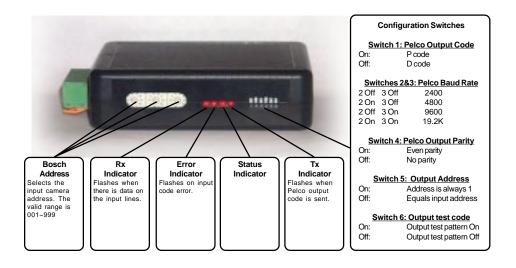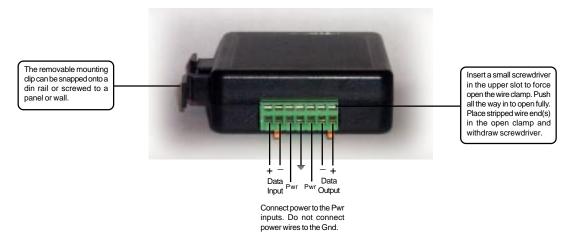# SCT-100-Bosch-Pelco-V20
Bosch Biphase to Pelco RS-422 Code Translator Version 2.0

The code translator converts Bosch biphase camera control code to Pelco RS-422 control code for a single P/T/Z. Only camera commands for the address matching the Address Selector switches will be converted.

A test mode sends a continuous square movement pattern to the P/T/Z so the communications between the translator and the P/T/Z can be checked without a Bosch controller.

Configuration Switches

Switch 1: Pelco Output Code
On:	P code
Off:	D code

Switches 2&3: Pelco Baud Rate
2 Off	3 Off	2400
2 On	3 Off	4800
2 Off	3 On	9600
2 On	3 On	19.2K

Switch 4: Pelco Output Parity
On:	Even parity
Off:	No parity

Switch 5: Output Address
On:	Address is always 1
Off:	Equals input address

Switch 6: Output test code
On:	Output test pattern On
Off:	Output test pattern Off

Bosch Address
Selects the input camera address. The valid range is 001~999

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

Error Indicator
Flashes on input code error.

Status Indicator

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.

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

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Data Input Pwr Pwr 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:	9Volt to 15Volt AC or DC at 75ma
Environmental:	Indoor use only

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Switch Settings
Any changes in switch settings are effective immediately, they are not read only on power up.

Pelco Output Code
The Pelco output is switch selecable for "P" or "D" code at baud rates from 2400 to 19200 with either no parity or even parity.

Addressing
Only control code for the input camera number set by the Bosch Address Switches is converted. The valid Bosch input range is 001 ~ 999. The valid Pelco address range is 001 ~ 256. The address conversion from Bosch to Pelco is modulo 256: Bosch address 257 will become Pelco address 1. If switch 5 is off, the Pelco addresses will be determined by the Address Switches. If switch 5 is On, the Pelco output code will always be sent to camera address #1.

Test Pattern
When switch 6 is on, the translator sends a continuous small square movement pattern to the camera. The input is not active while the test pattern is On.

Indicators
The **Rx** LED will flash when there is any data on the input.
The **Error** LED will flash if the input code is not recognized as valid Bosch biphase code.
The **Tx** LED flashes for each Pelco packet sent.

OPERATION

Bosch pan, tilt, zoom, focus, iris, & pre-position are converted to the equivalent Pelco commands. Aux commands are used to send Pelco extended commands according to the following table

BOSCH CMD	PELCO CMD
ON 02	Start Auto-scan
ON 41~48	Program Zone Start 1~8
OFF 41~48	Program Zone End 1~8
ON 49	Zone Scan ON
OFF 49	Zone Scan OFF
ON 61~68	Alarm Acknowledge 1~8

(Pelco's pattern can be recorded and run as either a full pattern or two halves.)

BOSCH CMD	PELCO CMD
ON 71	Run 1st half pattern
ON 72	Run 2nd half pattern
ON 73	Run full pattern
ON 81	Start Recording 1st half pattern
ON 82	Start Recording 2nd half pattern
ON 83	Start Recording full pattern
OFF 81	End 1st half pattern recording
OFF 82	End 2nd half pattern recording
OFF 83	End full pattern recording
ON 50	Play Pattern A
OFF 52	Play Pattern B
ON 100 / OFF 100	Record Pattern A / End pattern A recording
ON 101 / OFF 101	Record Pattern B / End pattern B record
SET 95	Start Dome Program
	(Use Tilt to navigate the menu and Iris Open to select items.)