



## **SCT-1020**

**CAMERA CONTROL CODE TRANSLATOR  
VICON RS-422 to PELCO RS-422 ver 2.0**

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SCT-1020 Ver 2.0



## 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 it 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.

- Can accept Vicon input at 9600 baud.

- Can accept continuous streams of Vicon code from Kollektors.

- Configuration switch for fixed speed Vicon code has been eliminated.

## SPECIFICATIONS

|                       |                                            |
|-----------------------|--------------------------------------------|
| SIZE:                 | 5.57"W x 1.52H x 5.45D                     |
| WEIGHT:               | 1.5 lb                                     |
| 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. Set the switch to either ON or OFF. The switches can be changed with power applied and the changes take effect immediately.

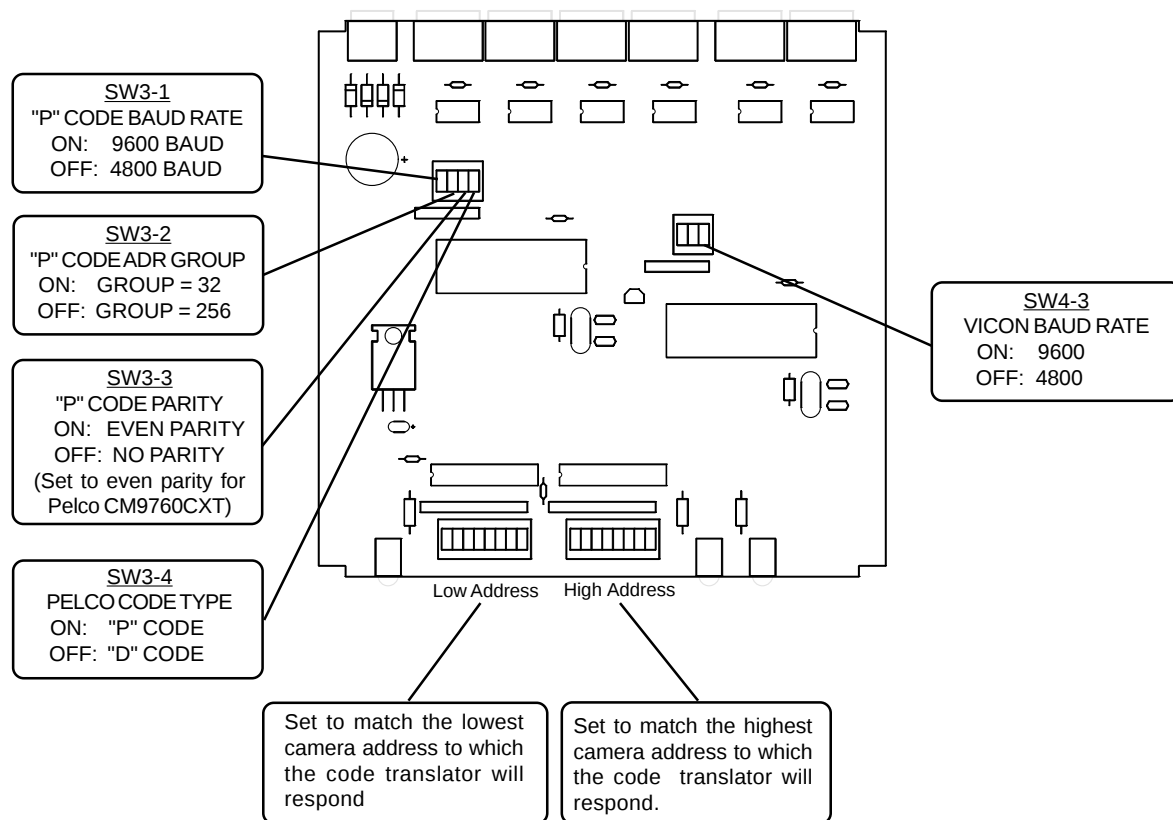
The Pelco code parameters are set by switch 3.

If "D" code is selected, (SW3-4 off), the other parts of switch 3 have no effect and the output is 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.

# CAMERA ADDRESS SWITCH SETTING CHART

☒ ON  
☐ OFF

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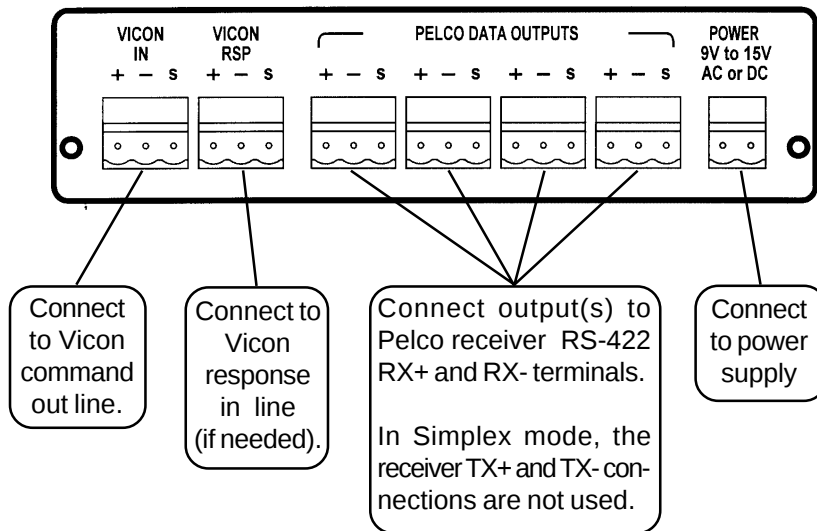
# CONVERSION CHART FOR "P" CODE ADDRESS GROUP SIZE OF 32

| GROUP 1      |              | GROUP 2      |              | GROUP 3      |              | GROUP 4      |              | GROUP 5      |              | GROUP 6      |              | GROUP 7      |              | GROUP 8      |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <u>VICON</u> | <u>PELCO</u> | <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           |

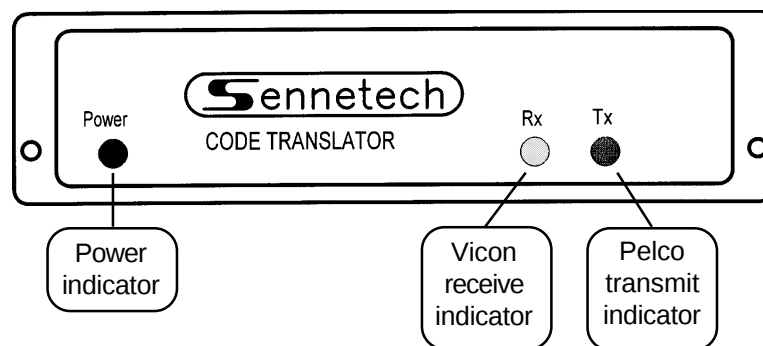
## INSTALLATION

The The SCT-1020 code translator should be installed in the Vicon system as if it were a Vicon receiver, ie connect the input to Vicon cmd data 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 in 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

Operation of the SCT-1020 is transparent to the user. 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 scan 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<br>(use tilt to navigate the menu and iris open to select options) |
|---------------|--------------------------------------------------------------------------------------------------------------|

### 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      |

**AUTO/MANUAL SCAN**

|       |             |
|-------|-------------|
| Aux 1 | Auto scan   |
| Aux 2 | Manual scan |

**CAMERA ON/OFF**

|       |            |
|-------|------------|
| Aux 3 | Camera On  |
| Aux 4 | Camera Off |

Note: if 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 pattern for record                                                                           |
| Run preset 3  | Define end of recorded pattern                                                                               |
| Run preset 4  | Initiate random scan                                                                                         |
| Run preset 5  | Activate Pelco on-screen programming menu<br>(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                                                                                                 |