

plasma Enhancer™

Appendix: Serial programming interface

Introduction

This section of the document describes the remote control protocol for controlling Plasma Enhancer PE1000 / Plasma Enhancer PE1000 Pro via the rs232 interface

Data transfer format:

Transfer rate: 19200bps

1 start bit, 8 data bits, 1 stop bit, no parity, no flow control

Command formats

Communication between the remote control and the Plasma Enhancer PE1000 / Plasma Enhancer PE1000 Pro takes the form of sequences of ASCII characters, with all commands having the same basic format.

Each transmission (except some special commands) by the remote control shall be three bytes long in the following format:

<CMD><ENTER>

Special commands (BRI, CON, COL, SHP, NSR and OVS) by the remote control shall be six bytes long in the following format:

<CMD><VALUE><ENTER>

Command Lists

<i>Power management</i>	
PON	Power on Plasma Enhancer series
POF	Power off Plasma Enhancer series
<i>Input Selection</i>	
SDI	SDI input (available for PE1000 Pro)
YB1	YPbPr / Component AV1 input
VD1	Video1 input
SV1	S-Video1 input
SCT	Scart input (available for PE1000 Pro)

SV2	S-Video2 input (available for PE1000)
VD3	Video3 input
SV3	S-Video3 input
TVC	TV Tuner input
HD1	HDMI1 input
HD2	HDMI2 input
VGA	VGA DB15 input
<i>OSD Operation</i>	
SET	Setup
ESC	Escape
UPK	Up arrow key
DWN	Down arrow key
RIG	Right arrow key
LEF	Left arrow key
KY0	Key pad 0
KY1	Key pad 1
KY2	Key pad 2
KY3	Key pad 3
KY4	Key pad 4
KY5	Key pad 5
KY6	Key pad 6
KY7	Key pad 7
KY8	Key pad 8
KY9	Key pad 9
<i>Deinterlacer</i>	
AUT	Auto
VID	Video
22E	2:2 even pulldown
22O	2:2 odd pulldown
N30	NTSC@30
<i>Aspect Ratio</i>	
4T3	4:3
169	16:9
FLS	Full Screen
LBX	16:9 LetterBox
235	2.35:1
NLS	Non-Linear sketching / Natural NLS

<i>Video level (Special)</i>	
BRI(-999 ~ 999)	Brightness Control
CON(-18 ~ 014)	Contrast Control
COL (-99 ~ 099)	Color Control
SHP(000 ~ 099)	Sharpness Control
<i>Noise Reducer (Special)</i>	
NSR(000~004)	
- Value 0	Noise reducer off
- Value 1	Noise reducer low
- Value 2	Noise reducer middle
- Value 3	Noise reducer high
- Value 4	Noise reducer super
<i>Overscan</i>	
OVS(000~009)	
- Value 0	Overscan off
- Value 1	Overscan 1%
- Value 2	Overscan 2%
- Value 3	Overscan 3%
- Value 4	Overscan 4%
- Value 5	Overscan 5%
- Value 6	Overscan 6%
- Value 7	Overscan 7%
- Value 8	Overscan 8%
- Value 9	Overscan 9%
<i>TV Operation</i>	
CHU	Channel Up
CHD	Channel Down
AUD	Audio toggle mode
<i>Profile Operation</i>	
PFR	Recall profile (then send number pad value to select profile id)
<i>Miscellaneous</i>	
INF	Information on LED
MUT	Mute the audio output