

**NOTE:** This one-page document is intended **only as a quick reference for installation** – please read the SP Controls Application Note for a complete description of this projector driver prior to installation.

## I. Driver Features

### 1. Input Selection Mapping

Selection 1:	VIDEO
Selection 2:	S-VIDEO
Selection 3:	RGB 1
Selection 4:	RGB 2

### 2. Hidden Function Mapping (Default Configuration)

Using the ON button as a shift key, press the following buttons to access the specified projector features.

Selection 1:	MUTE
Selection 2:	ENTER
Selection 3:	ADJUST LEFT
Selection 4:	ADJUST RIGHT
Off:	MENU
Volume Up:	ADJUST UP
Volume Down:	ADJUST DOWN

### 3. Other Driver Features

Power Status Feedback Method	RS-232 Power Polling
Control Wiring:	RS-232 and IR-Emitter

### **II. Wiring Specifications**

NOTE: For a wiring diagram, please see the SP Controls Application Note following this document.

### 1. RS-232:

Wire the Panel RS-232 port to a male DB9 as follows:

RX to	2		
TX to	3		
GND to	5		

Connect this male DB9 to the projector port labeled SERIAL.

### 2. Infrared Emitter:

Wire the Panel IR/Serial port to a female 1/8" Mini as follows:

IR/SER to	tip

GND to ring



This document describes the SmartPanel Projector Driver for the **Panasonic PT-L711XU** projector. This driver is also appropriate for use with the Panasonic **PT-L701XU**, **PT-L501XU**, **PT-L711U**, **PT-L701U**, and **PT-L501U** projectors. For more information on configuring and using the Panel see the *SmartPanel Configuration and Installation Manual*.

# I. PROJECTOR CONTROL

### A. Volume and Power Control

Volume control on the Panasonic is absolute.

### **B. Input Selection Mapping**

The following table specifies the factory-preset input mapping for this Driver. The **Configuration Utility** can be used to customize these settings your installation.

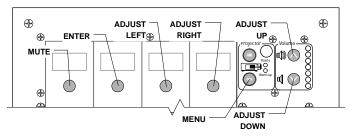
Selection 1:	VIDEO
Selection 2:	S-VIDEO
Selection 3:	RGB 1
Selection 4:	RGB 2

Input choices available for the Panasonic with this Driver are VIDEO, S-VIDEO, RGB 1 and RGB 2.



The following table specifies the factory preset hidden function mapping for this Driver. The **Configuration Utility** can be used to customize these settings your installation.

Selection 1:	MUTE
Selection 2:	ENTER
Selection 3:	ADJUST LEFT
Selection 4:	ADJUST RIGHT
Off:	MENU
Volume Up:	ADJUST UP
Volume Down:	ADJUST DOWN

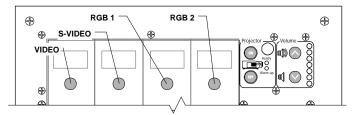


Hidden functions names are based on the Panasonic remote and controls on top of the projector. *Adjust* controls navigate through onscreen menus. Hidden functions are accessed by pressing the indicated key while the holding the **On** key down.

*MUTE* is a toggling A/V mute. *STANDARD* returns picture adjustment values to factory default settings.

AUTO SETUP only works when RGB inputs are selected.

*INDEX WINDOW* splits the screen into two tiles, one showing a frozen image and one showing the live feed.



The hidden functions available for the Panasonic with this Driver are as follows:

MENU ADJUST LEFT ADJUST RIGHT ADJUST UP ADJUST DOWN ENTER

STANDARD FREEZE MUTE DIGITAL ZOOM UP DIGITAL ZOOM DOWN AUTO SETUP

D. Relays

The following table specifies the factory preset settings for the low-current relays found on the rear of the **SmartPanel.** The **Configuration Utility** can be used to customize these settings your installation.

Relay 1	ON Maintained
Relay 2	ON Momentary
Relay 3	OFF Momentary
Selection	Momentary; not Binary

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INDEX WINDOW

#### E. Other Presets

The following table specifies other default factory settings for this Driver that affect is control of the Projector.

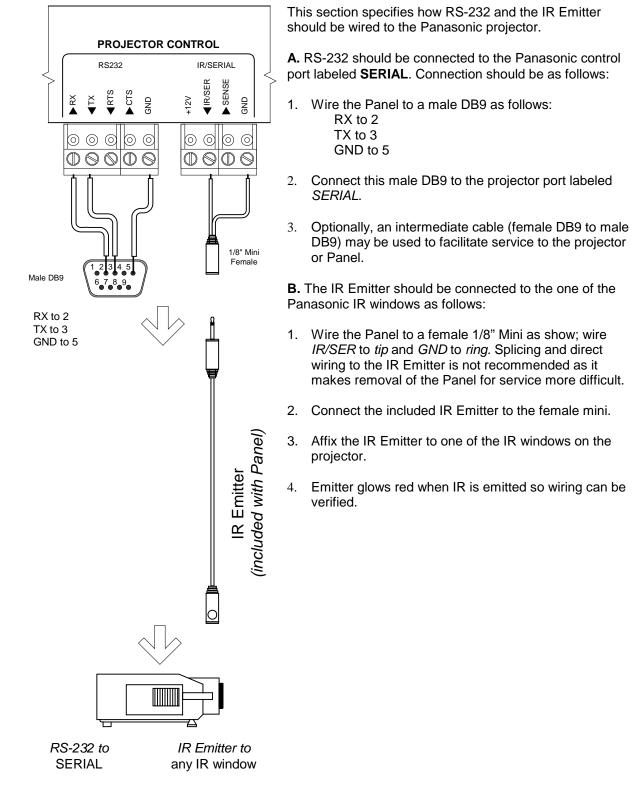
Power Status Feedback Method	RS-232 Polling (see note 1)
Control Wiring Option	IR Emitter (see note 2)

Both RS-232 and the IR Emitter must be wired to control the Panasonic. Wired Remote is not an option as the PT-L711XU does not have a wired remote input.

The following table specifies settings for the Panel's configurable timers. For more information on the inactivity shutdown feature and the lockout timer see the *SmartPanel Configuration and Installation Manual* 

Lockout Timer	67 seconds (see note 3)
Inactivity Shutdown	Disabled

## **II. CONTROL WIRING**



## **III. TROUBLESHOOTING**

Addition tips can be found in the SmartPanel Configuration and Installation Manual.

The Panel does not completely control the projector..

Full control of the projector requires wiring of both the infrared emiiter *and* RS-232. Make sure that RS-232 is correctly connected through Panasonic's *SERIAL* port. Also be sure that the IR Emitter bud is firmly seated on one of the projector IR windows.

The Panel does not do anything at all.

When power is applied to the Panel it should run through a brief power on self-test, during which all of the Panel lights will turn on and off in sequence. If you do not see this self test, make sure power is connected correctly and that polarity is correct.

The Panel keeps turning itself off even though the projector is on.

The Panel turns itself off when power polling indicates that the projector is off. Check to make sure the RS-232 connection is correctly wired (it is extremely unlikely other control would work, and power polling not).

#### When I try to turn the projector on, the warming indicator (red LED) blink.

The projector is in the default configured *lockout state*, and the Panel is waiting for its internal lockout timer to expire. This feature protects the projector's bulb. Be sure to let your client know about this behavior.

## **IV. TECHNICAL NOTES**

- By default, projector power is verified by polling every few seconds via the RS-232 port. Power polling can be suspended by depressing and holding the **On** key; polling will be restored when the key is released. Should the Panasonic power off, the Panel will usually detect this condition and power off within thirty seconds. Should the Panasonic power on, the Panel will usually detecting this condition and power on within ten seconds. Power polling is suspended on the Panasonic during a nonconfigurable seventy second *lockout* following the sending of power off.
- 2. IR must be wired to control the Panasonic as it does not have a Wired Remote port.
- 3. The lockout timer specifies the amount of time allowed between sending POWER OFF and POWER ON to the projector (the delay allows the projector bulbs to cool before re-powering). This delay can be configured using the Configuration Utility; however, adjusting the lockout timer delay is strongly discouraged as rapid re-powering causes undue wear on the projector's bulbs.

## **V. REVISION HISTORY**

1. Revision A (January, 2002)