INSTRUCTION MANUAL Ver 1.0.0d

Pan, Tilt and Zoom Controller / KCT-100

Features

❑ **Controller Specification**

- RS-485 Communication
- Numeric LCD Display
- Variable Pan and Tilt Speed
- Multiple Integrated Protocols (Including Pelco D and Pelco P)
- Programmable Baud Rate
- Up to 255 addressable camera ID
- 12v DC

Components

❑ Parts Information

Item	Part No.	Description
PTZ Controller	KCT-100	PTZ Controller Keyboard
Power Supply		12v DC Power Supply

❑ Default Components

PTZ Controller Keyboard	Accessories
	Manual KCT-100 Manual Power Supply
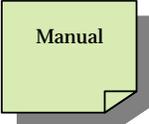
System Configuration

❑ **Configurations**
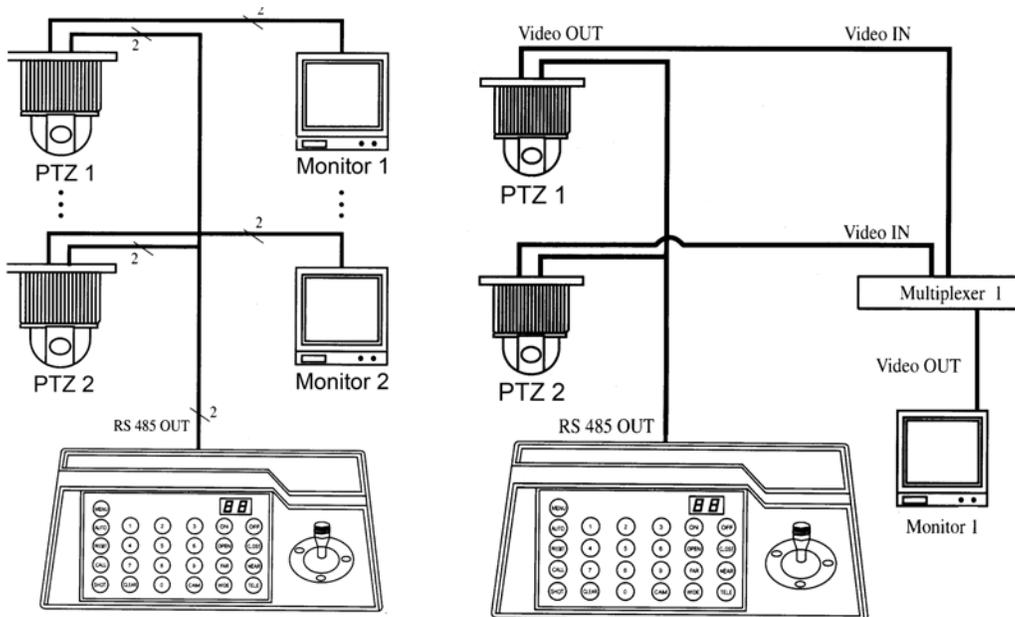
❑ **Part Description**
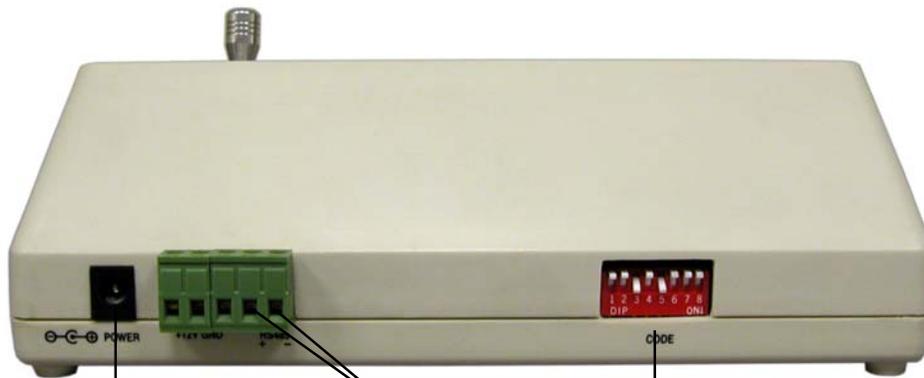
12v DC (Power)	RS-485	DIP Switches

- **12v DC (Power)**   **Input for 12vDC power supply**
- **DIP Switches**   **Protocol and Baud Rate Selection**
- **RS-485**   **RS-485 Output**

Protocol and Baud Rate

❑ RS-485 communication

RS-485 communication is used to control the camera. Protocol and Baud rate are set using the Dip Switch located on the back on the controller. Each camera connected to the PTZ controller must have a unique address.

- Specification   Standard RS-485 with MAX. 32 Camera Control
- Number of wire   2 Wire (D+, D-)
- Protocol   Pelco-D, Pelco-P, Samsung, Neon, Hunda600, A01, B01 and Santachi

❑ CODE: Controller Protocol Settings
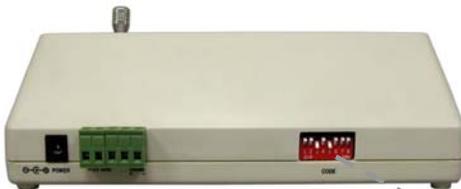
- When a dip switch is ON, its bit logic is 1
- Dip Switch 7 and 8 are always set to OFF
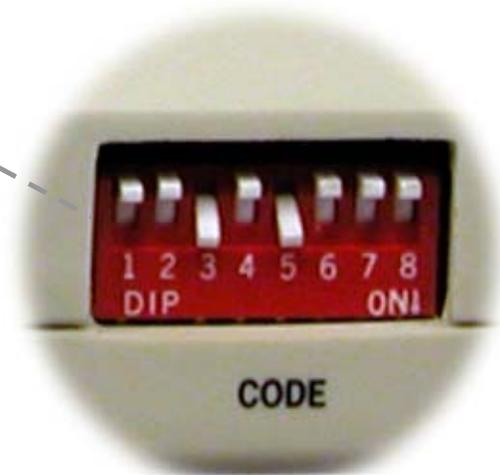
❑ ID-CODE : Camera Protocol and Baud Rate Settings

This camera supports multiple RS-485 Protocols and Baud Rates. The Baud rate is set separately from the Protocol on the CODE Dipswitch located on the back of the controller. The table below contains a list of protocols supported by the camera and the default baud rate for the protocol. Please note switch 7 and switch 8 are set OFF.

Supported Protocol	Selection Of Protocols				Default Baud Rates	
	1st	2nd	3rd	4th	5th	6th
Pelco D /2400	ON	ON	OFF	OFF	OFF	OFF
Pelco P /4800	OFF	OFF	ON	OFF	ON	OFF
Pelco P /9600	OFF	OFF	ON	OFF	OFF	ON
Samsung	ON	OFF	OFF	OFF	OFF	ON
Neon	ON	OFF	OFF	OFF	OFF	ON
Santachi	OFF	ON	OFF	OFF	OFF	ON
A01	OFF	OFF	OFF	OFF	ON	OFF
B01	ON	OFF	OFF	OFF	OFF	ON
Hunda600	ON	ON	ON	OFF	OFF	ON

Dip Switch settings for configuring the camera to use Pelco D Protocol at 2400 Baud:
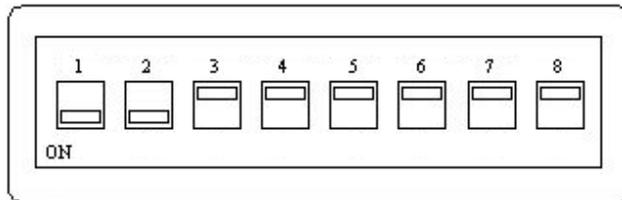
Below is a table showing the proper settings of the 5th and 6th dip switch for setting preferred baud rate.

Baud Rate	Selection Of Protocols				Baud Rates	
	1st	2nd	3rd	4th	5th	6th
2400					OFF	OFF
4800					ON	OFF
9600					OFF	ON
19200					ON	ON

Controller Layout

❑ Wiring:

12v DC

Protocol/Baud Rate

B (−) Output

RS−485 Output

A (+) Output
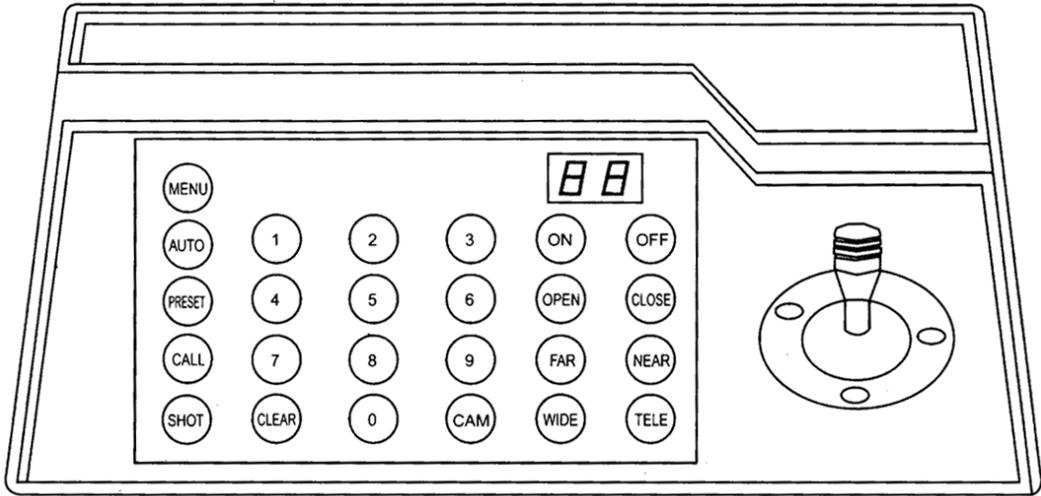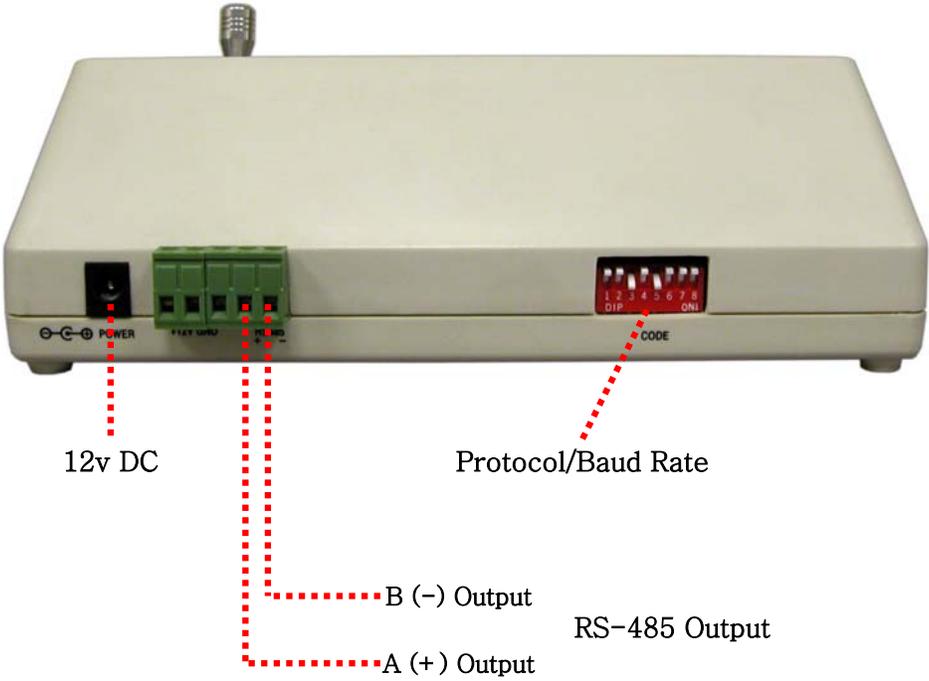
Keyboard Operation

❑ Select ID of Camera: N + [CAM]

    Description: N = The address of the PTZ camera you want to take control of.

    Function: Selects the address of the camera to be controlled.

❑ Set Preset: N + [PRESET]

    Description: N = Number of preset you wish to set in the camera (1 to 128)

    Function: Set the specified preset in the camera selected

❑ Call Preset: N + [CALL]

    Description: N = Number of preset you wish to call in the camera (1 to 128)

    Function: Move selected camera to specified preset.

❑ Clear Preset: N + [CLEAR]

    Description: N = Number of preset (1 – 128)

    Function: Deletes specified preset stored in camera.

❑ Run Cruise Track: N + [SHOT]

    Description: N = Number of the Cruise Track wish to run in the camera (1 to 6)

    Function: Runs specified Cruise Sequence stored in the camera.

❑ Stop Cruise Track: (Pelco D, Pelco P): Move Joystick

    Description: Stops Cruise Track

    Function: Stops the Cruise Sequence currently running, alternatively you can move the joystick.

❑ Set Auto Pan (Pelco D, Pelco P)

    Program Start and End points for Auto Pan.

    Auto Pan Start Point: [AUTO] + [ON]

    Description: Sets start point for Auto Pan

    Auto Pan End Point: [AUTO] + [OFF]

    Description: Sets end point for Auto Pan

❑ Run Auto Pan (Pelco D, Pelco P): [AUTO] + [SHOT]

   Description: Auto scans between preset Auto Pan Start Point and Auto Pan End Point

❑ Stop Auto Pan (Pelco D, Pelco P): Move Joystick

   Description: Stops Auto Pan

❑ Advanced Control of Camera Settings:

   You can control the Advanced Functions of some cameras directly through the keyboard.

Value of N	Description	Definition of Keyboard Operation	
		[MENU] + N + [ON]	[MENU] + N + [OFF]
0	Camera Power	Power ON/OFF	Camera Reset
1	Back Light Compensation	ON	OFF
2	Zero Illumination	ON	OFF
3	On Screen Display	ON	OFF
4	Digital Zoom	ON	OFF
5	Not Supported		
6	Focus	Auto	Manual
7	Iris	Auto	Manual
8	White Balance Mode (WB)	Auto	Manual
9		Indoor Mode	Outdoor Mode
10		ATW Mode	One Puch WB
11	Black and White/Color Switching	Color	Black & White

* Please note not all functions work with all cameras

KCT-100 Specification

Model		KCT-100
Controller	Communication	RS-485, Max 1200 meters
	Baud Rates	2400, 4800, 9600, 19200 Bps
	Protocol	Pelco-D, Pelco-P, Samsung, Neon, Hunda600, A01, B01 and Santachi
General	Power	12v DC, 500mA
	Dimension	188×97 x 70(H) mm
	Weight	Approx. 1Kg

* Specification & design are subject to change without notice

MEMO