



I. Driver Features

1. Command Format

This device is controlled through RS-232.

2. RS-232 Commands

Power On	Source: Video	Menu	Auto Image
Power Off	Source: S-Video	Adj Up	Keystone Inc
Volume Up	Source: RGB 1	Adj Down	Keystone Dec
Volume Down	Source: RGB 2	Adj Left	Zoom In
AV Mute	Source: Network	Adj Right	Zoom Down
	Source: Image Viewer	Enter	
		Cancel	

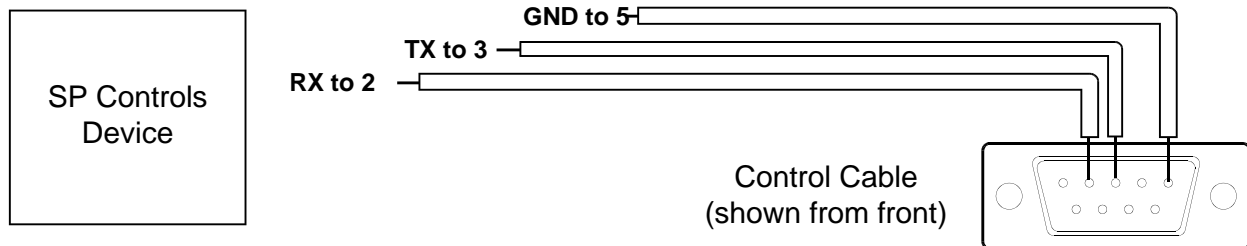
3. Other Driver Features

Default Power Status Feedback: RS-232 Polling

Projector Restart Lockout Timer (Default): 100 Seconds

II. RS-232 Control Wiring

Wire RS-232 control to a male DB9 as follows, and connect to the **PLUS serial adapter cable (not included, must be separately ordered from PLUS)**



Connect PLUS adapter cable to projector port labeled *PC CONTROL*.

Serial Adapters (for NRC only): A & B

III. Setting the PLUS to BAUD 9600

The PLUS projector must be configured to BAUD rate 9600 bps for use with this driver. There is currently no way to set the PLUS port BAUD rate other than directly connecting to the projector with a terminal emulator (e.g. HyperTerminal). To set the PLUS to BAUD 9600:

- 1) Connect your PC serial com port to the projector RS-232 port using the PLUS RS-232 adapter cable (not included with projector).
- 2) Launch HyperTerminal. or other terminal program.
- 3) Configure com port settings to 115kbps, 8N1, no flow control.



4) Terminal *carriage return* settings should send *line feeds*. To set carriage returns to append line feeds with HyperTerminal:

- a) In the PROPERTIES window, select the SETTINGS tab.
- b) Select ASCII SETUP
- c) Check the box labeled SEND LINE ENDS WITH LINE FEEDS
- d) Click OK

5) PLUS uses two-byte commands with a 1 byte header (#), followed by a carriage return and line feed. ASCII commands in ALL CAPS (case sensitive).

6) DO NOT send any commands other than those specified in this document.

7) The command to switch the projector from its default to 9600 bps is:

#CE [CR] [LF].

The projector will neither echo nor acknowledge this command.

8) You may wish to verify success by setting the terminal to 9600 and sending a few commands, such as:

#P1 [CR] [LF] power on

#P0 [CR] [LF] power off

#SR [CR] [LF] RGB source select

#SV [CR] [LF] video source select

When correctly executed, all of these commands should send an acknowledge string.