Enabling and Configuring the Unifi™ 35 Projector Room Control Feature

Applies to: SMART Board™ 660i and 680i interactive whiteboard systems with Unifi™ 35 projectors with firmware version 1.2.13 or later

Overview

You can connect a computer or room control system to the Unifi 35 projector's serial (RS-232) interface to externally manage the SMART Board 600i interactive whiteboard system. Using a connected computer or room control system, you can select video inputs, control audio volume and turn off the system. You can also request information such as projector lamp usage, current settings and network addresses.

This article describes how to configure your Unifi 35 projector for external control using a computer or room control system, and includes the commands you can use to change and view the projector settings.

Details

NOTE: Your Unifi 35 projector must be running firmware version 1.2.13 or later to enable its RS-232 interface and to enable external control.

To enable and use the Unifi 35 projector's room control feature, you must:

- enable the Unifi projector's room control mode.
- configure the connected computer or room control system's serial interface.
- program your room control system to use the Unifi projector's room control commands.

IMPORTANT When the Unifi 35 projector is in Room Control mode, you can only use its RS-232 interface for command inputs and responses. You must connect your computer to the extended connection panel's USB interface to work interactively with the SMART Board 660i series interactive whiteboard system.

To enable room control using Unifi software's on-screen menu

1. Turn on the SMART Board 600i interactive whiteboard system.
2. Select any input source in Unifi software's on-screen menu.
3. Press **Settings.**
4. Press **Advanced Settings**.

   The *Advanced Settings* dialog box appears.
5. Press the wrench icon.

   The *Setup* window appears.
6. Select **Room Control Mode** option.
7. Use the on-screen navigation buttons to select **Enable**, and then press **Enter**.
8. Press **Close**.

To configure your serial interface settings

The Unifi 35 projector's serial interface settings aren't configurable. Therefore, you must configure your computer's serial communication program, such as Microsoft® HyperTerminal, or your room control system's serial communication settings to the following values.

Data rate	9600 bps
Data bits	8
Parity	None
Stop bits	1
Flow control	None

To verify that the serial interface is in Room Control mode

1. Turn on your computer and start your serial communications program.
2. Connect the computer to the Unifi projector's serial connector using a straight-through DB9M-to-DB9F cable.

   NOTE: Unifi 35 projectors manufactured before February 2007 have a male DB9 connector. You need a straight-through DB9F-to-DB9F RS-232 cable to connect the projector to the computer.
3. Configure the serial communication parameters as listed previously.
4. Press **Enter**.

   If your configuration is correct and the Unifi projector is in room control mode, the **>** character appears.
5. To see a list of available commands, type **?**, and then press **Enter**.

Command Summary

The Unifi 35 projector responds to the following commands:

SET Commands

Command	Description
set input vga	Selects the VGA projector input
set input dvi-d	Selects the DVI-D projector input
set input dvi-a	Selects the DVI-A projector input
set input component	Selects the component projector input
set input composite	Selects the composite projector input
set input s-video	Selects the S-video projector input
set input scratchpad	Selects ScratchPad mode
set brightness=(+ or -) or (range 0 to 100)	Increases or decreases the brightness in increments using +(value) or -(value), or sets the brightness to an absolute value from 0 (off) to 100 (full brightness)
set contrast=(+ or -) or (range 0 to 100)	Increases or decreases the contrast in increments using +(value) or -(value), or sets the contrast to an absolute value from 0 (minimum contrast) to 100 (maximum contrast)
set volume=(+ or -) or (range 0 to 30)	Increases or decreases the volume in increments using +(value) or -(value), or sets the volume to an absolute value from 0 (off) to 30 (full volume)

Power Control Commands

Command	Description
off	Turns off the Unifi 35 projector after a 30 second delay, unless a user cancels the command from the on-screen interface
off now	Turns off the Unifi 35 projector immediately

Configuration Commands

Command	Description
factory reset	Sets all configuration settings to default values

Query Commands

The Unifi 35 projector provides these responses to the following query commands:

Command	Description	Response
get brightness	Requests the projector's current brightness setting	brightness=
get contrast	Requests the projector's current contrast setting	contrast=
get volume	Requests the projector's current volume setting	volume=
get fwver	Requests the projector's firmware version	FW version=
get macaddr	Requests the projector's MAC (Ethernet) address	MAC address=
get ipaddr	Requests the projector's IP (network) address	IP address=
get lamphrs	Requests the number of hours that the projector lamp has been in use	lamp hours=
get syshrs	Requests the number of hours that the projector has been in use	system hours=
get powerstate	Requests the current projector state i.e., on, off or cooldown	powerstate=
get input	Requests the projector's current input	input=

NOTES

- You must press **Enter** after each command.
- Commands aren't case-sensitive.

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