



## **SCT-1003**

**CAMERA CONTROL CODE TRANSLATOR  
BOSCH BIPHASE to VICON RS-422 Ver. 4.0**

[www.sennetech.net](http://www.sennetech.net)

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## PRODUCT DESCRIPTION

The SCT-1003 is a Bosch to Vicon code translator designed to permit control of Vicon VPS system receivers from Bosch Allegiant controllers. It receives Bosch biphase code and transmits the appropriate commands in Vicon RS-422 format. There are four independent Vicon outputs.

The translator is contained in a standard 19" electronic housing (one rack unit high). Input and output connections are made with removable screw terminals. Front panel LEDs indicate status of power, receive, and transmit.

Internal configuration switches are used to set the operation of the code translator.

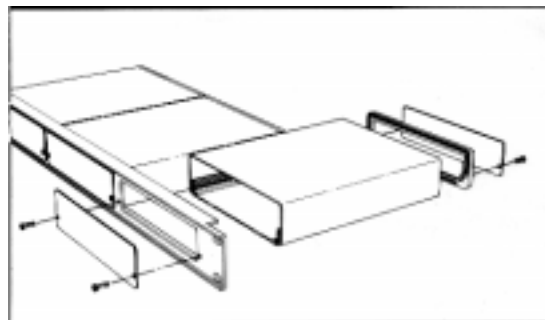
Bosch camera addresses are converted to one of sixteen Vicon address groups of 256.

The Vicon RS-422 output can be either 9600 baud or 4800 baud.

## SPECIFICATIONS

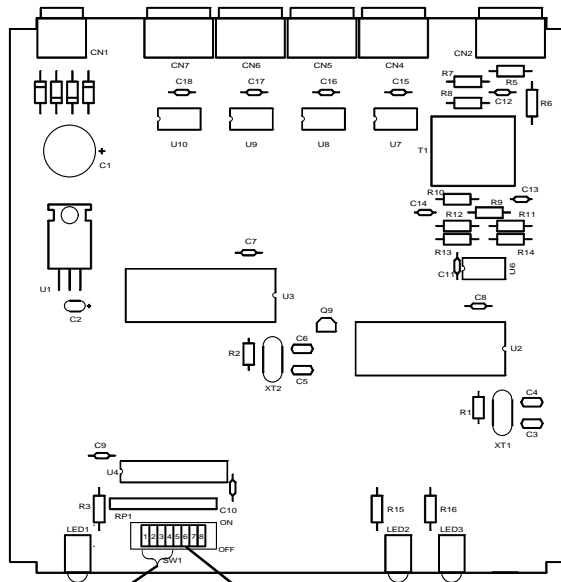
|                      |  |
|----------------------|--|
| SIZE:                | 5.57"W x 1.52H x 5.45D                     |
| WEIGHT:              | 1.5 lbs.                                   |
| POWER:               | 9Volt to 15Volt AC or DC at 75ma           |
| INDICATORS:          | Front panel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



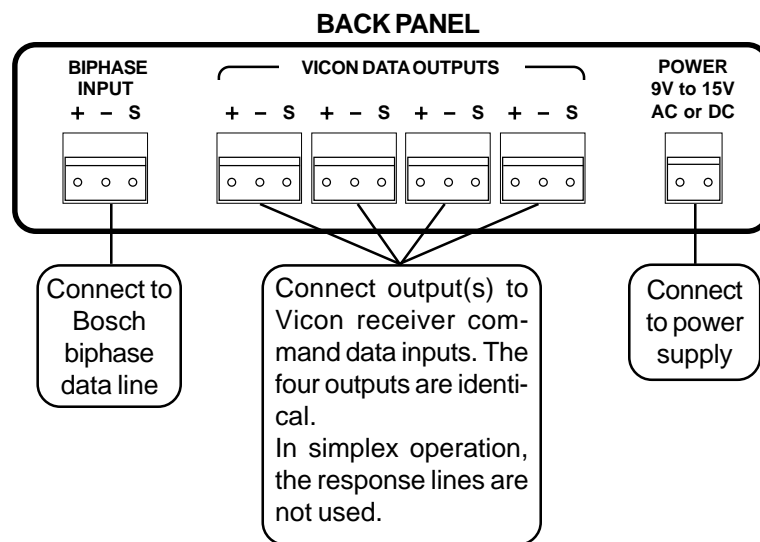
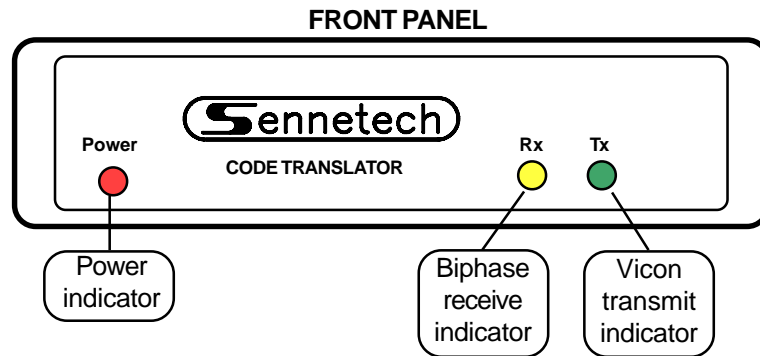
### SW1-1, SW1-2, SW1-3, & SW1-4 ADDRESS GROUP SELECTION

| SW1 | SW2 | SW3 | SW4 | BOSCH     | VICON |
|-----|-----|-----|-----|-----------|-------|
| OFF | OFF | OFF | OFF | 1~256     | 1~256 |
| ON  | OFF | OFF | OFF | 257~512   | 1~256 |
| OFF | ON  | OFF | OFF | 513~768   | 1~256 |
| ON  | ON  | OFF | OFF | 769~1024  | 1~256 |
| OFF | OFF | ON  | OFF | 1024~1280 | 1~256 |
| ON  | OFF | ON  | OFF | 1281~1536 | 1~256 |
| OFF | ON  | ON  | OFF | 1537~1792 | 1~256 |
| ON  | ON  | ON  | OFF | 1793~2048 | 1~256 |
| OFF | OFF | OFF | ON  | 2049~2304 | 1~256 |
| ON  | OFF | OFF | ON  | 2305~2560 | 1~256 |
| OFF | ON  | OFF | ON  | 2561~2816 | 1~256 |
| ON  | ON  | OFF | ON  | 2817~3072 | 1~256 |
| OFF | OFF | ON  | ON  | 3073~3328 | 1~256 |
| ON  | OFF | ON  | ON  | 3329~3584 | 1~256 |
| OFF | ON  | ON  | ON  | 3585~3840 | 1~256 |
| ON  | ON  | ON  | ON  | 3841~4096 | 1~256 |

### SW1-6

#### VICON BAUD RATE

ON: 9600 Baud  
OFF: 4800 Baud



Because of the different nature of Bosch and Vicon code structures, the indicators will show different patterns. The Rx indicator will flicker while Bosch biphase code is being received (if the polarity is reversed, it should not light). The Tx indicator will flash only when the Vicon output command changes. Thus if you initiate a Bosch pan command, the Rx indicator should flicker as long as the joystick is deflected, but the Tx indicator will flash only at the start of the pan and again at the end, or whenever the speed is changed.

The Rx indicator will also indicate if Bosch is sending data other than camera control commands.

## OPERATION

Bosch Pan, Tilt, Zoom, Focus, and Iris commands are converted to the appropriate Vicon commands.

Bosch pre-position commands [Set] and [Shot] [1] through [99] are converted to Vicon Program and Run commands.

Since Bosch Aux commands are repeating, high pre-position commands are used for Vicon toggling commands according to the following table.

| <b><u>BOSCH COMMAND</u></b> | <b><u>VICON COMMAND</u></b> |
|-----------------------------|-----------------------------|
| [Shot] [101]                | Aux 1                       |
| [Shot] [102]                | Aux 2                       |
| [Shot] [103]                | Aux 3                       |
| [Shot] [104]                | Aux 4                       |
| [Shot] [105]                | Aux 5                       |
| [Shot] [106]                | Aux 6                       |
| [Shot] [107]                | Auto Pan                    |
| [Shot] [108]                | Auto Iris                   |
| [Shot] [109]                | Lens Speed                  |
| [Shot] [110]                | Alarm Acknowledge           |

