

ELITE PLASMA DISPLAY

RS-232C Control

PRO-950HD

June 2007

RS232C Control for Pioneer Plasma Displays

1.0 Communication mode

1.1 Communication mode – Changing Baud Rate (from default 9600BPS)

Baud rate selection.

With the plasma display in “Standby”, press and release the Home Menu key then press and release the Power key within 3 seconds. A small banner menu will appear at the bottom of the screen.



In this menu the user can change the communication mode and baud rate using the Left and Right keys. UART SELECT: 1200bps/2400bps/4800bps/9600bps (232C default)/19200bps/38400bps

Push the Home Menu key to close the banner menu and return to normal operation.

1.2 RS-232C Cable & Communication Settings

All 2007 plasma display models use a “Straight” or “Pass-Through” Cable

1) Connector
D-sub 9 pins (male)

2) Pin layout

Pin No.	Signal	Pin No.	Signal
1	NC (not connected)	6	NC (not connected)
2	TxD (Transmit Data)	7	NC (not connected)
3	RxD (Receive Data)	8	RTS (Request To Send)
4	NC (not connected)	9	NC (not connected)
5	GND		

3) Baud Rate
9600 bps (standard)
(switch-able to 1200, 2400, 4800, 19200, 38400 bps)

Note
The panel's baud rate should be set to match the computer's baud rate.
Also, when extending the RS-232C cable over a long distance, lower the baud rate.

4) Data format
Start: 1 bit
Data: 8 bit
Parity: 0 (no parity)
Stop: 1 bit

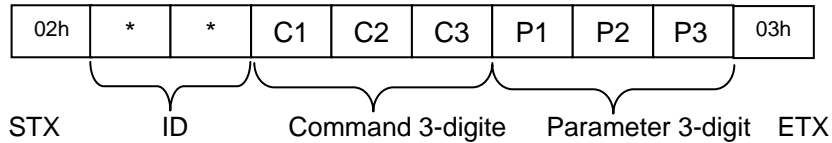
2. Communication procedure

To send control commands from a computer/controller via a RS-232C connection.

Pioneer plasma displays do not support hardware hand-shaking. Enter a command then wait for a response or an appropriate amount of time before entering the next command.

2.1 Command Format with parameter

These commands are examples and may not apply specifically to the model that you are controlling: please check the model specific control chart that follows.



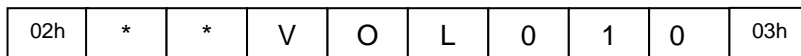
STX	Start condition (fixed value 02h)
ID	Fixed value ** (** is the value for consumer displays)
Command	3byte (ASCII)
Parameter	3byte (ASCII)
ETX	Stop condition (fixed value 03h)

Parameter

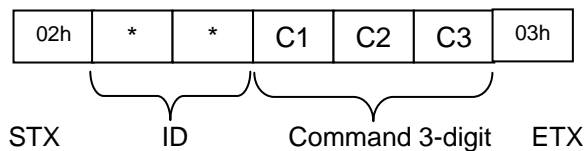
Parameter	Description
000~999	
UPx	Up x step (x = 0-9)
DWx	Down x step (x = 0-9)

Command example

Set volume at 10: 02, **, VOL, 010, 03



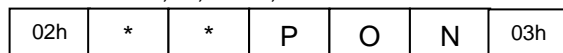
2.2 Command Format without parameter



STX	Start condition (fixed value 02h)
ID	Fixed value ** (** is the value for consumer displays)
Command	3byte (ASCII)
ETX	Stop condition (fixed value 03h)

Command example

Power On: 02, **, PON, 03



Programming Examples

Input 1 Command when using a Crestron brand controller: \x02**inps01\x03.

Input 1 Command when using an AMX brand controller SEND_STRING dvPLASMA, "\$02,'**INPS01',\$03".

2.5 Restriction

1. The GUI is not displayed about the operation when using RS232C.
2. Last memory is not carried out about the performed operation by RS232C.
3. When an input selection is performed by a RS232C command (INPSP01...INPS06) PIP is canceled and the single screen display of the input that was chosen appears.

3. Commands for the Elite PRO-950HD

COMMAND	PARAMETER	FUNCTION
POF		Power OFF
PON		Power ON
VOL		Volume Status
VOL	xxx	Volume Level Value (xxx = 000 - 060)
VOL	UPx	(x = 1-9) Increase value 1 – 9
VOL	UP0	Increase value by 10
VOL	UPF	Set To MAXIMUM value
VOL	DWx	(x = 1-9) Decrease value 1 – 9
VOL	DW0	Decrease value by 10
VOL	DWF	Set To MINIMUM value
AMT		AUDIO Mute Status
AMT	S00	AUDIO Mute OFF
AMT	S01	AUDIO Mute ON
INP		INPUT Status
INP	S01	INPUT 1 (S-Video/Composite)
INP	S02	INPUT 2 (Component/Composite)
INP	S03	INPUT 3 (Component/Composite)
INP	S04	INPUT 4 (HDMI)
INP	S05	INPUT 5 (HDMI)
INP	S06	INPUT 6 (HDMI)
INP	S07	INPUT 7 (HDMI)
INP	S08	PC Input (D-Sub 15)
AVS		AV Selection Status
AVS	S01	AV Selection : STANDARD
AVS	S02	AV Selection : DYNAMIC
AVS	S03	AV Selection : MOVIE
AVS	S04	AV Selection : GAME
AVS	S06	AV Selection : PURE (Elite Only)
AVS	S07	AV Selection : USER
AVS	S08	AV Selection : ISF-DAY (Elite Only - after calibration)
AVS	S09	AV Selection : ISF NIGHT (Elite Only - after calibration)
AVS	S10	AV Selection : Optimum
SZM		Screen Size Status
SZM	S01	Screen Size : 4:3
SZM	S02	Screen Size : FULL
SZM	S03	Screen Size : ZOOM
SZM	S04	Screen Size : CINEMA
SZM	S05	Screen Size : WIDE
MST		Multi-Window Status
MST	S00	Single-Window Display
MST	S01	Multi-Window : Split Screen (2)
MST	S02	Multi-Window : Sub Picture Bottom Right
MST	S03	Multi-Window : Sub Picture Upper Right
MST	S04	Multi-Window : Sub Picture Upper Left
MST	S05	Multi-Window : Sub Picture Bottom Left
MST	S08	SWAP Main & Sub Pictures
VMT		VIDEO Mute Status
VMT	S00	Video Mute On
VMT	S01	Video Mute Off
OSD		ON-SCREEN Display Status
OSD	S00	OSD Display OFF
OSD	S01	OSD Display ON
SRS	S00	SRS OFF
SRS	S01	SRS ON

COMMAND	PARAMETER	FUNCTION
TBS		TRUBASS Status
TBS	S00	TRUBASS OFF
TBS	S01	TRUBASS ON
FCS		FOCUS Status
FCS	S00	FOCUS OFF
FCS	S01	FOCUS ON
INA	xxx	Antenna A analog xxx channel (example: channel 35 = INA035)
INB	xxx	Antenna B analog xxx channel (example: channel 81 = INB081)
INA		Antenna A
INB		Antenna B
CHN	FWD	Channel Up
CHN	REV	Channel Down
MSP		SAP/Mono/Stereo Toggle
RMC	S00	0 – Direct Input
RMC	S01	1 – Direct Input
RMC	S02	2 – Direct Input
RMC	S03	3 – Direct Input
RMC	S04	4 – Direct Input
RMC	S05	5 – Direct Input
RMC	S06	6 – Direct Input
RMC	S07	7 – Direct Input
RMC	S08	8 – Direct Input
RMC	S09	9 – Direct Input
RMC	S38	• (Dot) – Direct Input
RMC	S39	Channel Enter
RMC	S40	Channel Return
RMC	S25	Home Menu
RMC	S41	Display
RMC	S42	Return
INH		HOME MEDIA GALLERY
RMC	S10	Right Key
RMC	S11	Left Key
RMC	S12	Up Key
RMC	S13	Down Key
RMC	S14	Enter Key
RMC	S15	Red
RMC	S16	Green
RMC	S17	Yellow
RMC	S18	Blue
RMC	S20	Freeze
RMC	S43	TV Guide
RMC	S44	Day +
RMC	S45	Day -
RMC	S46	Page +
RMC	S47	Page -
RMC	S48	TV Guide Info
RMC	S49	Stop
RMC	S50	Play
RMC	S51	Pause
RMC	S52	Fast Forward
RMC	S53	Fast Reverse
RMC	S54	HDMI Control