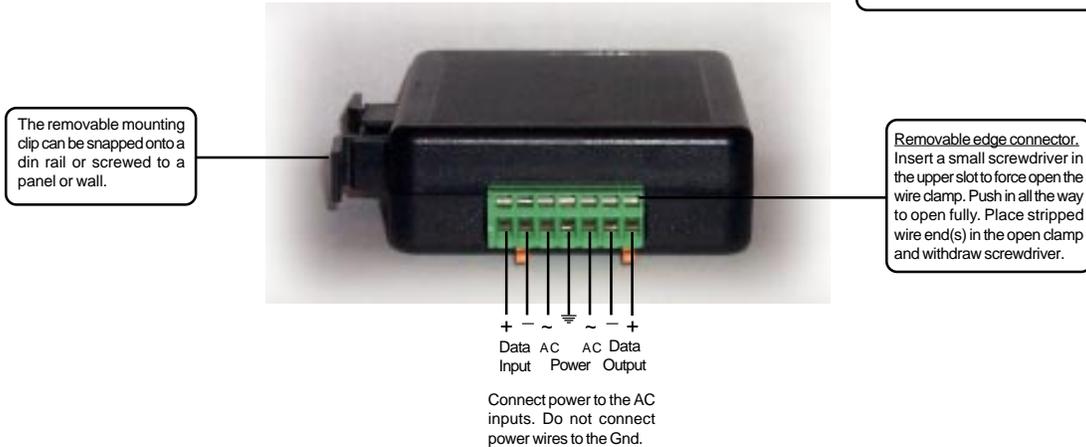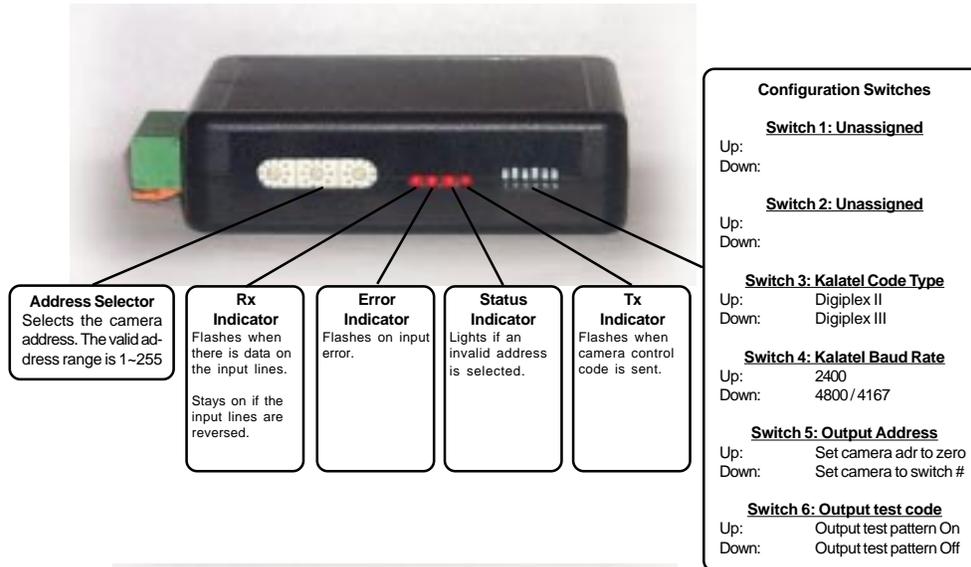# SCT-100-Diamond-Kalatel
Diamond RS-422 to Kalatel RS-422 Code Translator

The code translator converts Diamond camera control code to Kalatel code for a single P/T/Z. Only camera control code for the address matching the Address Selector switches is converted.

Input is Diamond code @ 9600 baud. The Kalatel output can be Digiplex III @ 2400 or 4800 baud, or Digiplex II @ 2400 or 4167 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 Diamond controller. The input receiver is disabled during test mode.

Configuration Switches

Switch 1: Unassigned
Up:
Down:

Switch 2: Unassigned
Up:
Down:

Switch 3: Kalatel Code Type
Up: Digiplex II
Down: Digiplex III

Switch 4: Kalatel Baud Rate
Up: 2400
Down: 4800 / 4167

Switch 5: Output Address
Up: Set camera adr to zero
Down: Set camera to switch #

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 1~255

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

Stays on if the input lines are reversed.

Error Indicator
Flashes on input error.

Status Indicator
Lights if an invalid address is selected.

Tx Indicator
Flashes when camera control 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.

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Data   AC   AC   Data
Input   Power   Output

Connect power to the AC 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

<div align="center">**NOTES**</div>

Switch Settings
Any changes in switch settings are effective immediately, they are not read only on power up.

Addressing
Only camera control code for the camera number set by the Address Switches is converted.
If switch 5 is Off, the receiver's address should match the code translator address.
If switch 5 is On, set the receiver's address to zero.

Kalatel Code Type and Baud Rate
The default postion (switches 3 & 4 Off) is Digiplex III @ 4800 baud.

Indicators
The **Rx** LED will flash when there is data on the input. If the wires are reversed, it will stay on.

The **Error** LED will flash if the input code is not recognized as valid Diamond code.

The **Status** LED will light if the address switches are not set to a valid address (1~255).

The **Tx** LED flashes for each camera control packet sent.

<div align="center">**OPERATION**</div>

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

Presets
Diamond presets from 1~99 are converted to Kalatel presets

Aux On/Off
Diamond Aux Off and On commands are converted as follows:

Diamond Command	Kalatel Command
Aux 1 On	Auto-pan
Aux 2 On	Auto-focus
Aux 3 Off	Receiver Off
Aux 3 On	Receiver On
Aux 4 Off	Close
Aux 4 On	Open
Aux 5 Off	Slow
Aux 5 On	Fast