SCT-1024

CAMERA CONTROL CODE TRANSLATOR
PELCO RS-422 to VICON RS-422 Ver. 2.4

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PRODUCT DESCRIPTION

The SCT-1024 is a Pelco to Vicon control code translator designed to permit control of Vicon cameras from Pelco controllers. It receives Pelco RS-422 commands and re-transmits them as Vicon RS-422 commands. There are four independent Vicon outputs.

Internal switches are used to configure the operation of the code translator.
The input can be set for Pelco "D" code at 2400 baud, or "P" code at 4800 or 9600 baud.
The Vicon output can be set to 4800 or 9600 baud.

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 2.4 adds an alterntate method to send the Vicon commands: Aux1, Aux2, Aux3, Aux4, Aux5, Aux6, A/P, A/I, L/S, and Alarm Ack. This is to accomodate control systems that are unable to send the Pelco Aux On commands 1~6.

SPECIFICATIONS

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

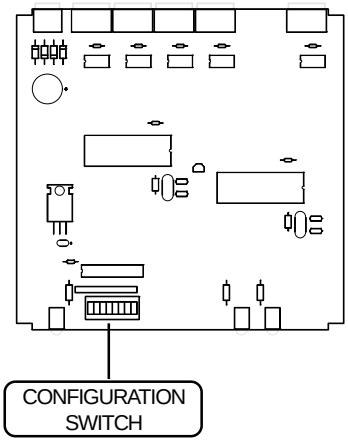
SETTING THE SWITCHES

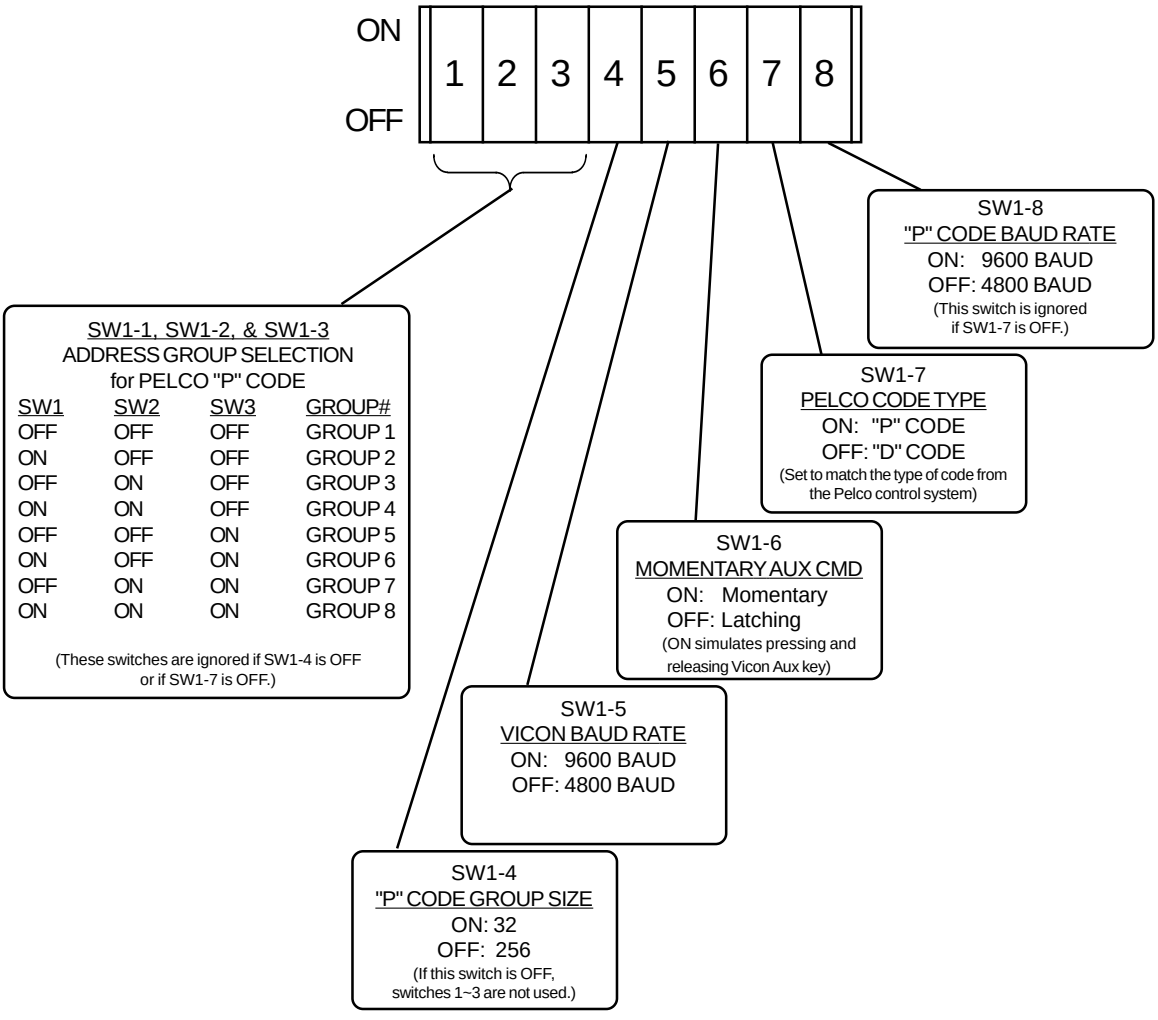
To access the configuration switches, remove the back panel, which is secured by two screws. Then slide cover back to expose the switches. The switches can be changed while the code translator is powered up and the new settings will take effect immediately.

SW1-5 sets the Vicon baud rate.
SW1-7 & SW1-8 set the Pelco code type and baud rate.

Addressing Notes:
If the code translator is configured to receive "D" code, there are no addressing options.

For "P" code, the code translator can be configured with an address input limit of 32 by setting SW1-4 ON. Then the first three switches can be set so that the output code sent to the Vicon receivers can be offset to higher numbers.



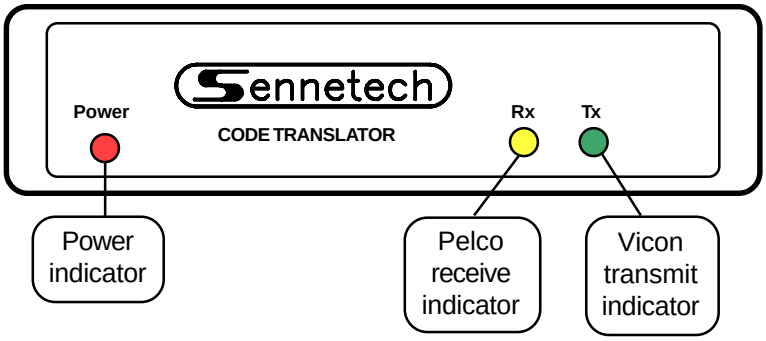


Pelco "P" Code Address Conversion Chart for Groups of 32

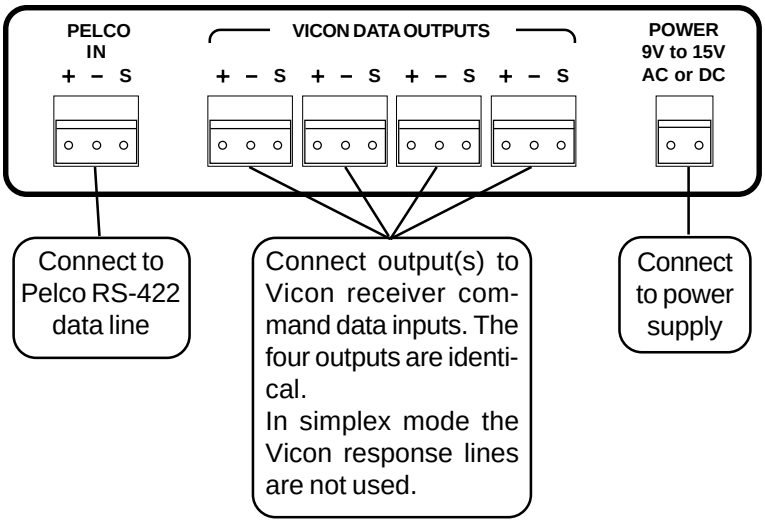
PELCO#	GROUP1 VICON#	GROUP2 VICON#	GROUP3 VICON#	GROUP4 VICON#	GROUP5 VICON#	GROUP6 VICON#	GROUP7 VICON#	GROUP8 VICON#
1	1	33	65	97	129	161	193	225
2	2	34	66	98	130	162	194	226
3	3	35	67	99	131	163	195	227
4	4	36	68	100	132	164	196	228
5	5	37	69	101	133	165	197	229
6	6	38	70	102	134	166	198	230
7	7	39	71	103	135	167	199	231
8	8	40	72	104	136	168	200	232
9	9	41	73	105	137	169	201	233
10	10	42	74	106	138	170	202	234
11	11	43	75	107	139	171	203	235
12	12	44	76	108	140	172	204	236
13	13	45	77	109	141	173	205	237
14	14	46	78	110	142	174	206	238
15	15	47	79	111	143	175	207	239
16	16	48	80	112	144	176	208	240
17	17	49	81	113	145	177	209	241
18	18	50	82	114	146	178	210	242
19	19	51	83	115	147	179	211	243
20	20	52	84	116	148	180	212	244
21	21	53	85	117	149	181	213	245
22	22	54	86	118	150	182	214	246
23	23	55	87	119	151	183	215	247
24	24	56	88	120	152	184	216	248
25	25	57	89	121	153	185	217	249
26	26	58	90	122	154	186	218	250
27	27	59	91	123	155	187	219	251
28	28	60	92	124	156	188	220	252
29	29	61	93	125	157	189	221	253
30	30	62	94	126	158	190	222	254
31	31	63	95	127	159	191	223	255
32	32	64	96	128	160	192	224	

INSTALLATION

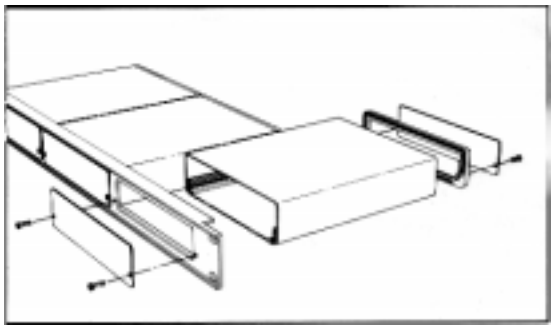
FRONT PANEL



BACK PANEL



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.



OPERATION

The Pelco Pan, Tilt, Zoom, Focus, and Iris commands are converted to the equivalent Vicon commands. Other commands are converted according to the following table.

PELCO COMMAND	VICON COMMAND
[Aux][1][On]	Aux
(If Momentary Aux switch is ON, simulates pressing and releasing Aux key.)	
[Aux][2][On]	A/P
[Aux][3][On]	A/I
[Aux][4][On]	Alarm Acknowledge
[Aux][5][On]	L/S
(Note: Sending [Aux][Off] will send the Vicon stop command.)	
[Aux][6][On]/[Off]	Activate/Deactivate slow speed mode
(In slow speed mode, the code translator divides all pan and tilt speeds by two. Power-up default is deactivated.)	

Pelco preset commands 1 to 99 are converted to Vicon preset commands with the following exceptions.

Pelco goto preset commands 51~60 are converted into these Vicon commands.

Preset 51	Aux1
Preset 52	Aux2
Preset 53	Aux3
Preset 54	Aux4
Preset 55	Aux5
Preset 56	Aux6
Preset 57	A/P
Preset 58	A/I
Preset 59	L/S
Preset 60	Alarm Acknowledge

Here is a listing of Vicon Dome functions for presets 80~99.

Pgm Pesets 80~87	Program Preset Tour 80~87
Preset 80~87	Run Preset Tour 80-87
Pgm Pattern (0 or 1), or Pgm Preset 88	Pgm Auto Tour 88
Pgm Pattern 2 or Pgm Preset 89	Pgm Auto Tour 89
Pattern (0 or 1) or Preset 88	Run Auto Tour 88
Pattern 2 or Preset 89	Run Auto Tour 89
Pgm Preset 90	Lock / Unlock Pan & Tilt
Pgm Preset 94 or Pgm Preset 95	Activate On-screen Menu

Use joystick to navigate, A/P to select, and A/I to exit.
[Aux][2[On] or [Preset][57] = A/P. [Aux][3[On] or [Preset][58] = A/I.

Pgm Preset 96	Soft reset - Autobaud detect
Pgm Preset 98	Set Autopan Left Limit
Pgm Preset 99	Set Autopan Right Limit
Pgm Preset 97	Set Autopan Speed

(After sending this command, deflect the joystick in a pan direction. This will activate autopan and the speed will change with joystick deflection. When the desired autopan speed is reached, press any lens key. Then release the joystick and the dome will continue to autopan at that speed.)