SC-50-Pelco-FLIR
Pelco RS-422 Code Covertor for FLIR Cameras Version 2.0

Converts Pelco RS-422 camera control code into Pelco "D" code with selected preset groups converted into auxiliary On and Off commands for FLIR camera functions.

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

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

Configuration Switches

Switches 1&2: Output Baud

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

Switches 3&4: Conversion Group

Off	Off	Presets 6~16
On	Off	Presets 12~28
Off	On	Presets 41~49
On	On	Presets 42~58

Switch 5: Output Camera Address

Up:	Output address = 001
Down:	Output address = Input

Switch 6: Output Test Mode

Up:	Output test pattern On
Down:	Output test pattern Off

Address Selector
Selects the camera address for test mode and single camera mode. The valid address range is 1~256

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 during test mode

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 (1~256) while test mode is enabled.

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

Addressing
If switch 5 is Off, the code for all input addresses will be converted and sent to the output with the same address. If switch 5 is On, input data for only one camera, determined by the address selection switches, will be converted and the output address will always be 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, the code convertor can be configured for one of four Preset to Auxiliary conversion groups
In three of the groups, the operator will get the same result by sending either Goto Preset or Set Preset.
Preset group 41-49 converts Goto Preset into Aux On and Set Preset into Aux Off commands.

Preset Group 6~16		Preset Group 12~28		Preset Group 41~49		Preset Group 42~58	
Preset 6	Aux 1 On/Off	Preset 12	Aux 1 On/Off	Goto Preset 41	Aux 1 On	Preset 42	Aux 1 On/Off
				Set Preset 41	Aux 1 Off		
Preset 7	Aux 2 On	Preset 13	Aux 2 On	Goto Preset 42	Aux 2 On	Preset 43	Aux 2 On
Preset 8	Aux 2 Off	Preset 14	Aux 2 Off	Set Preset 42	Aux 2 Off	Preset 44	Aux 2 Off
Preset 9	Aux 3 On	Preset 15	Aux 3 On	Goto Preset 43	Aux 3 On	Preset 45	Aux 3 On
Preset 10	Aux 3 Off	Preset 16	Aux 3 Off	Set Preset 43	Aux 3 Off	Preset 46	Aux 3 Off
		Preset 17	Aux 4 On	Goto Preset 44	Aux 4 On	Preset 47	Aux 4 On
Preset 11	Aux 4 Off	Preset 18	Aux 4 Off	Set Preset 44	Aux 4 Off	Preset 48	Aux 4 Off
		Preset 19	Aux 5 On	Goto Preset 45	Aux 5 On	Preset 49	Aux 5 On
Preset 12	Aux 5 Off	Preset 20	Aux 5 Off	Set Preset 45	Aux 5 Off	Preset 50	Aux 5 Off
Preset 13	Aux 6 On	Preset 21	Aux 6 On	Goto Preset 46	Aux 6 On	Preset 51	Aux 6 On
		Preset 22	Aux 6 Off	Set Preset 46	Aux 6 Off	Preset 52	Aux 6 Off
Preset 14	Aux 7 On	Preset 23	Aux 7 On	Goto Preset 47	Aux 7 On	Preset 53	Aux 7 On
Preset 15	Aux 7 Off	Preset 24	Aux 7 Off	Set Preset 47	Aux 7 Off	Preset 54	Aux 7 Off
		Preset 25	Aux 8 On	Goto Preset 48	Aux 8 On	Preset 55	Aux 8 On
		Preset 26	Aux 8 Off	Set Preset 48	Aux 8 Off	Preset 56	Aux 8 Off
		Preset 27	Aux 9 On	Goto Preset 49	Aux 9 On	Preset 57	Aux 9 On
Preset 16	Aux 9 Off	Preset 28	Aux 9 Off	Set Preset 49	Aux 9 Off	Preset 58	Aux 9 Off