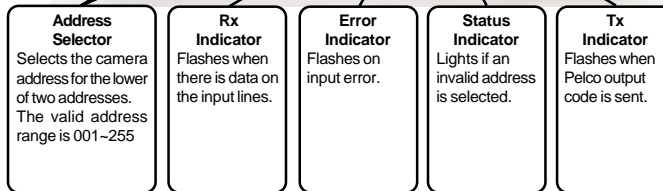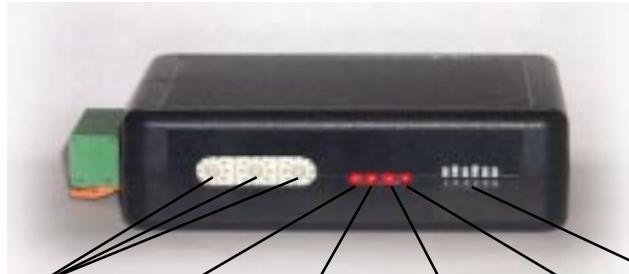# SC-200-Pelco-FLIR
Pelco RS-422 Code Convertor for FLIR PTZ Cameras

Designed for control of Pelco compatible FLIR dual camera systems with a visible light camera and a thermal camera on a single P/T, such as the PTZ-35MS or PTZ-50MS that have two video outputs.

For control systems with limited Auxiliary command capability, selected preset groups are converted into auxiliary Off & On commands for FLIR thermal camera functions.

Input Pelco "D" or "P" code at 2400, 4800, 9600, or 19200 baud is detected automatically. Output is switch selectable for Pelco code type and baud rate.

A test mode sends a continuous square movement pattern to the PTZ so the wiring and addressing between the translator and the PTZ can be checked without a Pelco controller.

Configuration Switches

Switch 1: Output Code Type

On:	Pelco "P" Code
Off:	Pelco "D" Code

Switches 2&3: Output Baud

Off	Off	2400 Baud
On	Off	4800 Baud
Off	On	9600 Baud
On	On	19200 Baud

Switch 4: Re-map Aux Cmds

On:	Enabled
Off:	Disabled

Switch 5: Output Camera Address

On:	Address = 001
Off:	= Selector Switch

Switch 6: Output Test Mode

On:	Test mode On
Off:	Test mode Off

Address Selector
Selects the camera address for the lower of two addresses. The valid address range is 001~255

Rx Indicator
Flashes when there is data on the input lines.

Error Indicator
Flashes on input error.

Status Indicator
Lights if an invalid address is selected.

Tx Indicator
Flashes when Pelco output code is sent.

The removable mounting clip can be snapped onto a din rail or screwed to a panel or wall.

Removable edge connector
Insert a small screwdriver in the upper slot to force open the wire clamp. Push in all the way to open fully. Place stripped wire end(s) in the open clamp and withdraw screwdriver.

+ −
Data Input

− +
Data Output

Connect power to the PWR inputs. Do not connect power wires to the Gnd.

SPECIFICATIONS

Size:	4.5" x 3.5" x 1.25"
Weight:	0.5 lb
Power:	9~15Volt AC or DC at 75ma
Environmental:	Indoor use only

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Configuration Switches
Configuration switches are not read only at power up, any changes take effect immediately.

Indicators
The **Rx** indicator will flash when there is data on the input.
If it stays on, the input wires are probably reversed.

The **Error** indicator will flash if the input code is not recognized as valid Pelco code.

The **Status** indicator will light if the address switches are not set to a valid address (001~255).

The **Tx** indicator flashes for each Pelco packet sent.

Addressing
The two cameras must be consecutive addresses on the control system. Set the address selector switches to the lower of the two addresses. Commands for both cameras are sent to the FLIR unit which has a single address. If configuration switch 5 is Off, that address will be the same as the selector switch setting. If switch 5 is On, the output data will always be addressed to camera #1.

Test Mode
Switch 6 On puts the code translator into a test generator mode that continually sends a square movement pattern to the PTZ, pan left, tilt down, pan right, tilt up. This can be used to check for proper communications between code translator and camera without needing a controller.
Turn the switch Off to return to normal operation.

Preset to Aux Conversion
FLIR cameras use Pelco Auxiliary 1~9 On/Off commands for certain functions. Some Pelco control systems are limited in the number of Auxiliary commands they can send. For these systems, set configuration switch 4 On so the code convertor will re-map some Preset commands into Auxiliary commands.

Input Command	Output Command
Preset 21~29	Aux Off 1~9
Preset 31~39	Aux On 1~9

Example using video inputs 8 & 9.