

# INSTRUCTIONS



## **5050** **Pan Tilt Zoom Controller**

 CHANNEL VISION™

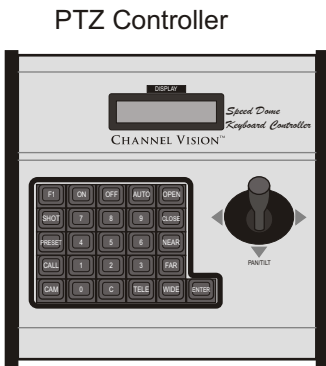
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The **5050** is a Pan Tilt Zoom Camera Controller. It can support multiple PTZ control protocols, making it compatible with Channel Vision's PTZ cameras as well as other high-end surveillance equipment. It can control up to 32 cameras at a distance of 1.2km for easy integration into large commercial systems. The 5050 makes it easy to store automated camera movements and allows instantaneous manual override control via its user-friendly joystick.

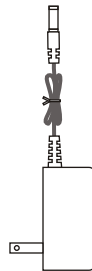
Features:

- Provides manual or automatic control of PTZ cameras
- Joystick allows easy manual control of the camera focus, zoom, and iris
- Supports multiple control protocols including Pelco P and Pelco D
- Stores 128 preset camera locations
- Records up to 6 different camera tours

The 5050 PTZ Controller Includes:



Power Supply



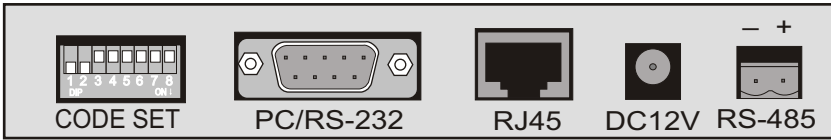
Accessories:



RJ45 Breakout



# Controller Connections



Set Controller Protocol & Baud rate (see below)

Outputs same commands as RS-485 connector

Connect RJ45 breakout adaptor

Connect Power

Connect to PTZ camera

## Dip Switch Settings

DIP switches 1-4 determine the type of protocol and switches 5 & 6 specify the baud rate. Table 1 shows all the protocols along with their most common baud rates. Table 2 shows how to set switches 5 & 6 for different baud rates. Switches 7 & 8 are note used.

Switch Position Protocol Type	Table 1 Protocol Switches				Baud Rate Switches	
	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6
	PELCO-D	ON	ON	OFF	OFF	OFF
PELCO-P/4800	OFF	OFF	ON	OFF	ON	OFF
PELCO-P/9600	OFF	OFF	ON	OFF	OFF	ON
PANASONIC	ON	OFF	ON	OFF	OFF	ON
HUND A600	ON	ON	ON	OFF	OFF	ON
LILIN	OFF	OFF	OFF	ON	OFF	ON
KALATEL	ON	ON	OFF	ON	ON	OFF
ALEC	OFF	ON	ON	ON	OFF	ON
ULTRAK	ON	ON	ON	ON	OFF	ON

Switch Baud Rate	Table 2					
	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6
2400bps					OFF	OFF
4800bps					ON	OFF
9600bps					OFF	ON
19200bps					ON	ON

The following are examples of popular settings:



PELCO-D  
(2400bps)



PELCO-P  
(4800bps)



PELCO-P  
(9600bps)

# Keypad Functions

- CAM:** To select an address of a PTZ camera
- CALL:** To call the preset position
- PRESET:** To set the preset position
- SHOT:** To set up or call cruising track
- AUTO:** To control auto-horizontal rotation for pan/tilt
- WIDE:** To a wide angle
- TELE:** To turn to a telescopic range
- FAR:** To make focus far manually
- NEAR:** To make focus near manually
- OPEN:** To open iris
- CLOSE:** To close iris



- ON:** Enable a setting
- OFF:** Disable a setting
- F1:** Auxiliary control buttons
- 0-9:** Number key
- C:** Clear data input
- ENTER:** To confirm

## User Command Sequences

1. Select Address of PTZ Camera: **[CAM]+[N]+[Enter]**  
(Where “N” is the Camera ID)  
Camera number “N” is now being controlled.

Display:

2. To set preset position: **[PRESET]+[N]+[ Enter]**  
(Where “N” is a preset position from 1 to 128)  
This stores the current position as preset number “N”.

Display:

3. Call the preset position: **[CALL]+[N]+[ Enter]**  
(Where “N” is a preset created in step 2)  
The camera moves to position number “N”.

Display:

# User Command Sequences

4. Cancel the Preset position: **[PRESET]+[N]+[OFF]**

(Where “N” is a preset created in step 2)

This deletes the preset position stored at number “N”.

Display:

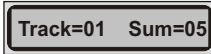


5. Edit the cruise track settings: **[SHOT]+[N]+ [ON]**

(Where “N” is the track number from 1 to 6)

Example: Track 1 is being edited, and there are 5 preset points within it.

Display:



Press **[TELE]** to advance to the next menu

Press **[WIDE]** to go back to the previous menu.

Each track has 16 preset points each with a running speed and dwell time.

Example:



Use the number buttons to edit the preset point (1-16)



Use the number buttons to edit the speed (1-8)



Use the number buttons to edit the dwell time (1-99)

If any preset point is stored as point 0, then all higher numbered presets in the track will also be set to 0. Points that are set to 0 are effectively deleted from the cruise track. For example, if point 6 is set to 0, then points 7-16 will also be set to 0 automatically.

Press **[OFF]** to save the edited settings and exit the menu.

Move the joystick to exit the menu without saving changes.

# User Command Sequences

6. Tour the Track: **[SHOT]+[N]+ [Enter]**  
(Where “N” is the track number from 1 to 6)

Display:



7. Stop the Track: **[SHOT]+[N]+ [OFF]**  
(Where “N” is the track number from 1 to 6)

This stops the cruise track.

The cruise track can also be stopped by moving the joystick.

8. Clear Cruise Track: Press and hold **[OFF]** down for 2 seconds until “ Clear Tour OK ” appears.

9. Auto Pan Setting:

Set the dome to scan start position: press **[AUTO]+[ON]** to save the scan starting position.

Set the dome to scan end position: press **[AUTO]+[OFF]** to save the end position.

Run Auto Pan: **[AUTO]+[ENTER]**

10. Stop Auto Pan: move the joystick to stop scan

11. Control the zoom of the Camera: **[WIDE]/[TELE]**

12. Control the Focus of the Camera: **[FAR]/[NEAR]**

13. Control the Iris of the Camera: **[OPEN]/[CLOSE]**

## Special Camera Functions

The special function listed below are only available when the controller is used with certain cameras. Some cameras may only respond to some of these special functions. Control functions marked with an “\*” are saved in the camera’s non-volatile memory.

		Keyboard Button Sequence	
No.	Control Function	[CALL] + No.	[PRESET] + No.
51	Pan-Tilt Compensation Control	Enable line-scanning (Low speed)	Enable scanning
52		Enable line-scanning (Medium speed)	Set starting point for scanning
53		Enable line-scanning (High speed)	Set ending point for scanning
54	Camera Power Control	Power On	Power Off
55	Background Light Compensation*	On	Off
56	Zero Illumination	On	Off
57	Screen Display*	On	Off
58	Digital Zoom*	On	Off
59	Focus	Auto	Manual
60	Iris	Auto	Manual
61	White Balance Mode*	Auto	Manual
62		Indoor	Outdoor
63		ATW	One Push WB
100	Home position	On	Off
95	Dwell time setting for the Home position function	1 minute	
96		2 minutes	
97		4 minutes	
98		8 minutes	
99		10 minutes	

# Cameras with OSD

Some cameras, such as Channel Vision's 6153, offer an On Screen Display (OSD) that allows special parameters of the camera to be configured.

To enable the OSD, press [CALL] + 57.

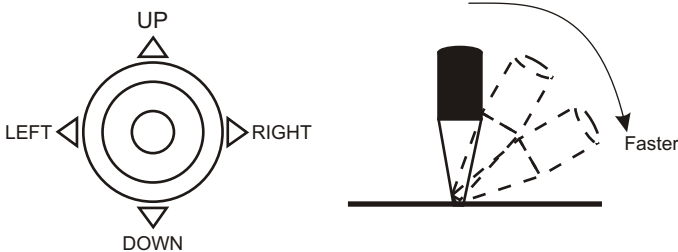
To exit the OSD, press [PRESET] + 57.

Navigating the menu:

1. Use the [TELE] and [WIDE] buttons to scroll up and down in the menu.
2. Use the [FAR] and [NEAR] buttons to change a selected item in the menu.
3. Select the "EXIT" function in the OSD list when finished.

# Using the Joystick

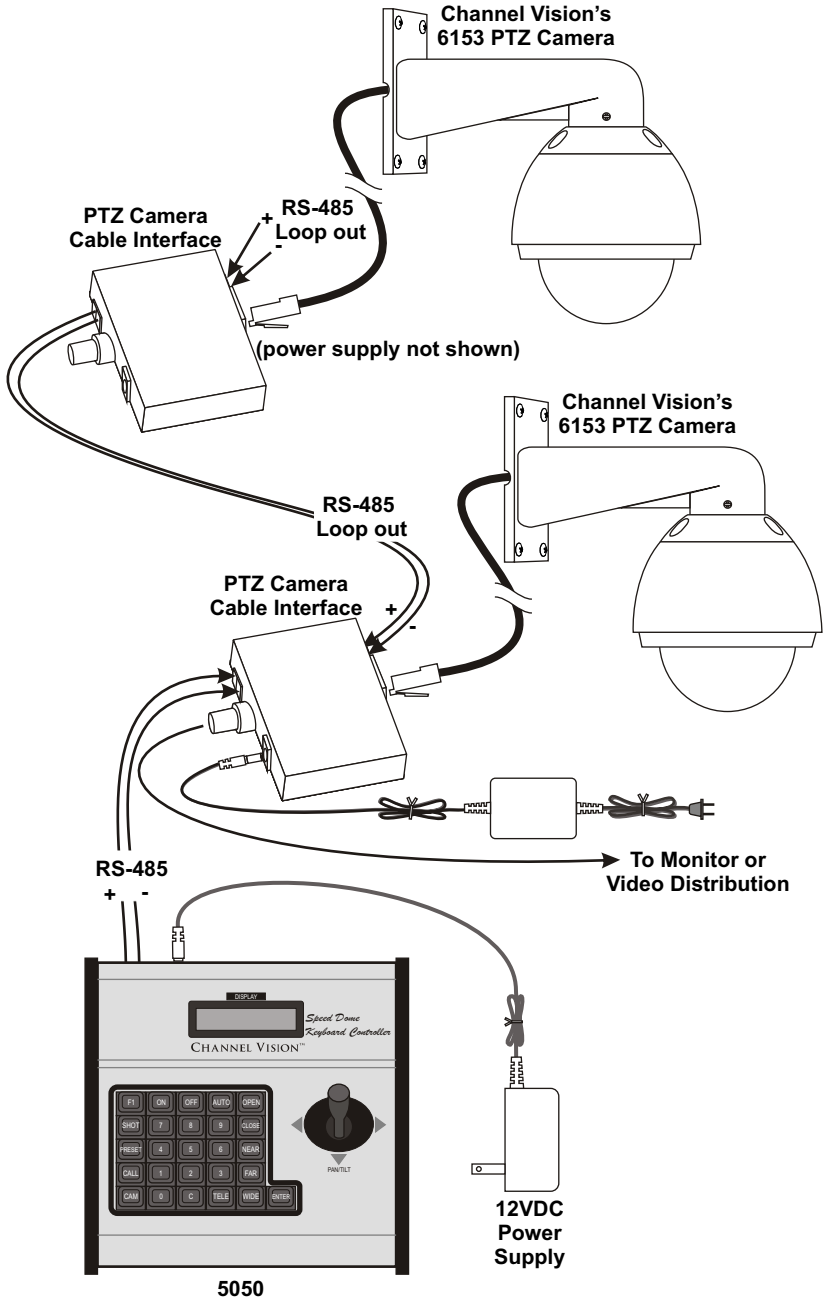
The Joystick can be used to control your Pan Tilt Zoom camera at any time. It can be used to override the motion of an automated scan and allows the user easy control over the speed and direction of the camera movement. The speed of pan/tilt is determined by the angle of the joystick (see image below). As the angle of the Joystick increases, so does the speed of the camera. We recommend using the auto focus function to maintain a clear image while scanning with the joystick.





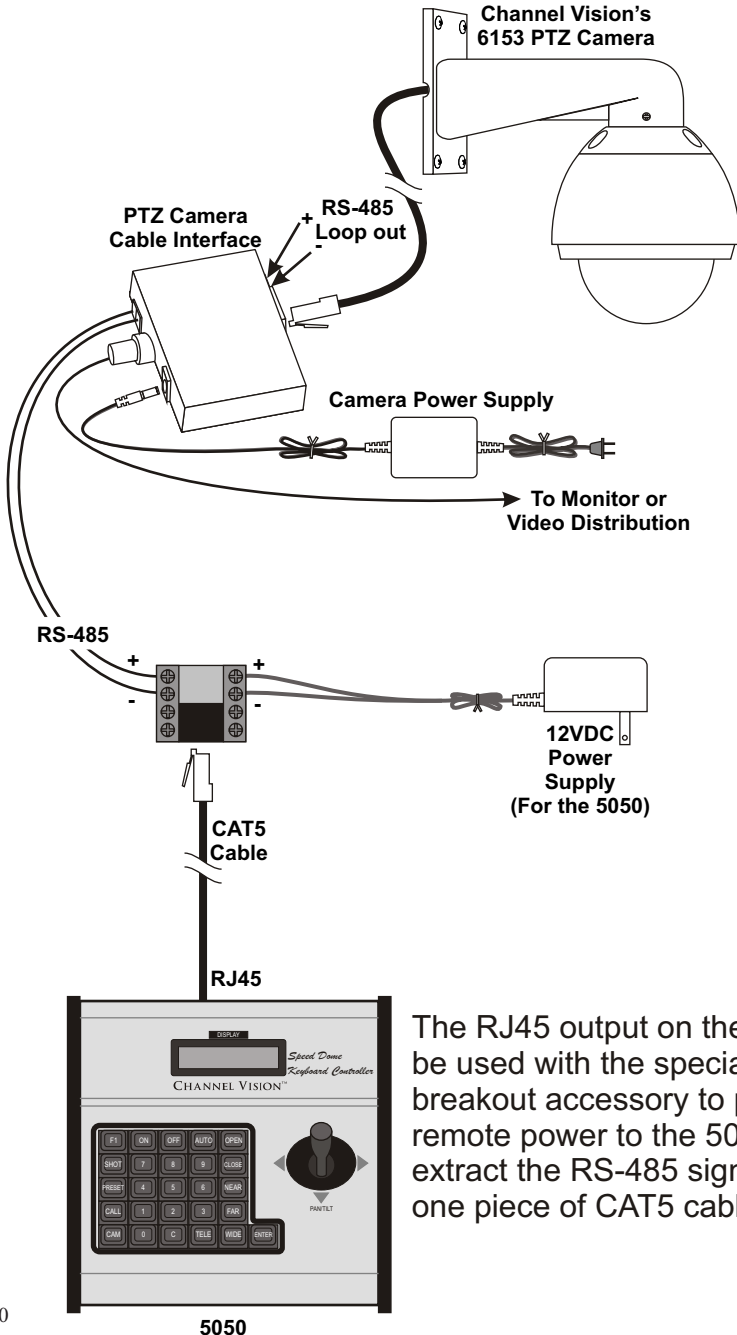
# Typical Setup

Make all connections before applying power.



# Using the RJ45 Output

Make all connections before applying power.



The RJ45 output on the 5050 can be used with the special RJ45 breakout accessory to provide remote power to the 5050 and extract the RS-485 signals all over one piece of CAT5 cable.

# \*Specifications

<b>Communication Type:</b>	Port to multi-port and half duplex function
<b>Communication Mode:</b>	RS-485
<b>Baud Rates:</b>	2400Bps 4800Bps 9600Bps 19200Bps
<b>Max Wire Distance:</b>	1.2km 0.75mi
<b>Power Supply:</b>	DC12V/800 mA
<b>Max Number of Cameras:</b>	32
<b>Dimensions:</b>	95mm(H) × 205mm(L) × 205mm(W) 3.75"(H) × 8.07"(L) × 8.07"(W)
<b>Weight:</b>	1.2 Kg

\*Specifications subject to change without notice.



## **2 Year Limited Warranty**

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for two years from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.



**[www.channelvision.com](http://www.channelvision.com)**

234 Fischer Avenue, Costa Mesa, California 92626 USA

(714)424-6500 • (800)840-0288 • (714)424-6510 fax

email: [techsupport@channelvision.com](mailto:techsupport@channelvision.com)