

Sennetech

SCT-1020

**CAMERA CONTROL CODE TRANSLATOR
VICON RS-422 to PELCO RS-422 Ver. 2.3**

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PRODUCT DESCRIPTION

The SCT-1020 is a Vicon to Pelco control code translator designed to permit control of Pelco cameras from Vicon VPS series controllers. It receives Vicon RS-422 commands and re-transmits the appropriate commands in Pelco "D" or "P" code format. There are four independent Pelco outputs.

The SCT-1020 will appear to the Vicon controller as a group of responding receiver/drivers. Internal switches set the low camera number and the high camera number to which the translator will respond.

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).

Changes in version 2.0 from earlier versions:

- Vicon address 256 is handled as configuration switch 000.

- The translator can accept Vicon input at 9600 baud.

- The translator can accept continuous streams of Vicon code from Collectors.

- The configuration switch for fixed speed Vicon code has been eliminated.

Changes in version 2.2:

- Vicon Aux 1&2 Keys toggle Pelco Aux 1&2 On/Off. Auto/Manual scan modes for old Pelco receiver/drivers are moved to Vicon Aux 5&6 keys.

Changes in version 2.3:

- Vicon Aux 1~4 Keys toggle Pelco Aux 1~4 On/Off. Old Pelco receiver On/Off commands are moved to Aux 56. Auto/Manual scan modes for old Pelco receiver/drivers are moved to Vicon AI and LS Keys.

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
VICON CMD IN:	(1) mating 3-pin screw terminal connector
VICON RSP OUT:	(1) mating 3-pin screw terminal connector
PELCO RS-422 OUTPUTS:	(4) mating 3-pin screw terminal connectors

CONFIGURATION 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.

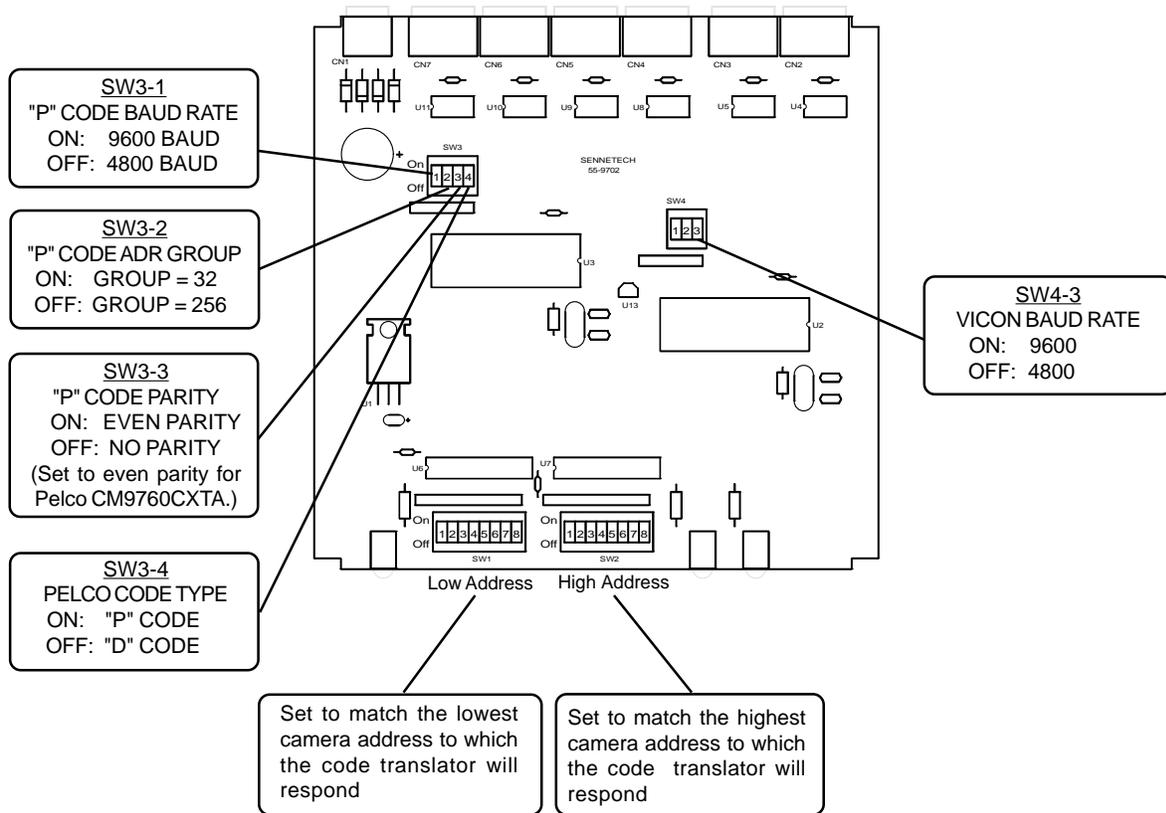
The Pelco code parameters are set by Switch 3.

If "D" code is selected (SW3-4 OFF), the other parts of Switch 3 have no effect and the output will be at 2400 baud.

When "P" code is selected, the output will be either 4800 or 9600 baud.

If connecting to Pelco devices that can not accept "P" code addresses above 32, set SW3-2 ON. Addresses will then be rolled over at multiples of 32 and the low / high address switches should not be more than 32 numbers apart.

Refer to the charts on the following pages for camera address settings.



The preferred method of operation is simplex mode with the response line not connected.

If the response line is connected, the code translator will appear as a group of cameras to the controller. To prevent interference between the responses from the code translator and any Vicon cameras in the system, set the switches to include only the Pelco camera addresses.

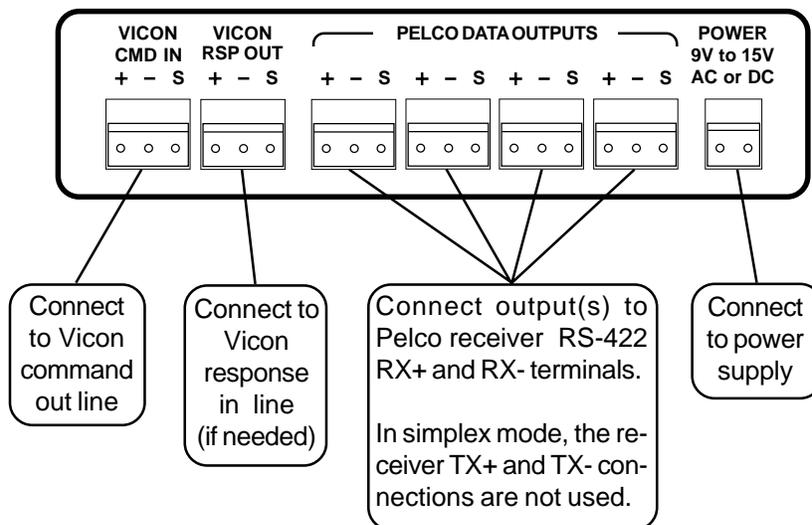
CONVERSION CHART FOR "P" CODE ADDRESS GROUP SIZE OF 32

GROUP 1		GROUP 2		GROUP 3		GROUP 4		GROUP 5		GROUP 6		GROUP 7		GROUP 8	
<u>VICON</u>	<u>PELCO</u>														
1	1	33	1	65	1	97	1	129	1	161	1	193	1	225	1
2	2	34	2	66	2	98	2	130	2	162	2	194	2	226	2
3	3	35	3	67	3	99	3	131	3	163	3	195	3	227	3
4	4	36	4	68	4	100	4	132	4	164	4	196	4	228	4
5	5	37	5	69	5	101	5	133	5	165	5	197	5	229	5
6	6	38	6	70	6	102	6	134	6	166	6	198	6	230	6
7	7	39	7	71	7	103	7	135	7	167	7	199	7	231	7
8	8	40	8	72	8	104	8	136	8	168	8	200	8	232	8
9	9	41	9	73	9	105	9	137	9	169	9	201	9	233	9
10	10	42	10	74	10	106	10	138	10	170	10	202	10	234	10
11	11	43	11	75	11	107	11	139	11	171	11	203	11	235	11
12	12	44	12	76	12	108	12	140	12	172	12	204	12	236	12
13	13	45	13	77	13	109	13	141	13	173	13	205	13	237	13
14	14	46	14	78	14	110	14	142	14	174	14	206	14	238	14
15	15	47	15	79	15	111	15	143	15	175	15	207	15	239	15
16	16	48	16	80	16	112	16	144	16	176	16	208	16	240	16
17	17	49	17	81	17	113	17	145	17	177	17	209	17	241	17
18	18	50	18	82	18	114	18	146	18	178	18	210	18	242	18
19	19	51	19	83	19	115	19	147	19	179	19	211	19	243	19
20	20	52	20	84	20	116	20	148	20	180	20	212	20	244	20
21	21	53	21	85	21	117	21	149	21	181	21	213	21	245	21
22	22	54	22	86	22	118	22	150	22	182	22	214	22	246	22
23	23	55	23	87	23	119	23	151	23	183	23	215	23	247	23
24	24	56	24	88	24	120	24	152	24	184	24	216	24	248	24
25	25	57	25	89	25	121	25	153	25	185	25	217	25	249	25
26	26	58	26	90	26	122	26	154	26	186	26	218	26	250	26
27	27	59	27	91	27	123	27	155	27	187	27	219	27	251	27
28	28	60	28	92	28	124	28	156	28	188	28	220	28	252	28
29	29	61	29	93	29	125	29	157	29	189	29	221	29	253	29
30	30	62	30	94	30	126	30	158	30	190	30	222	30	254	30
31	31	63	31	95	31	127	31	159	31	191	31	223	31	255	31
32	32	64	32	96	32	128	32	160	32	192	32	224	32	256	32

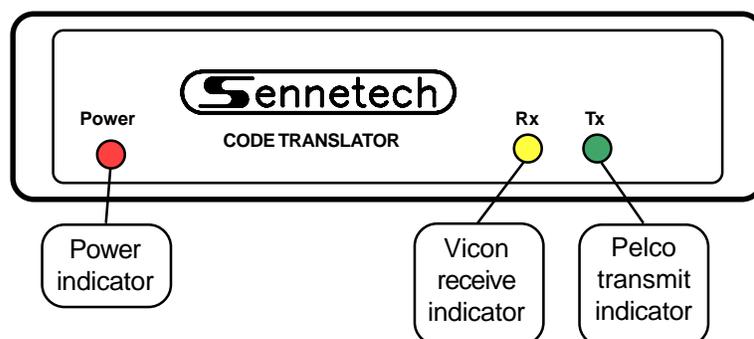
INSTALLATION

The The SCT-1020 code translator should be installed in the Vicon system as if it were a Vicon receiver, i.e. connect the translator's input to a Vicon command data out line.

BACK PANEL



FRONT PANEL



The receive indicator should flash when Vicon code is present on the input. If the code is a camera control command for a camera within the address window, the transmit indicator should flash when the converted Pelco command is sent. Vicon systems "poll" the cameras periodically so the receive indicator will probably flash even when no camera is being controlled.

OPERATION

Vicon Pan, Tilt, Zoom, Focus, and Iris commands are converted directly to the equivalent Pelco commands. For Vicon systems with variable speed capability, the pan and tilt speeds are matched with Pelco speeds.

Vicon [Run] and [Pgm] preset commands are converted to Pelco Goto and Set preset commands.

Pressing the Vicon [A/P] button will initiate Auto Pan for that camera.

Some high number Pelco pre-positions are converted to extended commands in the Pelco domes. For Vicon control systems that can send these pre-positions, they will be converted as follows.

STORING & RUNNING PATTERNS

Pelco domes can run stored patterns. These can be either a whole pattern or two independent halves. To store a pattern, set the Vicon controller to [Pgm] and use preset 75, 76, or 77 to define the start. Then move the camera to define the pattern. When finished, use preset 78 to define the end.

Pgm Preset 75	Define Start of Whole Pattern
Pgm Preset 76	Define Start of 1st half Pattern
Pgm Preset 77	Define Start of 2nd half Pattern
Pgm Preset 78	Define End of Recorded Pattern

To run the stored pattern, set the Vicon controller to [Run] and use preset 75, 76, or 77.

Run Preset 75	Run Whole Pattern
Run Preset 76	Run 1st Half Pattern
Run Preset 77	Run 2nd Half Pattern

SETTING SCAN LIMITS

Pgm Preset 90	Set Manual Scan Left Limit
Pgm Preset 91	Set Manual Scan Right Limit
Pgm Preset 92	Set Auto Scan Left Limit
Pgm Preset 93	Set Auto Scan Right Limit

ON-SCREEN PROGRAMMING MENU

Pgm Preset 95	Activate Pelco On-screen Programming Menu (Use Tilt to navigate the menu and Iris Open to select options.)
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OTHER COMMANDS

Run Preset 81 to 88	Alarm Acknowledge 1 to 8
Run Preset 89	Clear Screen
Run Preset 97	Initiate Random Scan
Run Preset 98	Initiate Frame Scan

AUX

Vicon Aux Keys are converted as follows.

[Aux] [1]	Toggle Pelco Aux 1 On/Off
[Aux] [2]	Toggle Pelco Aux 2 On/Off
[Aux] [3]	Toggle Pelco Aux 3 On/Off
[Aux] [4]	Toggle Pelco Aux 4 On/Off
[Aux] [5]	Camera On (for old Pelco receiver/drivers)
[Aux] [6]	Camera Off (for old Pelco receiver/drivers)
[A/I]	Auto Scan Mode (for old Pelco receiver/drivers)
[L/S]	Manual Scan Mode (for old Pelco receiver/drivers)

Note: If the code translator is connected to a Pelco CM9760CXT configured for 15 bit code,

Run Preset 80	Camera On
Run Preset 81	Camera Off

VICON CONTROLLERS WITH LIMITED PRESET CAPABILITY

If the controller is limited to presets 1 to 10, an alternate method is used to send some of the Pelco extended commands. First press the Vicon [Lens Speed] key. While holding the [Lens Speed] key, send the appropriate Run Preset command according to the following table.

Run Preset 1	Run Recorded Pattern
Run Preset 2	Define Start of Recorded Pattern
Run Preset 3	Define End of Recorded Pattern
Run Preset 4	Initiate Random Scan
Run Preset 5	Activate Pelco On-screen Programming Menu (Use Tilt to navigate the menu and Iris Open to select options.)
Run Preset 6	Set Manual Scan Left Limit
Run Preset 7	Set Manual Scan Right Limit
Run Preset 8	Set Auto Scan Left Limit
Run Preset 9	Set Auto Scan Right Limit
Run Preset 10	Clear Screen

