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PRODUCT DESCRIPTION

The SCT-1022 is a Bosch to Pelco control code translator designed to permit control of Pelco cameras from Bosch controllers. It receives Bosch biphase format commands and transmits the appropriate commands in Pelco RS-422 format. There are four independent Pelco RS-422 outputs.

Internal configuration switches set the Pelco output code type, baud rate, parity, and address groupings.

Input and output connections are made with mating screw terminal connectors. Front panel LEDs indicate status of power, receive, and transmit.

There is an optional 19" rack mount panel (one rack unit high).

Version 3.0 increases the number of address groups for a Pelco group size of 32.

SPECIFICATIONS

SIZE: WEIGHT: POWER: INDICATORS: BOSCH BIPHASE INPUT: PELCO RS-422 OUTPUTS: 5.57"W x 1.52H x 5.45D
1.5 lbs.
9Volt to 15Volt AC or DC at 75ma
Front panel LEDs: Power, Rx, & Tx
(1) mating 3-pin screw terminal connector
(4) mating 3-pin screw terminal connectors

To install the case on the rack mount frame, remove the front panel and the plastic bezel. The rack mount frame takes the place of the bezel as shown below.



SETTING THE SWITCHES

To set the configuration switches, remove the back panel, which is secured by two screws. Then slide the cover back to expose the switches. The switches can be changed while the code translator is powered up and the new settings will take effect immediately.



Addressing notes:

Older Pelco devices receiving "P" code and the CM9760CXTA coaxitron code generator have an address limit of 32. For these devices, set SW1-8 OFF to select a group size of 32, then set switches 1~7 to select one of the 128 address groups. One code translator is required for each group of 32 cameras.

Pelco receivers using "D" code can be addressed 1~255 and Pelco Spectra III domes can be addressed 1~256. For these devices, set SW1-8 ON for a group size of 256, then set switches 1~5 to select one of the 32 address groups (switches 6 & 7 are ignored). One code translator is required for each group of 255 or 256 cameras.

SW1-1 to SW1-7 for Groups of 32 With 128 groups of size 32, it is possible to use Bosch camera addresses up to 4096. Each group is converted to Pelco addresses 1 to 32.															
1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Z	Addresses	1	2	<u>3</u>	4	<u>5</u>	<u>6</u>	Z	Addresses
OFF	OFF	OFF	OFF	OFF	OFF	OFF	0001 ~ 0032	OFF	OFF	OFF	OFF	OFF	OFF	ON	2049~2080
ON	OFF	OFF	OFF	OFF	OFF	OFF	0033~0064	ON	OFF	OFF	OFF	OFF	OFF	ON	2081~2112
OFF	ON	OFF	OFF	OFF	OFF	OFF	0065~0096	OFF	ON	OFF	OFF	OFF	OFF	ON	2113~2144
ON	ON	OFF	OFF	OFF	OFF	OFF	0097~0128	ON	ON	OFF	OFF	OFF	OFF	ON	2145~2176
OFF	OFF	ON	OFF	OFF	OFF	OFF	0129~0160	OFF	OFF	ON	OFF	OFF	OFF	ON	2177~2208
	OFF		OFF	OFF	OFF	OFF	$0101 \sim 0192$ $0193 \sim 0224$				OFF	OFF	OFF	ON	2209~2240
ON	ON	ON	OFF	OFF	OFF	OFF	$0193 \sim 0224$ $0225 \sim 0256$	ON	ON	ON	OFF	OFF	OFF	ON	$2241 \sim 2212$ $2273 \sim 2304$
OFF	OFF	OFF	ON	OFF	OFF	OFF	0257~0288	OFF	OFF	OFF	ON	OFF	OFF	ON	2305~2336
ON	OFF	OFF	ON	OFF	OFF	OFF	0289~0320	ON	OFF	OFF	ON	OFF	OFF	ON	2337~2368
OFF	ON	OFF	ON	OFF	OFF	OFF	0321~0352	OFF	ON	OFF	ON	OFF	OFF	ON	2369~2400
ON	ON	OFF	ON	OFF	OFF	OFF	0353~0384	ON	ON	OFF	ON	OFF	OFF	ON	2401~2332
OFF	OFF	ON	ON	OFF	OFF	OFF	0385~0416	OFF	OFF	ON	ON	OFF	OFF	ON	2433~2464
ON	OFF	ON	ON	OFF	OFF	OFF	0417~0448	ON	OFF	ON	ON	OFF	OFF	ON	2465~2496
	ON	ON	ON	OFF	OFF	OFF	0449~0460	ON	ON	ON	ON	OFF	OFF	ON	2529~2560
OFF	OFF	OFF	OFF	ON	OFF	OFF	0513~0544	OFF	OFF	OFF	OFF	ON	OFF	ON	2561~2592
ON	OFF	OFF	OFF	ON	OFF	OFF	0545~0576	ON	OFF	OFF	OFF	ON	OFF	ON	2593~2624
OFF	ON	OFF	OFF	ON	OFF	OFF	0577~0608	OFF	ON	OFF	OFF	ON	OFF	ON	2625~2656
ON	ON	OFF	OFF	ON	OFF	OFF	0609~0640	ON	ON	OFF	OFF	ON	OFF	ON	2657~2688
OFF	OFF	ON	OFF	ON	OFF	OFF	0641~0672	OFF	OFF	ON	OFF	ON	OFF	ON	2689~2720
ON	OFF	ON	OFF	ON	OFF	OFF	06/3~0/04	ON	OFF	ON	OFF	ON	OFF	ON	2/21~2/52
	ON		OFF		OFF	OFF	$0703 \sim 0730$ $0737 \sim 0768$				OFF		OFF		2735~2764
OFF	OFF	OFF	ON	ON	OFF	OFF	0769~0800	OFF	OFF	OFF	ON	ON	OFF	ON	2817~2848
ON	OFF	OFF	ON	ON	OFF	OFF	0801 ~ 0832	ON	OFF	OFF	ON	ON	OFF	ON	2849~2880
OFF	ON	OFF	ON	ON	OFF	OFF	0833~0864	OFF	ON	OFF	ON	ON	OFF	ON	2881~2912
ON	ON	OFF	ON	ON	OFF	OFF	0865~0896	ON	ON	OFF	ON	ON	OFF	ON	2913~2944
OFF	OFF	ON	ON	ON	OFF	OFF	0897~0928	OFF	OFF	ON	ON	ON	OFF	ON	2945~2976
ON	OFF	ON	ON	ON	OFF	OFF	0929~0960	ON	OFF	ON	ON	ON	OFF	ON	2977~3008
					OFF	OFF	0961~0992	OFF					OFF		3009~3040
OFF	OFF	OFF	OFF	OFF	ON	OFF	1025~1024	OFF	OFF	OFF	OFF	OFF	ON	ON	$3073 \sim 3104$
ON	OFF	OFF	OFF	OFF	ON	OFF	1057~1088	ON	OFF	OFF	OFF	OFF	ON	ON	3105~3136
OFF	ON	OFF	OFF	OFF	ON	OFF	1089~1120	OFF	ON	OFF	OFF	OFF	ON	ON	3137~3168
ON	ON	OFF	OFF	OFF	ON	OFF	1121 ~ 1152	ON	ON	OFF	OFF	OFF	ON	ON	3169~3200
OFF	OFF	ON	OFF	OFF	ON	OFF	1153~1184	OFF	OFF	ON	OFF	OFF	ON	ON	3201 ~ 3232
ON	OFF	ON	OFF	OFF	ON	OFF	1185~1216	ON	OFF	ON	OFF	OFF	ON	ON	3233~3264
			OFF	OFF		OFF	1217~1248	OFF			OFF	OFF	ON		3265~3296
OFF	OFF	OFF	ON	OFF	ON	OFF	1249~1200	OFF	OFF	OFF	ON	OFF	ON	ON	3329~3360
ON	OFF	OFF	ON	OFF	ON	OFF	1313~1344	ON	OFF	OFF	ON	OFF	ON	ON	3361 ~ 3392
OFF	ON	OFF	ON	OFF	ON	OFF	1345 ~ 1376	OFF	ON	OFF	ON	OFF	ON	ON	3393~3424
ON	ON	OFF	ON	OFF	ON	OFF	1377 ~ 1408	ON	ON	OFF	ON	OFF	ON	ON	3425 ~ 3456
OFF	OFF	ON	ON	OFF	ON	OFF	1409~1440	OFF	OFF	ON	ON	OFF	ON	ON	3457~3488
ON	OFF	ON	ON	OFF	ON	OFF	1441~1472	ON	OFF	ON	ON	OFF	ON	ON	3489~3520
	ON	ON	ON	OFF	ON	OFF	1413~1304		ON	ON	ON	OFF	ON	ON	3553 ~ 3584
OFF	OFF	OFF	OFF	ON	ON	OFF	1537~1568	OFF	OFF	OFF	OFF	ON	ON	ON	3585~3616
ON	OFF	OFF	OFF	ON	ON	OFF	1569 ~ 1600	ON	OFF	OFF	OFF	ON	ON	ON	3617~3648
OFF	ON	OFF	OFF	ON	ON	OFF	1601~1632	OFF	ON	OFF	OFF	ON	ON	ON	3649~3680
ON	ON	OFF	OFF	ON	ON	OFF	1633 ~ 1664	ON	ON	OFF	OFF	ON	ON	ON	3681~3712
OFF	OFF	ON	OFF	ON	ON	OFF	1665 ~ 1696	OFF	OFF	ON	OFF	ON	ON	ON	3713~3744
ON	OFF	ON	OFF	ON	ON	OFF	1697~1728	ON	OFF	ON	OFF	ON	ON	ON	3745~3776
							1729~1760								3809 - 3808
OFF	OFF	OFF	ON	ON	ON	OFF	1793~1824	OFF	OFF	OFF	ON	ON	ON	ON	3841~3872
ON	OFF	OFF	ON	ON	ON	OFF	1825 ~ 1856	ON	OFF	OFF	ON	ON	ON	ON	3873~3904
OFF	ON	OFF	ON	ON	ON	OFF	1857 ~ 1888	OFF	ON	OFF	ON	ON	ON	ON	3905 ~ 3936
ON	ON	OFF	ON	ON	ON	OFF	1889~1920	ON	ON	OFF	ON	ON	ON	ON	3937 ~ 3968
OFF	OFF	ON	ON	ON	ON	OFF	1921 ~ 1952	OFF	OFF	ON	ON	ON	ON	ON	3969 ~ 4000
ON	OFF	ON	ON	ON	ON	OFF	1953~1984	ON	OFF	ON	ON	ON	ON	ON	4001 ~ 4032
						OFF	1905~2010								4033~4064
						011	2011-2040								-1000 4030

ĺ	SW1-1, to SW1-5 for Groups of 256													
I	With 32 groups of size 256, it is possible to use Bosch camera addresses up to 8192. Each group is converted to Pelco addresses 1 to 256.													
	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Addresses		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Addresses	
I	OFF	OFF	OFF	OFF	OFF	0001~0256		OFF	OFF	OFF	OFF	ON	4097 ~ 4352	
I	ON	OFF	OFF	OFF	OFF	0257~0512		ON	OFF	OFF	OFF	ON	4353 ~ 4608	
I	OFF	ON	OFF	OFF	OFF	0513~0768		OFF	ON	OFF	OFF	ON	4609~4864	
I	ON	ON	OFF	OFF	OFF	0769~1024		ON	ON	OFF	OFF	ON	4865~5120	
I	OFF	OFF	ON	OFF	OFF	1025 ~ 1280		OFF	OFF	ON	OFF	ON	5121~5376	
I	ON	OFF	ON	OFF	OFF	1281 ~ 1536		ON	OFF	ON	OFF	ON	5377~5632	
I	OFF	ON	ON	OFF	OFF	1537 ~ 1792		OFF	ON	ON	OFF	ON	5633 ~ 5888	
I	ON	ON	ON	OFF	OFF	1793~2048		ON	ON	ON	OFF	ON	5889~6144	
I	OFF	OFF	OFF	ON	OFF	2049~2304		OFF	OFF	OFF	ON	ON	6145~6400	
I	ON	OFF	OFF	ON	OFF	2305 ~ 2560		ON	OFF	OFF	ON	ON	6401 ~ 6656	
I	OFF	ON	OFF	ON	OFF	2561~2816		OFF	ON	OFF	ON	ON	6657~6912	
I	ON	ON	OFF	ON	OFF	2817~3072		ON	ON	OFF	ON	ON	6913~7168	
I	OFF	OFF	ON	ON	OFF	3073 ~ 3328		OFF	OFF	ON	ON	ON	7169~7424	
I	ON	OFF	ON	ON	OFF	3329 ~ 3584		ON	OFF	ON	ON	ON	7425~7680	
I	OFF	ON	ON	ON	OFF	3585 ~ 3840		OFF	ON	ON	ON	ON	7681~7936	
I	ON	ON	ON	ON	OFF	3841 ~ 4096		ON	ON	ON	ON	ON	7937~8192	
I														

Note: Pelco "D" code address range is 1 to 255. When using "D" code, addresses 256, 512, 768, etc. can not be used.

INSTALLATION



The Rx indicator will flash while biphase code is being received. Since Bosch code is repeating, it will flash continuously while a camera is being moved. Pelco code is sent only to start or stop an action, or to change a speed. The Tx indicator will flash only when a change is commanded.

If there is no Tx indication, check that the input is indeed Bosch biphase code and that the input wires are not reversed.

If there is Rx but no Tx, possible causes are:

The code sent to the translator is not camera control code.

The command is addressed to a camera that is not in the configured address group.

If the indicators show normal operation but the camera does not respond, possible causes are: The code translator and the camera are not connected correctly.

The camera is not set to the proper address.

The output code type and baud rate do not match the camera's settings.

OPERATION

Bosch Pan, Tilt, Zoom, Focus, Iris, pre-position and lower aux commands are converted to the equivalent Pelco commands. Higher aux commands are used to send Pelco extended commands according to the following table

BOSCH COMMAND [On] /[Off] [1] to [8]	PELCO COMMAND On/Off 1 to 8 (1 is Wiper control for Esprit cameras)
[On]/[Off] [20] [On]/[Off] [21] [On]/[Off] [22]	Auto Focus On/Off Auto Iris On/Off AGC On/Off
[On] [30] to [On] [33] [On] [34] to [On] [37]	Zoom Motor Speed 1 to 4 Focus Moter Speed 1 to 4
[On] [41] to [On] [48] [Off] [41] to [Off] [48]	Program Zone Start 1 to 8 Program Zone End 1 to 8
[On]/[Off] [49]	Zone Scan On/Off
[On] [50]	Flip (Rotate 180 degrees)
[On] [60]	Zero Pan Position
[On] [61] to [On] [68]	Alarm Acknowledge 1 to 8
(Pelco's pattern can be recorded and re [On] [71] [On] [72] [On] [73]	un as either a full pattern or two halves.) Run 1st Half Pattern Run 2nd Half Pattern Run Full Pattern
[On] [81] [On] [82] [On] [83]	Start Recording 1st Half Pattern Start Recording 2nd Half Pattern Start Recording Full Pattern
[Off] [81] [Off] [82] [Off] [83]	End 1st Half Pattern Recording End 2nd Half Pattern Recording End full Pattern Recording
(Pelco domes use high preset numbers [Set] [91] [Set] [92] [Set] [93] [Set] [94]	s for special functions) Pgm Pset 91 (Set Manual Scan Left Limit) Pgm Pset 92 (Set Manual Scan Right Limit) Pgm Pset 93 (Set Auto Scan Left Limit) Pgm Pset 94 (Set Auto Scan Right Limit) (Note: Limits must be enabled via Dome Programming)
[Set] [95]	Pgm Pset 95 Start Dome Program (Use Tilt to navigate the menu and Iris Open to select items.)
[Shot] [96] [Shot] [98] [Shot] [98]	Pset 96 (Stop Scan) Pset 98 (Random Scan) Pset 98 (Frame Scan)