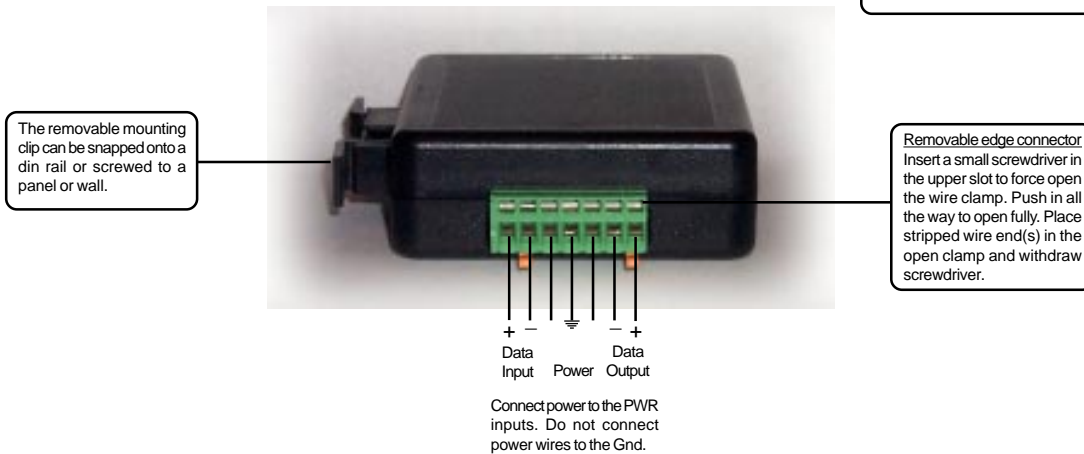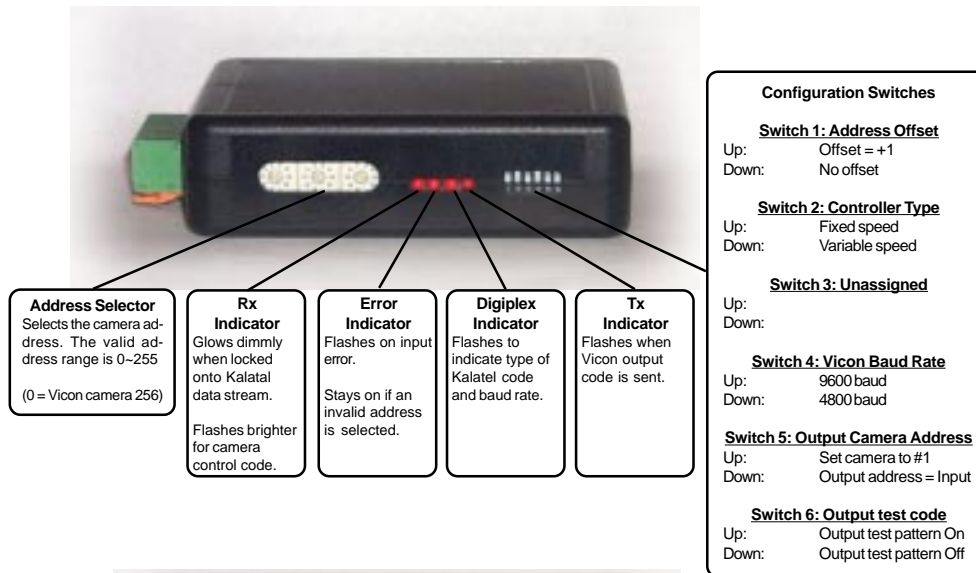# SCT-100-Kalatel-Vicon
Kalatel RS-422 to Vicon RS-422 Code Translator

The code translator converts Kalatel camera control code to Vicon RS-422 code for a single P/T/Z. Only camera commands for the address matching the Address Selector switches will be converted.

Input Kalatel code type and baud rate is detected automatically. Vicon output can be either 4800 or 9600 baud.

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 Kalatel controller.

Configuration Switches

Switch 1: Address Offset
Up: Offset = +1
Down: No offset

Switch 2: Controller Type
Up: Fixed speed
Down: Variable speed

Switch 3: Unassigned
Up:
Down:

Switch 4: Vicon Baud Rate
Up: 9600 baud
Down: 4800 baud

Switch 5: Output Camera Address
Up: Set camera to #1
Down: Output address = Input

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

Address Selector
Selects the camera address. The valid address range is 0~255

(0 = Vicon camera 256)

Rx Indicator
Glows dimmly when locked onto Kalatal data stream.

Flashes brighter for camera control code.

Error Indicator
Flashes on input error.

Stays on if an invalid address is selected.

Digiplex Indicator
Flashes to indicate type of Kalatel code and baud rate.

Tx Indicator
Flashes when Vicon output code is sent.

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

Removable edge connector
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.

+ −   ⏚   − +
Data   Power   Data
Input   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
                 24Volt optional
Environmental: Indoor use only

Sennetech, Inc. 6455 W. Bath Rd. Perry, MI 48872, U.S.A.   Ph (517) 675-1150 Fax (517) 675-1151

Addressing

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

Set switch 1 On if controller sends data to addressed to one number lower than the camera number selected.

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.

Indicators

Even when not controlling a camera, Kalatel sends a continuous stream of data which the code translator automatically locks onto. Once locked, the **Status** LED will flash the type of code found. First, it flashes twice for Digiplex II or three times for Digiplex III. Then it will flash either twice for 2400 baud or four times for 4167 or 4800 baud.

While locked, the **Rx** LED will glow at a low level. Whenever camera control data appears, it will flash brighter.

Input code errors will cause the **Error** LED to flash. If the address switches are not set to a valid address (1~256), the **Error** LED will light continuously.

The **Tx** LED flashes once for each Vicon packet sent.

OPERATION

PTZ

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

Speed

Pan and tilt commands from variable speed Kalatel controllers are converted to proportional Vicon speeds. For fixed speed controllers without joysticks, set switch 2 On. The code translator will assign speeds

Presets

Kalatel [Set][1~63] are converted to Vicon run presets 1~63.
Kalatel Program presets 1~63 are converted to Vicon program presets 1~63.
Some higher prestes can be sent as special commands.

A/P and A/I

Kalatel [Autopan] is converted to Vicon A/P command
Kalatel [Autofocus] is converted to Vicon A/I command

Special Commands

Some Vicon commands are sent by pressing and releasing [Alarm] three times or four times followed by a special command.

KALATEL CMDS	VICON CMD	DESCRIPTION
[Alarm] x 3 + [Autopan]	Alarm acknowledge	Cancels camera alarm message
[Alarm] x 3 + [Set][01~06]	Aux 1~6	

Vicon presets 80 to 99 can be sent using the following method:

[Alarm] x 3 + [Set][40~59]	Run preset 80~99	
[Alarm] x 4 + [Set][40~59]	Program preset 80~99	

Some Vicon Surveyor functions:

[Alarm] x 3 + [Set][40~47]	Run preset 80~87	Run Tour Sequences
[Alarm] x 4 + [Set][40~47]	Program preset 80~87	Progaram Tour Sequences
[Alarm] x 3 + [Set][48~49]	Run preset 88~89	Run Auto Tour Sequences
[Alarm] x 4 + [Set][48~49]	Program preset 88~89	Program Auto Tour Sequences
[Alarm] x 4 + [Set][50]	Program preset 90	Pan/Tilt lockout
[Alarm] x 4 + [Set][54]	Program preset 94	Enter Dome menu system
[Alarm] x 4 + [Set][55]	Program preset 95	Initiate autobaud detect
[Alarm] x 4 + [Set][56]	Program preset 96	Program Dome sectors
[Alarm] x 4 + [Set][57]	Program preset 97	Initiate Dome reset
[Alarm] x 4 + [Set][58]	Program preset 98	Set autopan left limit
[Alarm] x 4 + [Set][59]	Program preset 99	Set autopan right limit