Audio/Video Control Serial Interface

HoverCam

Ultra 8 RS232 Commands and Serial Port Pinouts

List of Commands and Their Function:

A/V Command	Function
PON	Power On
POFF	Power Off
VGA	Select VGA Video Output at current VGA resolution
VGA1	Select VGA Video Output at 640x480
VGA2	Select VGA Video Output at 800x600
VGA3	Select VGA Video Output at 1024x768
HDMI	Select HDMI Video Output at current HDMI resolution
HDMI1	Select HDMI Video Output at 1280x720
HDMI2	Select HDMI Video Output at 1920x1080
ZOOM+	Increase Zoom value by 10
ZOOM-	Decrease Zoom value by 10
ZOOM*val*	Set Zoom value to *val* from 0 to 100
PAN+	Increase Pan value by 10
PAN-	Decrease Pan value by 10
PAN*val*	Set Pan value to *val* from -100 to +100
TILT+	Increase Tilt value by 10
TILT-	Decrease Tilt value by 10
TILT*val*	Set Tilt value to *val* from -100 to +100

ROT	Toggle Video Rotation
ROT0	Set Video Rotation to 0 degrees
ROT1	Set Video Rotation to 180 degrees
AFEN	Auto Focus Enable
AFLOCK	Auto Focus Lock

Serial Communication:

Port Type:	RS-232		**Parity:**	None
Baud Rate:	9600		**Stop Bits:**	1
Data Bits:	8		**Flow Control:**	None

Pin Assignments:

mini-DIN 8P to RS232-DB9

mini-DIN 8P   RS232-DB9

signal   pin   signal   pin

TxD	1	→	RxD	2
RxD	7	→	TxD	3
GND	4	→	GND	5

● Interface format

1	Communication method	RS-232C, 9600bps, No Parity, Data Length: 8 bits; Stop Bit Length: 1 bit
2	Communication format	STX (02h) Command (3Byte) ETX (03h) Only 1 command valid per communication.
3	Data format	For input commands, only ASCII-compliant all-uppercase alphanumeric characters supported.

4 Replies   Acknowledge   ACK (06h) CR (0Dh) Data ... Normally ended

                                    ACK (06h) ESC (1Bh) ... Aborted

              No acknowledge   NAK (15h)

If commands are to be sent consecutively, wait for the response from the projector before sending the next command.

Sample command string:

Termite 3.1 (by CompuPhase)   _ □ ✕

| COM9 9600 bps, 8N1, no handshake | Settings | Clear | About | Close |

02 50 4f 46 46 03 0a   .POFF..

02 50 4f 4e 03 0a   .PON..

\X02PON\X03 ◀━━━ SAMPLE STRING   ↵