SCT-100-Vicon-VCL
Vicon RS-422 to VCL RS-485 Code Translator

The code translator converts Vicon RS-422 camera control code into VCL RS-485 code for a single P/T/Z. Only camera commands for the address matching the Address Selector switches is converted.

Input Vicon baud rate can be 4800 or 9600. VCL output baud rate is 9600.

A test mode sends a continuous square movement pattern to the P/T/Z so the wiring and addressing between the translator and the P/T/Z can be checked without a Vicon controller. The input receiver is disabled during test mode.

Vicon Address Selector
Selects the camera address. The valid address range is 001~256

Rx Indicator
Flashes when there is data on the input lines.

Error Indicator
Flashes on input error.

Status Indicator
Lights if an invalid address setting. Flashes during tour progrtamming.

Tx Indicator
Flashes when VCL output code is sent.

Configuration Switches

Switch 1: Vicon Code Baud Rate
On: 9600 baud
Off: 4800 baud

Switch 2: Unassigned
On:
Off:

Switch 3: Unassigned
On:
Off:

Switch 4: Unassigned
On:
Off:

Switch 5: Output VCL Address
On: Always 1
Off: Matches input

Switch 6: Output test code
On: Output test pattern On
Off: Output test pattern Off

The removable mounting clip can be snapped onto a din rail or screwed to a panel or wall.

Insert a small screwdriver in the upper slot to force open the wire clamp. Push in all the way to open fully. Place stripped wire end(s) in the open clamp and withdraw screwdriver.

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Data Input | Pwr | Pwr | Data Output

Connect power to the Pwr inputs. Do not connect power wires to the Gnd.

SPECIFICATIONS

Size:	4.5" x 3.5" x 1.25"
Weight:	0.5 lb
Power:	9~15Volt AC or DC at 75ma
Environmental:	Indoor use only

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NOTES

Addressing
Only camera control code for the camera number set by the Address Switches is converted.

If switch 5 is ON. the output code is always addressed to camera #1. Otherwise, the output code address is determined by the Address Switches. The highest possible VCL address is 128. The output addresses are rolled over at 128. Thus, 129 is converted to 1, 130 is converted to 2, 131 is converted to 3, etc.

Indicators
The **Rx** LED will flash when there is input data. If it is on solid, the input data wires may be reversed.
The **Error** LED will flash if the input on invalid input code.
The **Status** LED illuminates if valid Vicon address is not selected (1~256)
It will flash while the code translator is in VCL tour programming mode.
The **Tx** LED flashes when VCL code is sent.

OPERATION

PTZ
The code translator converts pan, tilt, zoom, focus, and iris code directly.

Presets
Vicon Run & Program Preset commands (1~99) are converted to VCL Seek Preset and Define Preset (1~99).

Other commands are converted according to the following table.

Vicon Command	VCL Command
Aux 1, 2, 3	Toggle Aux 1, 2, 3 On/Off
Aux 4	Toggle Wiper On/Off
Aux 5	Toggle Washer On/Off
Aux 6	Toggle Lamps On/Off
A/P	Run tour 1
A/I	Toggle Auto Iris/Manual Iris
L/S	Toggle Auto Focus/Manual Focus

Tours

Run Preset 81, 82, or 83	Run Tour 1, 2, or 3
Pgm Preset 81, 82, or 83	Define Tour Start 1, 2, or 3

VCL tours consist of a list of presets combined with a speed to that preset and a dwell time at that preset.
To progam a tour, send Vicon Pgm Preset 81, 82, or 83. The code translator sends the VCL define tour start command, the Status LED starts flashing indicating it is in tour programming mode, and the default speed of 30 degrees/second and dwell time of 5 seconds is loaded.

Each time a Pgm Preset command is received, a VCL store tour point data command is sent which includes that preset number, the speed to that preset, and the dwell time at that preset.
The speed or dwell time can be changed at any time during tour programming using the following commands.

On 1~99	Speed = 1~99 degrees/sec (On 100 = max speed)
Off 1~99	Dwell time = 1~99 seconds.

To end programming, send any pan, tilt, zoom, focus, or iris command. The VCL define tour stop command is sent and the code translator returns to normal operation.

Note: If the VCL dome is in define tour mode, it will not respond to any other commands. If for some reason it doesn't get the define tour stop command, it can't be controlled. Use Run Preset 80 or Pgm Preset 80 to resend the define tour stop command to regain control of the dome.