

ELITE PLASMA DISPLAY

RS-232C Control

PRO-111FD
PRO-151FD

June 2008

RS232C Control for Pioneer Elite 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 2008 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: **None**
Stop: 1 bit

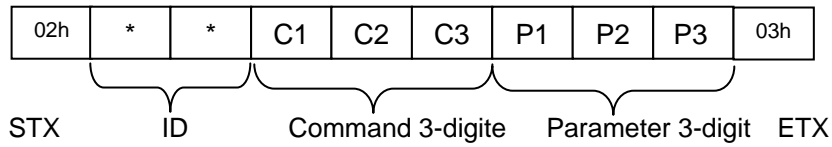
2. Communication procedure

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.



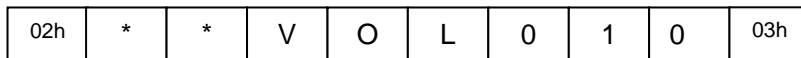
STX	Start condition (fixed value 02h)
ID	Fixed value ** (** is the value for consumer displays)
Command	3byte (ASCII)
Parameter	3byte (ASCII)
ETX	Stop condition (fixed value 03h)

Parameter

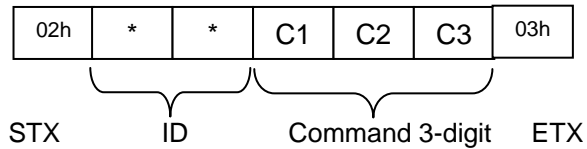
Parameter	Description
000~999	
UPx	Up x step (x = 0-9)
DWx	Down x step (x = 0-9)

Command example

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



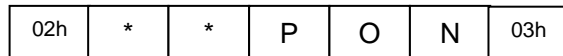
2.2 Command Format without parameter



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. Last memory is not carried out by the performed operation with RS232C.
2. 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-111FD & PRO-151FD

Command	Name	Function
AMT	A MUTE	Current status of "A MUTE"
AMT + S00	A MUTE NO	Audio Mute OFF
AMT + S01	A MUTE YES	Audio Mute ON
AVS	AV Selection	Current status of "AV Selection"
AVS + S01	AV Selection: PERFORMANCE*	Set AV Selection "PERFORMANCE" **"STANDARD" for PC input
AVS + S03	AV Selection: MOVIE	Set AV Selection "MOVIE"
AVS + S04	AV Selection: GAME	Set AV Selection "GAME"
AVS + S05	AV Selection: SPORTS	Set AV Selection "SPORTS"
AVS + S06	AV Selection: PURE	Set AV Selection "PURE"
AVS + S07	AV Selection: USER*	Set AV Selection "USER" * only for PC input
AVS + S08	AV Selection: isf - DAY	Set AV Selection "isf-Day"
AVS + S09	AV Selection: isf - NIGHT	Set AV Selection "isf-Night"
AVS + S10	AV Selection: OPTIMUM	Set AV Selection "OPTIMUM"
AVS + S11	AV Selection: isf - AUTO	Set AV Selection "isf-Auto"
AVS + S12	AV Selection: Standard*	Set AV Selection "Standard" *not for PC input
CHN + FWD	CHANNEL FWD	Forward TV channel singly
CHN + REV	CHANNEL REV	Reverse TV channel singly
FCS	FOCUS STATUS	Current status of "FOCUS"
FCS + S00	FOCUS OFF	Set "FOCUS" OFF
FCS + S01	FOCUS LOW	Set "FOCUS" LOW
FCS + S02	FOCUS MID	Set "FOCUS" MID
FCS + S03	FOCUS HIGH	Set "FOCUS" HIGH
GDI	Get Command for Status	
INA	Analog TV A	Select "Analog Terrestrial Input"
INC	Digital TV	Select "Digital Terrestrial Input"
INH	HOME MEDIA GALLERY	HOME MEDIA GALLERY
INP	INPUT	Current status of "INPUT"
INP + S01	INPUT 1	Select "INPUT1"
INP + S02	INPUT 2	Select "INPUT2"
INP + S03	INPUT 3	Select "INPUT3"
INP + S04	INPUT 4	Select "INPUT4"
INP + S05	INPUT 5	Select "INPUT5"
INP + S06	INPUT 6	Select "INPUT6"
INP + S07	INPUT 7	Select "INPUT7"
INP + S08	INPUT 8	Select "PC" input
MSP	Sound Multiplex (Language)	Switch sound multiplex (I/II/Mono)
MST	MULTI SCREEN	Current status of "MULTI SCREEN"
MST + S00	MULTI SCREEN0	Single-Window Display
MST + S01	MULTI SCREEN1	Multi-Window : 2 Screen (Main Screen Size : Normal)
MST + S02	MULTI SCREEN2	Picture-in-Picture (Lower Right)
MST + S03	MULTI SCREEN3	Picture-in-Picture (Upper Right)
MST + S04	MULTI SCREEN4	Picture-in-Picture (Upper Left)
MST + S05	MULTI SCREEN5	Picture-in-Picture (Lower Left)
MST + S08	MULTI SCREEN8	SWAP (Switch images between Main- and sub-screen)
OSD	OSD DISP	Current status of "OSD DISPLAY"
OSD + S00	OSD DISP NO	OSD OFF
OSD + S01	OSD DISP YES	OSD ON

Command	Name	Function
POF	POWER OFF	
PON	POWER ON	
RMC+S00	Numeric button "0"	Direct input of value "0"
RMC+S01	Numeric button "1"	Direct input of value "1"
RMC+S02	Numeric button "2"	Direct input of value "2"
RMC+S03	Numeric button "3"	Direct input of value "3"
RMC+S04	Numeric button "4"	Direct input of value "4"
RMC+S05	Numeric button "5"	Direct input of value "5"
RMC+S06	Numeric button "6"	Direct input of value "6"
RMC+S07	Numeric button "7"	Direct input of value "7"
RMC+S08	Numeric button "8"	Direct input of value "8"
RMC+S09	Numeric button "9"	Direct input of value "9"
RMC+S10	Arrow button "RIGHT"	Direct input of arrow button "RIGHT"
RMC+S11	Arrow button "LEFT"	Direct input of arrow button "LEFT"
RMC+S12	Arrow button "UP"	Direct input of arrow button "UP"
RMC+S13	Arrow button "DOWN"	Direct input of arrow button "DOWN"
RMC+S14	"ENTER" button	Direct input of "Enter" button
RMC+S15	Color button "Red"	Direct input of color button "Red"
RMC+S16	Color button "Green"	Direct input of color button "Green"
RMC+S17	Color button "Yellow"	Direct input of color button "Yellow"
RMC+S18	Color button "Blue"	Direct input of color button "Blue"
RMC+S25	HOME MENU	Display menu / Direct input of "HOME MENU" button
RMC+S38	".(DOT)" button	Direct input of ". (DOT)" button
RMC+S39	"CH ENTER" button	Direct input of "CH ENTER" button
RMC+S40	"CH RETURN" button	Direct input of "CH RETURN" button
RMC+S41	"DISPLAY" button	Direct input of "DISPLAY" button
RMC+S42	"RETURN" button	Direct input of "RETURN" button
RMC+S49	"STOP" button	Direct input of "STOP" button
RMC+S50	"PLAY" button	Direct input of "PLAY" button
RMC+S51	"PAUSE" button	Direct input of "PAUSE" button
RMC+S52	"FF" button	Direct input of "FF" button
RMC+S53	"REW" button	Direct input of "REW" button
RMC+S54	"HDMI CTRL" button	Direct input of "HDMI CTRL" button
RMC+S55	"TOOLS" button	Direct input of "TOOLS" button
RMC+S56	"EXIT" button	Direct input of "EXIT" button
SDF	SRS DEFINITION	Current status of "SRS DEFINITION"
SDF + S00	SRS DEFINITION OFF	Set "SRS DEFINITION" OFF
SDF + S01	SRS DEFINITION LOW	Set "SRS DEFINITION" LOW
SDF + S02	SRS DEFINITION MID	Set "SRS DEFINITION" MID
SDF + S03	SRS DEFINITION HIGH	Set "SRS DEFINITION" HIGH
SRS	SRS STATUS	Current status of "SRS"
SRS + S00	SRS OFF	Set "SRS" OFF
SRS + S01	SRS LOW	Set "SRS" LOW
SRS + S02	SRS MID	Set "SRS" MID

Command	Name	Function
SRS + S03	SRS HIGH	Set "SRS" HIGH
SZM	Screen Mode	Current status of "Screen Mode"
SZM + S00	Screen Mode 0	Set "Screen Mode" 『Dot by Dot』
SZM + S01	Screen Mode 1	Set "Screen Mode" 『4 : 3』
SZM + S02	Screen Mode 2	Set "Screen Mode" 『FULL 』
SZM + S03	Screen Mode 3	Set "Screen Mode" 『ZOOM』
SZM + S04	Screen Mode 4	Set "Screen Mode" 『CINEMA』
SZM + S05	Screen Mode 5	Set "Screen Mode" 『WIDE』 for SD signal or 『WIDE1』 for HD signal
SZM + S11	Screen Mode Auto	Set "Screen Mode" 『Auto』
SZM + S12	Screen Mode WIDE2	Set "Screen Mode" 『WIDE2』 for HD signal
TBS	TRUBASS	Current status of "TRUBASS"
TBS + S00	TRUBASS OFF	Set "TRUBASS" OFF
TBS + S01	TruBASS LOW	Set "TRUBASS" LOW
TBS + S02	TruBASS MID	Set "TRUBASS" MID
TBS + S03	TruBASS HIGH	Set "TRUBASS" HIGH
VMT	V MUTE	Current status of "V MUTE"
VMT + S00	V MUTE NO	Set "Picture Off" OFF
VMT + S01	V MUTE YES	Set "Picture Off" ON
VOL	VOLUME	Current status of "VOLUME"
VOL + ***	VOLUME	Control audio volume (Assigned Value : 000~060)
VOL + UP + * (0~9)	VOLUME UP	Volume up increasing the current vol. (Assigned Value : 1~9 / 0 : by "10")
VOL + UP + F	VOLUME UP to max vol. (60)	
VOL + DW + * (0~9)	VOLUME DOWN	Volume down reducing the current vol. (Assigned Value : 1~9 / 0 : by "10")
VOL + DW + F	VOLUME DOWN to min vol. (0)	