RS232 Controlled Video Switcher

This is a small matrix controlled by RS232 commands. Any one of the 17 inputs can be connected to any of the four outputs. When linked with a Darlex multiway keyboard, 17 up to 34 Darlex Digital Recorders can be controlled and viewed from one position. Multiple RS232 controlled switchers can be linked together. The Switchers are controlled from our keyboards or your own electronics/PC.

features

- 17 X 4 Matrix Switcher.

- It can be controlled by a PC or Tecton Keyboard.

- Simplifies large system design.

- Monitor multiple units onto one video screen.

Technical Specification

Video Inputs	17 Colour/ BW
Video Outputs	4
Dimensions	(W)450 X (D)150 X (H)50mm/ (W)17.1 X (D)5.9 X (H)1.9" One 'U' Rack mounting
Weight	1KG or 2.2lb
Power	12vDC 800mA

Connection Details

The simplest way to connect the RS232 switcher to a PC is to buy the loom from Tecton. The part number is "DRLPC1". Alternatively, a loom can be made as described below. The RS232 switcher is controlled via the 25way 'D' connector on the rear panel marked 'RS232 Input'. This should be connected to a serial port of a PC (or transmitting device)

RS232 Switcher	PC	PC
(25 way 'D')	(25 way 'D')	(9 way 'D')
5 (RXD)	2	3
6 (TXD)	3	2
4 (GND)	7	5
	Connect 4,6 and 8 together	Connect 1,6 and 7 together
	Connect 5 and 20 together	Connect 4 and 8 together

Connection Details

The unit should be connected to the keyboard as follows:

Remote keyboard	RS232 Switcher	
(9 way 'D' socket)	(25 way 'D' socket)	
3	5	(RXD)
5	4	(GND)

Communication Protocol

The unit is controlled by RS232. The format of the Data is shown below.

Data Format

9600 Baud, 8 Data bits, 1 start bit, 1 stop bit,

No parity, No Handshaking.

Commands

To switch an input to an output, the following command should be used. The format is standard ascii:

siioo<ret>   Where s = 73h

ii = Camera input

(01 to 17)

oo = Video output

(01 to 04)

<ret> = 0dh

Tecton