.

## Rewinding and Fast Forwarding (U1 Only)



-  **RW** rw
 To reach the maximum **rewind** speed, press **RW** up to four times.
-  **FF** ff
 To reach the maximum **fast forward** speed, press **FF** up to four times.
-  **FN** Fn
 If the DVR is in playback mode, press **and hold FN** and move the joystick **right to play forwards** or **left to play backwards**. The more the joystick is moved the faster the video is played. If the joystick is returned to the centre position or **FN** is released, the shuttle is returned to the centre position and the playback is paused.
-  **FN** Fn
 If the DVR is paused in playback mode, press **and hold FN** and move the joystick **up to play forwards** image-by-image or **down to play backwards** image-by-image in increments of 0.5 seconds

## Playing, Pausing and Stopping a Recording (U1 Only)

-  **PLAY** play
 Press **PLAY** to play or pause a recording or playback.
-  **STOP** stop
 Press **STOP** to stop a recording or a playback.

## Playing, Pausing and Searching with Fusion DVRs

### Rewinding and Fast Forwarding

-  **RW** rw
 Press **RW** to play backwards during a search. To reach the maximum **rewind** speed, press a number key (1 to 8) and then press **RW**. The number represents the speed where 1 is the slowest and 8 is the fastest.
-  **FF** ff
 To reach the maximum **fast forward** speed, press a number key (1 to 8) and then press **FF**. The number represents the speed where 1 is the slowest and 8 is the fastest.

## Starting and Stopping Playback



- Press **PLAY** to play forwards in a search. You can also press a number key (1 to 8) followed by **PLAY** to fast forward. For example: 1+**PLAY** plays forward at speed 1, 2+**PLAY** plays forward at speed 2.



- Press **STOP** to halt play.

## Playback (Fusion)

### Method 1:



1. Press **SEARCH**.
2. Press one or two of the number keys then press **CAMERA** to select the channel to play.



3. Press **PLAY** to play forward or press **RW** to play backward.

### Method 2:



1. Press **SEARCH**.
2. Press one or two of the number keys then press **CAMERA** to select the channel to play.



3. Press **FF** to display the menu of the date to configure.
4. Use **F1▲**, **F2▼**, **F3◀** or **F4▶** to navigate the date menu.



5. Press **PLAY** to play forward or press **RW** to play backward.

## Auto Sequencing

- Press **SEQUENCE** to toggle auto sequence ON or OFF.

## Displaying the Available Non-Fusion DVR Storage Capacity

**NOTE:** Both U1 and U2 users can access this menu.

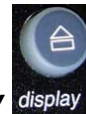
Press **COUNTER** to toggle between displaying and not displaying the remaining storage capacity on the LCD.

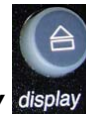
## Display Options

### Displaying and Adding a PTZ Dome to a Spot Monitor (Non-Fusion)


1. Press **MONITOR**.
2. Press the applicable number keys to enter the PTZ dome number.
3. Press **CAMERA** to select the PTZ dome to display on the spot monitor.
4. Press **MONITOR** then **SEQUENCE** to add the spot monitor into a PTZ dome sequence.

### Displaying a Grid Format on a Fusion DVR




You can cycle between different DVR display grids by pressing **DISPLAY** . The available grid displays are 4A, 4B, 4C, 4D, 9A, 9B and 16 configurations.



- Press **DISPLAY** . The DVR rotates to the next grid display. For example: if the current grid display is 4B, the DVR changes to the 4C grid display.
- You can also press one or two of the number keys followed by **DISPLAY**



 to change directly into any kind of grid display. For example:

Key	Grid Display Format
41 + display	4A grid display
42 + display	4B grid display
43 + display	4C grid display
44 + display	4D grid display
91 + display	9A grid display
92 + display	9B grid display
16 + display	16 grid display

## Displaying a Full Screen/Instant Record on a Fusion DVR

- Press the number key for a specified channel then press **CAMERA**.

---

## Configuring the Date and Time for Playback on a Fusion DVR

---

1. When the DVR is in the search play mode and is the channel to play is configured press **SEQUENCE** to display the date and time menu.
2. Enter the new date and time.

---

## Finding the PTZ Dome Mechanical Home

---

### Finding Home Using the Function Key

The dome locates other referenced positions (such as presets) using a mechanical home (or index) position as a reference point. The dome also needs to locate the mechanical home/index position before responding to the first pan, tilt, and zoom command.



Press **and hold FN**, then press **F1▲** to go to the dome mechanical home.



## Programming Presets and Preset Tours

---

**NOTE:** These menus are only available to Administrative (U1) users. After one minute of controller inactivity, the controller shuts down the menus.

---

The instructions in this section are specific to using the controller LCD and keys to access programming options directly on the HJZTP(X).

If required, refer to the [ACUIX Installation and Configuration Guide](#) for detailed instructions using the OSD and special presets. Also see [ACUIX Special Presets](#).

---

## Programming Privacy Zones

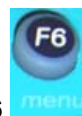
---

**NOTE:** Although it is possible to program privacy zones using the HJZTP(X) controller, it is recommended that you follow the instructions in the [ACUIX Installation and Configuration Guide](#) as this is easier and more accurate.

---

## Opening the LCD Setup Menu to Program Presets and Tours

---



1. Press **and hold LOCK** then press **F6**.
2. The **SETUP** menu opens and **SETUP** flashes on the LCD. Use the joystick left and right or F3◀ and F4▶ to navigate to one of the LCD menus: **SETUP**; **PRES** preset; **VECT** preset tours; **SECT** sector.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
S	E	T	U	P	P	R	E	S	V	E	C	T	S	E	C	T

3. Press **AUX** to select the menu or press **AUX** when in a menu list to display the next page of items (when applicable).

.	A	U	X	=	N	E	X	T	P	A	G	E				
	L	O	C	K	=	E	N	D								

---

## Programming, Starting and Listing Presets with the LCD

---

**NOTE:** Although it is possible to program presets using the HJZTP(X) controller, it is recommended that you follow the instructions in the

*ACUIX Installation and Configuration Guide* as this is easier and more accurate.

**NOTE:** These menus are only available in MAXPRO-mode and to Administrative Users (U1).

---

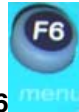
## Programming a Preset Using the LCD

It is easier to use the controller keyboard to program presets. See *Programming and Starting Presets with the Controller Keys on page 61* for instructions using the controller keyboard.

## Starting (Go to) a Preset Using the LCD

It is easier to use the controller keyboard to program, start or go to a preset. See *Starting a Programmed Preset on page 62*.

## Listing Presets on the LCD



1. Press **and hold LOCK** then press **F6**.
2. The **SETUP** menu opens and **SETUP** flashes on the LCD. Use the joystick left and right or F3◀ and F4▶ to navigate to **PRES** preset.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
S	E	T	U	P	P	R	E	S	V	E	C	T	S	E	C	T

3. Press **AUX** to open the **GOTO PROGRAM LIST** preset programming menu.
4. Select **LIST** to list the programmed presets.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
G	O	T	O	P	R	O	G	R	A	M	L	I	S	T

5. Press **AUX** to display the next page (if applicable) or press **LOCK** to exit.

	A	U	X	=	N	E	X	T	P	A	G	E		
	L	O	C	K	=	E	N	D						

---

## Programming, Starting and Listing Preset Tours with the LCD

---

### Programming Preset Tours (Vectorscans) Using the LCD

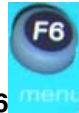
It is easier to use the controller keyboard (or the OSD) to program preset tours. See *Programming Preset Tours (Vectorscans)* for instructions using the controller keyboard.

## Starting (Go To) a Preset Tour Using the LCD

It is easier to use the controller keyboard to go to or start preset tours. See [Starting and Stopping Preset Tours on page 65](#) for instructions using the controller keyboard

## Listing Preset Tours on the LCD

**NOTE:** This LCD menu is only available in MAXPRO-mode and Administrative Users (U1).



1. Press **and hold LOCK** then press **F6**.
2. The **SETUP** menu opens and **SETUP** flashes on the LCD. Use the joystick left and right or F3◀ and F4▶ to navigate to **VECT** (preset tours are also called vectorscans).

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
S	E	T	U	P	P	R	E	S	V	E	C	T	S	E	C	T

3. Press **AUX** to open the **GOTO PROGRAM LIST** preset programming menu.
4. Select **LIST** to list the programmed preset tours.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
G	O	T	O	P	R	O	G	R	A	M	L	I	S	T

6. Press **AUX** to display the next page (if applicable) or press **LOCK** to exit.

	A	U	X	=	N	E	X	T	P	A	G	E		
	L	O	C	K	=	E	N	D						

## Setting a Home Preset or Tour Using the LCD Menus

**NOTE:** First define the Home Preset (preset 0) or Home Tour (tour 1) before proceeding.

1. Select **HOME** from the LCD menu. To set a home preset or a home tour.
2. Press **AUX**.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
P	R	E	S	E	T	T	O	U	R	O	F	F		

3. Select **PRESET** or **TOUR**.
4. Press **AUX**.  
The home time-out LCD menu is displayed where **nnn** is the current time-out in minutes (1 to 127.)

H	O	M	E	L	O	C	K	=	E	N	D			
E	N	T	E	R	T	I	M	E	O	U	T	n	n	n

5. Use the number keys to edit the time.
6. After editing, press **LOCK** to exit the menu.

### Turning off the Home Preset or Home Preset Tour

1. Select **OFF** from the home menu.
2. Press **AUX**.  
**HOME OFF** is displayed for 1 second to confirm the selection:

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
P	R	E	S	E	T		T	O	U	R		O	F	F

---

## Programming and Starting Presets with the Controller Keys

---

**NOTE:** Presets can also be defined using the OSD menus. When presets are defined using the OSD menu, the preset title can also be edited.

---

Also see *Programming Sectors, Mimic Tours and Alarms on page 67*.

### Programming a Preset Using the Controller Preset Keys

Figure 13: Defining Presets with the Controller Preset Keys



#### Method 1 (All Available Presets)

1. For example, to define **Preset 9**, move the selected PTZ dome to the preset position you want to save.
2. Use the joystick, zoom, focus and iris keys to set the preset.
3. Press **and hold** the single **PRESET** key (*Figure 13*). At the same time press **9**.

## HJZTP(X) Controller Installation and User Guide

4. **Release** PRESET.  
The position is programmed as **Preset 9**.

### Method 2 (Presets 1 to 4 only)

1. To define **Presets 1 to 4**, move the selected PTZ dome to the preset position you want to save.
2. Use the joystick, zoom, focus and iris keys to set the preset.



3. Press **and hold** one of the **Preset 1 to 4** keys.
4. **Release** the key.  
The position is programmed as **Preset 1, Preset 2, Preset 3 or Preset 4**.

## Starting a Programmed Preset

---

**NOTE:** You can only start a previously programmed preset.

---

### Method 1 (All Available Presets)

For example, to go to Preset 9, press **9** and then press the single **PRESET** key. The dome moves at the maximum speed to the previously defined Preset 9.

If a preset seek is attempted for a preset number which has not been programmed, the dome does not move, and the message "Does Not Exist" is displayed on screen.

### Method 2 (Presets 1 to 4 only)



- Press one of the Preset keys labelled **preset 1 to 4**.  
The dome moves at the maximum speed to the previously defined preset.

---

## Programming Preset Tours (Vectorscans)

---

The tour is now set with a standard speed of 30°/sec and the dwell time at each preset set to a standard 60 seconds.

Preset Tours 0 and 4 - 9 can be assigned to contacts/alarms or the default function.

### Programming a Simple Preset Tour

---

**NOTE:** You can either include already programmed presets in a tour or program the presets as you create the tour.

---

For example, to program Preset Tour 1 and include previously defined Presets 1, 2, and 9 (without varying the speed or dwell times):

1. On the numeric keypad, press **1** and then press **and hold AUTOPAN** while you add the presets. You are now defining **Preset Tour 1**.
2. Press **1** and then press the **PRESET** key to add Preset 1 to Preset Tour 1.
3. Press **2** and then press the **PRESET** key to add Preset 2 to Preset Tour 1.
4. Press **8** and then press the **PRESET** key to add Preset 9 to Preset Tour 1.
5. **Release AUTOPAN.**  
Preset Tour 1 is programmed and includes Presets 1, 2 and 9.

### Programming the Speed between Presets

For example, to define a preset tour as Preset Tour 2 and include previously defined Presets 1, 2, and 9. This time you are only varying the speed between each preset.

1. On the numeric keypad, press **2**. Then press **and hold AUTOPAN** while you add the presets. You are now defining **Preset Tour 2**.
2. Press **1** and then press **PRESET** to add Preset 1 to Preset Tour 2.
3. Press **5 > 0 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 1 as **50°/sec**.

---

**NOTE:** You can select a range of speeds from 1 = 1°/sec up to 100 = 100°/sec. To select the maximum seek speed, press 0.

---

4. Press **2** and then press **PRESET** to add Preset 2 to Preset Tour 2.
  5. Press **1 > 0 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 2 as **100°/ sec**.
-

## HJZTP(X) Controller Installation and User Guide

6. Press **8** and then press **PRESET** to add Preset 9 to Preset Tour 2.
7. Press **2 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 9 as **2°/sec**.
8. **Release AUTOPAN**.  
Preset Tour 2 is programmed and includes Presets 1, 2 and 9. The speed that the dome moves to each Preset during the tour is defined as **50°/sec (Preset 1); 100°/ sec (Preset 2) and 2°/sec (Preset 9)**.

## Programming Speeds and Dwell Times between Presets

For example, to define a preset tour as Preset Tour 3 and include previously defined Presets 1, 2, and 8. This time you are varying the speed and dwell times between each preset.

1. On the numeric keypad, press **3**. Then press **and hold AUTOPAN** while you add the presets. You are now defining **Preset Tour 3**.
2. Press **1** and then press **PRESET** to add Preset 1 to Preset Tour 3.
3. Press **5 > 0 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 1 as **50°/sec**.

---

**NOTE:** You can select a range of speeds from **1 = 1°/sec** up to **100 = 100°/sec**. To select the maximum seek speed, press **0**.

---

4. Press **1 > 0 > COUNTER**.  
This defines a 10 second dwell time at Preset 1.

---

**NOTE:** You can select a range of dwell times from **1 to 254 seconds**. Entering a time of **0 (zero)** selects a **1 second dwell time**.

---

5. Press **2** and then press **PRESET** to add Preset 2 to Preset Tour 3.
6. Press **1 > 0 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 2 as **100°/ sec**.
7. Press **1 > 6 > COUNTER**.  
This defines a 16 second dwell time at Preset 2.
8. Press **8** and then press **PRESET** to add Preset 9 to Preset Tour 3.
9. Press **2 > AUTO 180°**.  
This defines the speed that the dome moves to Preset 9 as **2°/sec**.
10. Press **1 > 4 > COUNTER**.  
This defines a 14 second dwell time at Preset 9.



11. **Release AUTOPAN.**

Preset Tour 3 is programmed and includes Presets 1, 2 and 9. The speed that the dome moves to each Preset during the tour is defined as **50°/sec (Preset 1)**; **100°/ sec (Preset 2)** and **2°/sec (Preset 8)**.

---

## Starting and Stopping Preset Tours

---

### Starting a Preset Tour



Continuous Preset Tour operation for extended periods of time (> 8 hours) is not recommended. Continuous operation results in increased zoom lens failure and maintenance expense.

---

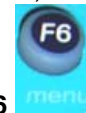
**NOTE:** Preset Tours can also be run from the OSD menus.

---

1. Press the number that corresponds to the preset tour number. For example, press 1 for Preset Tour 1; press 8 for Preset Tour 8.
2. Press **AUTOPAN**.  
The tour starts and runs as programmed. If a preset tour is selected which has not been defined, the dome does not move, and the message **Does Not Exist** displays on screen.

### Stopping a Preset Tour

- Press **AUTOPAN** to stop the tour.
- You can also stop the tour if either the telemetry buttons or the joystick is used to control the PTZ dome.
- Return to Manual Control: The return to manual command is used to cancel automatic dome actions such as Preset Tours, Mimic tours, and contact



(alarm) actions. Press **and hold FN** , then press **F6** , return to manual control [the ESC command].

### Restarting a Preset Tour

- Press **AUTOPAN** to start the previous preset tour.



## Programming Sectors, Mimic Tours and Alarms

---

**NOTE:** Although it is possible to program sectors and mimic tours using the HJZTP(X) controller, it is recommended that you follow the instructions in the *ACUIX Installation and Configuration Guide* as this is easier and more accurate.

---

Also see *Programming Presets and Preset Tours* starting on *page 57*.

---

### Navigating Sector or Mimic Tour LCD Programming Menus

---

When in the programming menu, on the first display the letter **A** flashes to indicate **A** is sent to the domes menu when **AUX** is pressed.

Press **CAMERA** and **PRESET** to scroll through all available characters.


Pressing **COUNTER** jumps the selection between upper case and lower case letters. If a symbol character is being displayed when **COUNTER** is pressed, the selection jumps to lower case a.



Press **and hold FN** , then press **COUNTER** to jump to symbol characters when letter characters are being displayed.

Press **MONITOR** to send a backspace command to the dome and delete the last character.



Press **and hold FN** , then press **MONITOR** to send the space character. The space character is also the character between Z and A when scrolling through the characters.

## Programming Mimic Tours Using the LCD

**NOTE:** Mimic Tours are defined using number keys 5 to 8 and the LCD.

1. Press a **number key** between 5 and 8.
2. Press **and hold** **AUTOPAN**.
3. Press **LOCK**.  
The following LCD menu displays. While the mimic tour is recorded **RECORDING MIMIC n** flashes on and off.
4. **Release** **AUTOPAN** and press **LOCK** to stop recording.

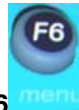
C	A	M	E	R	A	n	n	n	M	U	X	n	n		
R	E	C	O	R	D	I	N	G	M	I	M	I	C	n	

**NOTE:** This menu times out after three (3) minutes unless **LOCK** is pressed. In **DVR mode**, and if it times out, **DVR nn** is displayed.

## Starting a Mimic Tour

1. Press a **number key** between 5 and 8.  
The Mimic Tour must already be programmed.
2. Press **AUTOPAN**.

## Programming Sectors Using the LCD



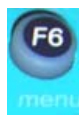
1. Press **and hold** **LOCK** then press **F6**.
2. The **SETUP** menu opens and **SETUP** flashes on the LCD.  
Use the joystick left and right or F3◀ and F4▶ to navigate to **SECT** (sector).

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
S	E	T	U	P	P	R	E	S	V	E	C	T	S	E	C	T

3. The **PROGRAM LIST** menu opens.
4. Select **PROGRAM** to program the sector.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D	
				P	R	O	G	R	A	M		L	I	S	T

## Listing Sectors using the LCD Menu



- Press **and hold LOCK** then press **F6**.
- The **SETUP** menu opens and **SETUP** flashes on the LCD.  
Use the joystick left and right or F3◀ and F4▶ to navigate to **SECT** (sector).

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D		
S	E	T	U	P	P	R	E	S	V	E	C	T	S	E	C	T

- The **PROGRAM LIST** menu opens.

- Select **LIST** to list the sectors.

A	U	X	=	S	E	T	L	O	C	K	=	E	N	D
		P	R	O	G	R	A	M			L	I	S	T

- Press **AUX** to display the next page (if applicable) or press **LOCK** to exit.

		A	U	X	=	N	E	X	T	P	A	G	E		
		L	O	C	K	=	E	N	D						

## Working with Contacts/Alarms (DVRs)

### Toggle the Alarm Out (Fusion DVRs)

The function can toggle contacts (alarms) on a specified channel. Press a number key between 1 and 5 then press **ALARM** to toggle an contact on a specified channel.

### Stopping an Alarm and Displaying an Event (Non-Fusion DVRs)

- If an alarm is active, press **ALARM** to reset the DVR outputs (including internal buzzer).
- If the DVR is in the live monitoring mode (and no alarm is active), press **ALARM** to display the event log. You navigate the event log in the same way as the other LCD menus.
- If the DVR is locked (a password is required), press and **hold ALARM** to open

the PIN screen and enter the PIN. Alternately, press **and hold FN**



followed by the PIN.



# Appendix A: Glossary and ACUIX Special Presets

---

## Glossary

---

### Alarms

See Contacts.

### Camera

The particular model camera purchased. The camera is a component of the scan assembly.

### Contacts (also called Alarms)

The terms contact and alarm are used interchangeably to mean the same thing. Alarm is currently displayed on the ACUIX on-screen display (OSD), accessed using the HJZTP(X) controller. The term contact is a more accurate description as it is not an audible alarm but a change in electrical state to the contacts, which results in a programmed response.

Contacts can detect a door opening or window breakage, for example. Using the OSD, you can program up to four normally open or closed conditions to activate a preset, preset tour, or mimic tour.

### Dome

The complete installed product including the housing, mount, bracket or adapter, lower dome, and the scan assembly.

### Flashback

Use the Flashback feature to toggle between two saved positions and quickly return to a scene of interest.

When you press Flashback, it saves the scene (Scene A) as a Flashback. When you move to the next scene (Scene B) and press Flashback again, it saves Scene B and returns the dome to Scene A. If the operator presses Flashback a third time (without manually moving to a new scene), the dome returns to Scene B. The dome only saves and toggles between two scenes at a time, except when Flashback is used during a preset tour.

### Freeze

See Still Shot.

### Housing

The in-ceiling, indoor or outdoor pendant and surface mount, or rugged upper enclosure. The housing contains the interface board that determines the type of ACUIX installed (analog, digital or fixed). Housing is a hardware component of the dome.

### Lower Dome

The clear or colored enclosure that covers the scan assembly and attaches to the housing. It also includes the trim ring and lower dome liner. The lower dome is a hardware component of the dome.

### Mechanical Home

The dome locates other referenced positions (such as presets) using a mechanical home (or index) position as a reference point. The dome also needs to locate the mechanical home/index position before responding to the first pan, tilt, and zoom command

### Mimic Tours

A mimic tour saves the pan, tilt, and zoom commands performed by a user. When a mimic tour is started, the dome replays the saved commands. A mimic tour is useful when operators are interested in scanning slowly to a particular area on a regular basis. You can program up to 16 mimic tours up to 120 seconds (two minutes) each.

### Mount

The hardware used to mount the housing to the applicable surface (for example, a ceiling or wall). The mount is a hardware component used with a specific type of housing. It may be included with the housing (for example, the rugged or in-ceiling domes), or purchased separately (for example, the indoor or outdoor pendant domes).

### Presets (also called Preshots)

The ACUIX supports up to 132 presets with MAXPRO-mode or 99 presets with VCL protocol. There are two types of presets: (1) A special preset or shortcut to a function, for example, opening the OSD menus and (2) an operator created/programmed set of commands (pan, tilt, zoom, focus, and iris setting). The programmed preset is recalled in response to a contact or set as the default function when the dome is idle for a specified time. Other facts about presets include:

- Individual presets can also be part of preset tours.
- Each preset can have a 24-character alphanumeric name.
- With the ACUIX analog domes, presets are dependent on the protocol being used.
- By default, the preset name/number for configured presets displays in the top left corner of the screen.



## Preset Tours (also called Vectorscans)

With preset tours the dome moves from one preset position to another. During the tour, the dome moves between presets at a set velocity (between 1 to 480 degrees per second) and stays for a specified time interval (the dwell) before moving to the next preset. The dwell time can be set between 1 to 99 seconds.

Up to 16 preset tours, each with up to 64 presets, can be programmed for every dome. Preset tours can be started by an operator, in response to a contact, or programmed as a default function when the dome is idle for a specified amount of time. The preset tours are useful for looking at specific locations like doors and windows or to do a scan of each location for a few seconds before moving on. Operators can run the preset tour once or continuously.

## Preshots

See Presets.

## Privacy Zones

Privacy zones enable operators to restrict the view in a specific area, for example private property, windows visible across alleyways, swimming pools, or dressing rooms. Up to 32 privacy zones can be configured per dome. Another application is if an automated teller machine (ATM) is being monitored. The view of the ATM screen can be restricted by configuring it as a privacy zone.

A mask (a dark colored box) covers the video display when the dome registers a privacy zone. If there is a preset name, it displays over the video display when privacy zones are hidden. Privacy zone data is stored in nonvolatile memory, which saves the data when the dome is not powered. The privacy zones can be password protected by a four digit numeric PIN. The default PIN is 1000.

## PTZ

Abbreviation for Pan, Tilt, Zoom.

## Scan Assembly

The combination of firmware, electrical and mechanical components including the camera and lens. The scan assembly is installed into the housing and enclosed by a lower dome. The scan assembly is a component of a dome.

## Sectors

Sectors are used for labeling up to 16 areas monitored by a dome. For example, when you are monitoring an exit door, you can add a label in the video display as *ExitDoor*. After labeling, whenever the dome is positioned to monitor the exit door, the label *ExitDoor* displays on the monitor.

## HJZTP(X) Controller Installation and User Guide

The sectors can also overlap. If the operator positions the dome where one or more programmed sectors overlap, the dome sequences between the sector titles on the video display for 1.5 seconds per sector.

### Still Shot (also called Freeze)

There are two uses for the Still Shot feature. A freeze-frame of video can be made between the presets in a tour. This freezes the video while the ACUIX dome is moving. This results in an effect similar to a video switcher switching between different cameras.

The operator can freeze the video manually and it remains frozen until the operator unfreezes it.

When the video is frozen, an asterisk displays on the same line as the dome ID, and the video remains frozen on the current scene until the operator unfreezes the video. If the dome ID display is turned off, the asterisk displays by itself.

### Vectorscans

See Preset Tour.

---

## ACUIX Special Presets

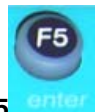
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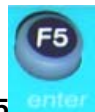
### Accessing Special Presets

- Press [preset number] ► Preset button on the controller.

### Opening the OSD with Special Preset 90

1. To access any preset (special or programmed) press [preset number] ► Preset button on the controller.
2. Enter a password or skip to step 4.
3. If prompted, enter the 4-digit PIN (the default is 1000) to log in as User Level 1. Move the joystick up or down to select numbers for each digit. Move the joystick left or right to move between digits.



4. Press **F5** .
5. Press 90 ► Preset.
6. The OSD display opens on the monitor.

## ACUIX PTZ Dome Special Presets

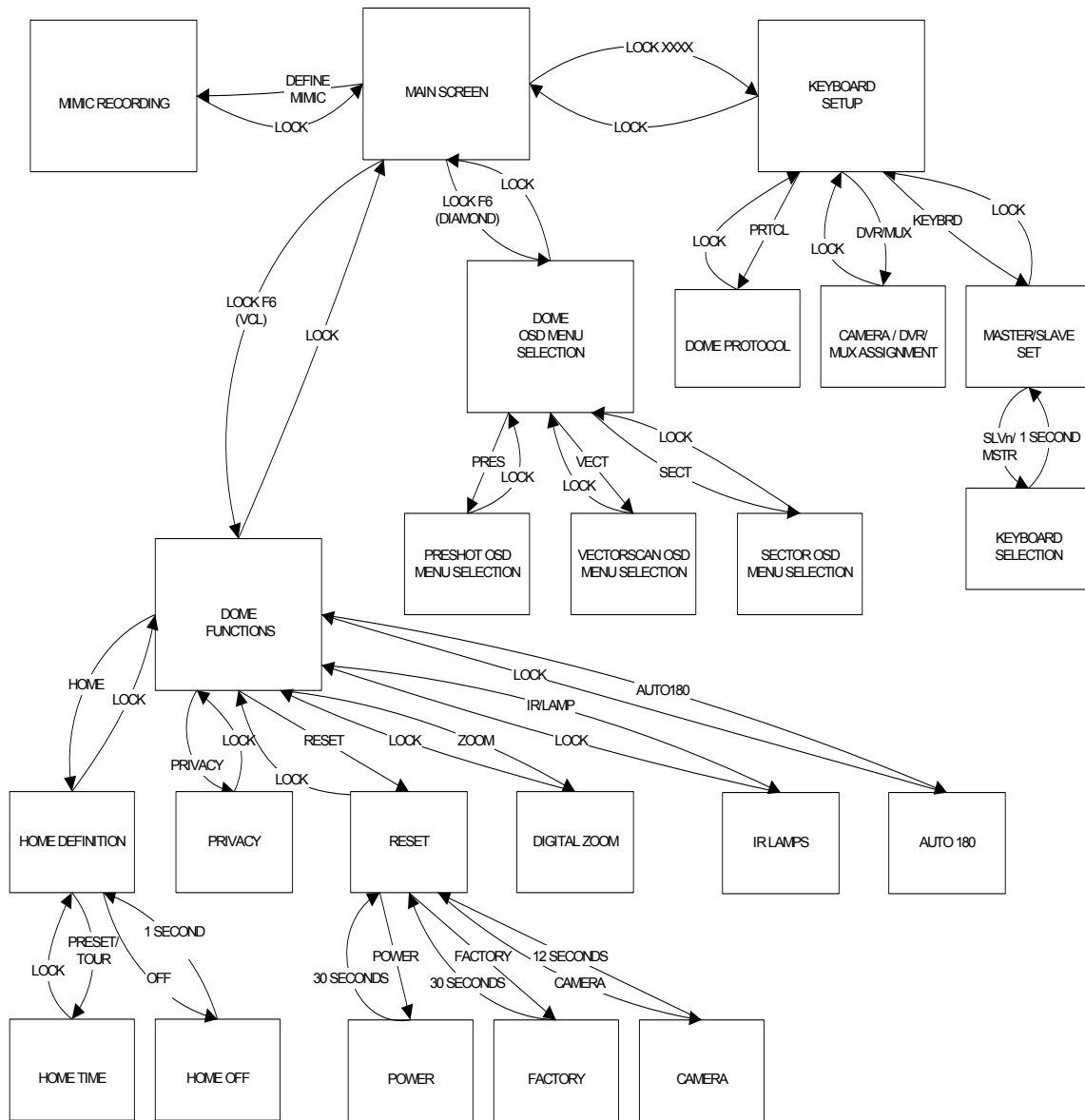
Preset Number	Function
72	Recover encrypted user login PIN and GUID
73	Enable broadcast command receive mode
74	Disable broadcast command receive mode
75	Administrator / password/PIN settings
76	Run Mimic Tour 1 – 16
77	Program Mimic Tour
78	Run Preset Tour 1 – 16
80, 81, 82	Run mimic tours 1, 2 and 3
83, 84, 85	Program mimic tours 1, 2 and 3
86	Stop or end mimic tour programming sequence
87, 88, 89	Start/run preset tours 1, 2 and 3
90	Setup menu (on-screen display/OSD)
92	Toggles auto exposure or iris ON and OFF
93	Toggles backlight compensation ON and OFF (preset 92 /auto exposure must be ON)
94	Toggles between standard operation and NightShot mode (camera dependent)
95	Toggles between freezing and unfreezing the video (camera dependent)
96	Run the Flashback function to toggle between two saved positions and quickly return to a scene of interest.
98	Camera lens reset or cycles the power (camera dependent)



## Appendix B: Specifications and Troubleshooting

<b>Table 6: HJZTP/HJZTPX Specifications</b>		
<b>Features</b>	<b>Description</b>	
Max dome control	128	
Max DVR control	8 x 16 way, 14 x 9 way, 32 x 4 way, 99 x 1 way (or any mixture up to 128 inputs)	
Max multiplexer Control	8 x 16 way, 14 x 9 way, 32 x 4 way (or any mixture up to 128 inputs)	
Compatible DVRs, multiplexers and PTZs	AHDR DVRs, HRHD DVRs, AXCD multiplexers, AXMD multiplexers, Orbiter/RapidDomes, ACUIX, KD6/HD6 domes, Fusion DVRs	
Max linked controllers	1 master and 3 slaves	
RS485 connections	1 half duplex and 2 full duplex	
LCD	2 rows of 20 characters	
DVR / multiplexer functions controllable via HJZTP(X)	<b>DVRs</b>	<b>Multiplexers</b>
	Full screen picture cameras 1 to 16 picture in picture 2 x 2 picture 3 x 3 picture 4 x 4 picture Picture sequence, picture freeze, play, rewind, fast forward, stop, record, panic, spot Shuttle forwards/backwards Jog forwards/backwards Time / counter, alarm cancel Event log menu, search menu, main menu	Full screen picture cameras 1 to 16 Picture in picture 2 x 2 picture 3 x 3 picture 4 x 4 picture Picture sequence Picture freeze 4 Spot monitors Zoom mode Tape input selection Menus
Dome functions controllable via HJZTP(X)	<b>ACUIX, Orbiter/RapidDome domes (VCL protocol)</b>	<b>ACUIX, KD6/HD6 domes (MAXPRO-mode protocol)</b>
	Variable speed pan / tilt via joystick Zoom via twist joystick Focus near, focus far, auto focus Iris open, iris close, auto Iris Colour / mono change-over Auto 180 turn around 128 presets (program and selection) 4 rapid preset selections ( 1 to 4) 4 preset tours (program and selection) 4 mimic tours (program and selection) Privacy zone programming Home preset / tour programming Digital zoom, IR lamp, auto180 setup Power, camera and factory reset Wash, wipe, aux	Variable speed pan / tilt via joystick Zoom via twist joystick Focus near, focus far Iris open, iris close, auto Iris 99 presets (program and selection) 4 rapid preset selections ( 1 to 4) 10 preset tours (selection) NightShot mode, freeze, flashback, home, return to manual  Full control of on screen menus to program presets, preset tours, mimic tours, privacy zones, sectors, and also control all camera setting and diagnostic options.
Dimensions WxHxD	355mm x 180mm x 60mm	
Weight (Approximate)	3.0kg	
Power Supply Provided	12V DC regulated 300mA	
Operating Temperature	0C to 40C	

## LCD Menu Navigation Tree



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## Opening the Camera Reset Menu

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1. Select **RESET** from the camera setup menu.
2. Press **AUX**.  
The **Camera Reset Menu** opens.

A	U	X	=	S	E	N	D	L	O	C	K	=	E	N	D		
P	O	W	E	R	C	A	M	E	R	A	F	A	C	T	O	R	Y

---

## Resetting the Dome

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### Power Reset

1. From the Camera Reset Menu, select **POWER**.

A	U	X	=	S	E	N	D	L	O	C	K	=	E	N	D		
P	O	W	E	R	C	A	M	E	R	A	F	A	C	T	O	R	Y

2. Press **AUX**.  
The controller locks for 30 seconds while the dome resets.
3. When the dome is reset, the message **POWER UP RESET** displays.

### Camera Reset

1. From the Camera Reset Menu, select **CAMERA**.

A	U	X	=	S	E	N	D	L	O	C	K	=	E	N	D		
P	O	W	E	R	C	A	M	E	R	A	F	A	C	T	O	R	Y

2. Press **AUX**.  
The controller locks for 12 seconds while the dome resets.
3. When the dome is reset, the message **CAMERA RESET** displays.

### Resetting to Factory Defaults

1. From the Camera Reset Menu, select **FACTORY**.

A	U	X	=	S	E	N	D	L	O	C	K	=	E	N	D		
P	O	W	E	R	C	A	M	E	R	A	F	A	C	T	O	R	Y

2. Press **AUX**.  
The controller locks for 30 seconds while the dome resets.
3. When the dome is reset to factory defaults, the message **FACTORY RESET** displays.

## Joystick Auto Calibration

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Pressing and holding **LOCK** and pressing F1 ▲ calibrates the joystick centre position. It is important that the joystick is at its centre position when this is performed.

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## Key Test

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Pressing and holding **LOCK** and entering **2323** on the numeric keypad puts the controller into key test mode.

Press each key in sequence from top left to bottom right. A short audible beep is heard each time a key is pressed and again when released. A long error beep is given if any key is pressed out of sequence. The unit automatically exits from the test mode when all buttons have been successfully tested or **ALARM** is pressed.



## Appendix C: Discontinued Product Instructions

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### Reset KD6i/HD6i

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The KD6i/HD6i must be reset through the setup menu. Send the HD6i to Preset 90 to access the setup menus, then access the diagnostics menu, then select the Reset Scan and Camera option.

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### Manual Change Over (RapidDome/Orbiter only)

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The operator can force the camera to change from MONO to COLOUR or COLOUR to MONO by pressing **AUX**. The camera automatically changes back dependant on the level of illumination.

If the camera is in the mode selected by the operator (and is different to the mode that the camera would have automatically selected), **AUX** is illuminated. If the camera is in the mode that the camera has automatically selected, **AUX** is not illuminated.

---

### VCL Data Input Orbiter and Rapid Domes Only

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These VCL commands can be input into the controller using an RS485 connection to the KBD port.

alarm mode off alarm mode on auto focus off auto focus on auto iris off auto iris on automatic mono / colour aux off aux on camera auto alarm seek time camera numbered aux off camera numbered aux on camera setup define home function define sector LHS define sector RHS define tour start define tour stop down down stop focus far focus far stop	focus near focus near stop iris close iris close stop iris open iris open stop kd6_command kd6_send_char lamps off lamps on left left stop numbered aux off numbered aux on privacy zone setup program preset remote reset right right stop seek absolute position seek preset start resume tour or autopan toggle mono / colour tour off	tour point data turn 180 degrees up up stop wash off wash on wipe off wipe on zoom in zoom in stop zoom out zoom out stop  <i>The following commands are ignored:</i> status request camera alarm status request zone status request absolute position request alarm status request global command patrol release RS485 bus
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