



KD-WP8-3 & PJLink®

Pre-Programmed Projects for Projector Control via Installed Button Interface

KD-WP8-3 IP, RS-232, IR 8 Button Control Keypad

The Key Digital® KD-WP8-3 is an eight-button control keypad. It fits into a single-gang wall box and is PoE-powered. Program the KD-WP8-3 via web GUI to send commands directly to IP-controlled devices over the network. Additionally, it can also send commands to RS-232 and IR devices through the built-in control port.

PJLink®

PJLink is a unified standard for operating and controlling data projectors. PJLink control is supported by thousands of projector models with wired or wireless network capability. Please refer to your projector's manual or control document to confirm PJLink support.

Setup and Connectivity

PJLink control achieved is over the network, using port 4355. Set the projector to a static IP address, enable network control, and follow the projector's manual to ensure that PJLink control is fully allowed.

KD-WP8-3 requires PoE power from a network switch or a PoE injector.

Use the included USB A to Micro data cable and [KDMS Pro](#) software to set the keypad's static IP address following the Configuration steps on pg 8 of the [KD-WP-3 Setup Guide](#).

(Optional) If using Key Digital Switcher, set the static IP address using the above-mentioned KDMS Pro software.

(Optional) If using Key Digital [KD-Amp220](#), connect RS-232 from KD-WP8-3 to the amp with the keypad's TxD pin connecting into the amplifier's RxD pin, and ground to ground.

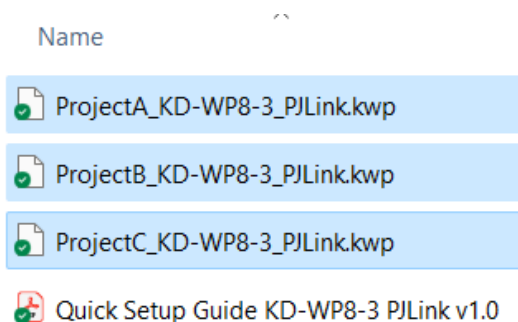
Pre-Programmed Project Files

Due to the popularity of PJLink projector integration with the KD-WP8 series of keypads, Key Digital has created these three project files for you to download, import, and control your PJLink supported projector:

Project A: KD-WP8-3 and PJLink Projector only

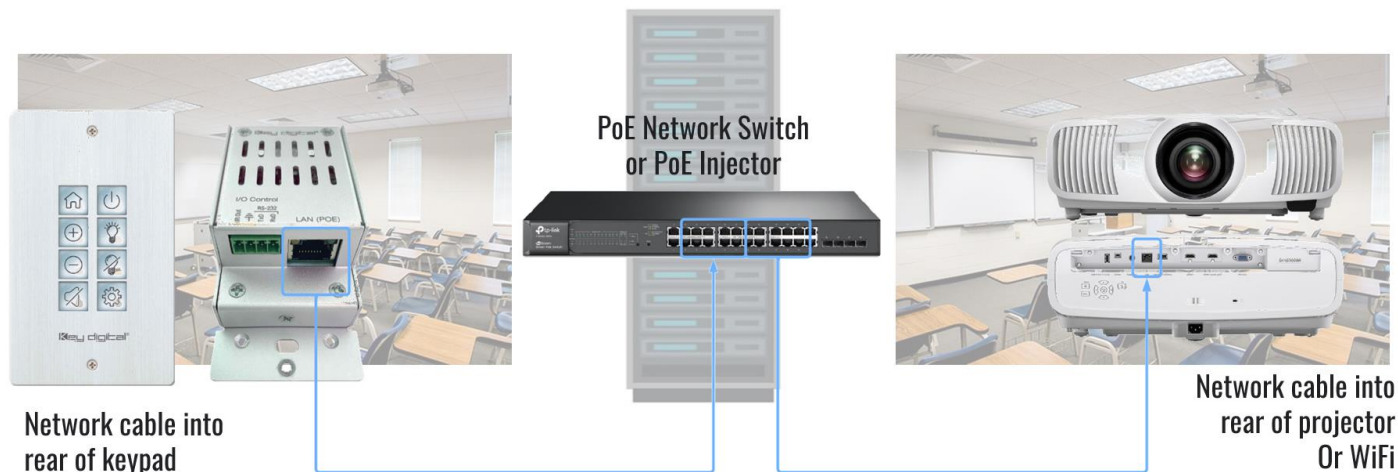
Project B: KD-WP8-3, PJLink Projector, and KD-Amp220 amp/pre-amp. All volume commands go to the KD amplifier.

Project C: KD-WP8-3, PJLink Projector, KD-Amp220, Key Digital Switcher ([UCC](#) or [Pro Series](#)). All volume commands go to the KD amplifier, and all source selection commands go to the KD switcher.

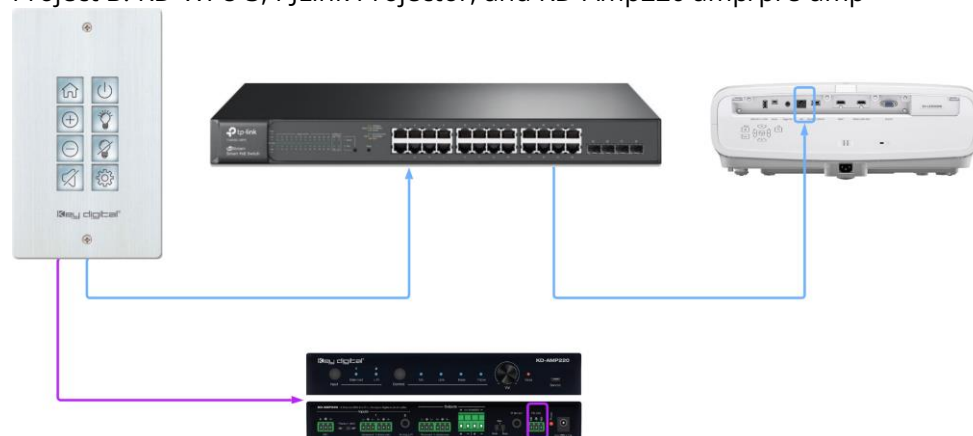


System Diagrams:

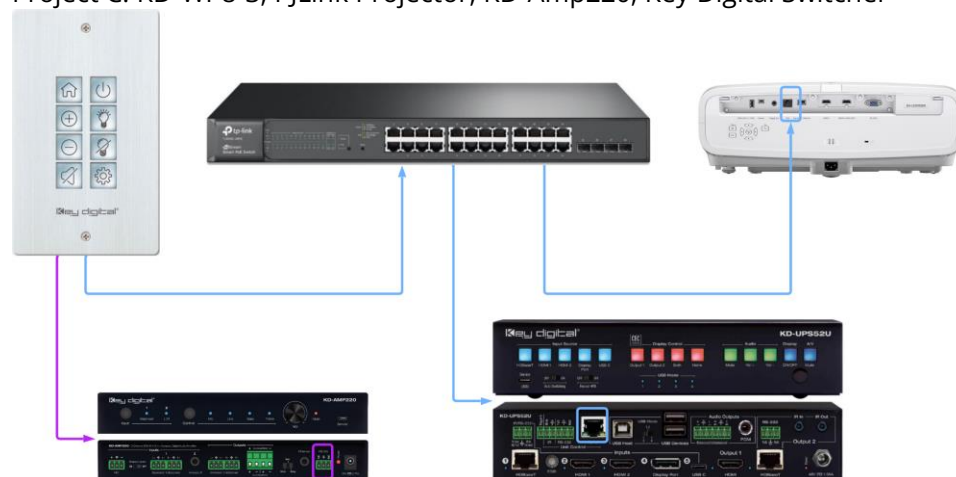
Project A: KD-WP8-3 and PJLink Projector only



Project B: KD-WP8-3, PJLink Projector, and KD-Amp220 amp/pre-amp



Project C: KD-WP8-3, PJLink Projector, KD-Amp220, Key Digital Switcher



Import Project:

With KD-WP8-3 on your network, enter KD-WP8-3's IP address into your web browser to open the web UI. Go to the IMPORT PROJECT sub-menu, press the BROWSE FILE button, and choose Project A, B, or C as desired from their location on your computer.

Project Programming Details:



Button	Command Sent	Project A	Project B	Project C
1	Power On	To projector	To projector To amplifier	To projector To amplifier
2	Power Off	To projector	To projector To amplifier	To projector To amplifier
3	Volume +	To projector	To amplifier	To amplifier
4	HDMI 1	To projector	To projector	To switcher
5	Volume -	To projector	To amplifier	To amplifier
6	HDMI 2	To projector	To projector	To switcher
7	Audio Mute	To projector	To amplifier	To amplifier
8	A+V Mute	To projector	To projector To amplifier	To projector To amplifier

(Optional) Edit Programming:

IMPORTANT: For the purposes of providing a completed programming file, the following IP addresses were used for each device.

KD-WP8-3: 192.168.1.239

PJLink Projector: 192.168.1.240

KD Switcher: 192.168.1.241

To change the IP Address on each command, enter the keypad's web UI, go to EVENTS, choose a button 1-8, and for any IP COMMAND type event, enter the correct IP address. Repeat for each of the 8 buttons.

Additional programming edits may be achieved following the programming instructions in KD-WP8-3's Setup & Programming Guide.

DEVICE INFO

NETWORK

IMPORT PROJECT

BUTTONS & VARIABLES

EVENTS

EXPORT / LOAD

VIRTUAL KEYPAD

FIRMWARE

Button Events : Button 1 ? Hover mouse for helpful tips

1

2

3

4

5

6

7

8

Copy: --Source

Paste: --Dest

Duplicate Apply

Button Name: On

Button Type: Normal

Button Action: Press

Event 1: PJ Pwr On

Event Type: IP Command

IP Type: TCP

IP Address: 192.168.1.240

IP Port: 4352

Data Type: HEX

Data: 25,31,50,4F,57,52,20,31,0D

Delay After Send: 0.1 Seconds

Load Project to Keypad:

In KD-WP8-3's web UI, go to EXPORT / LOAD and choose LOAD TO KEYPAD to load the program file into the keypad. You must complete this step regardless of if you edited the programming or not.

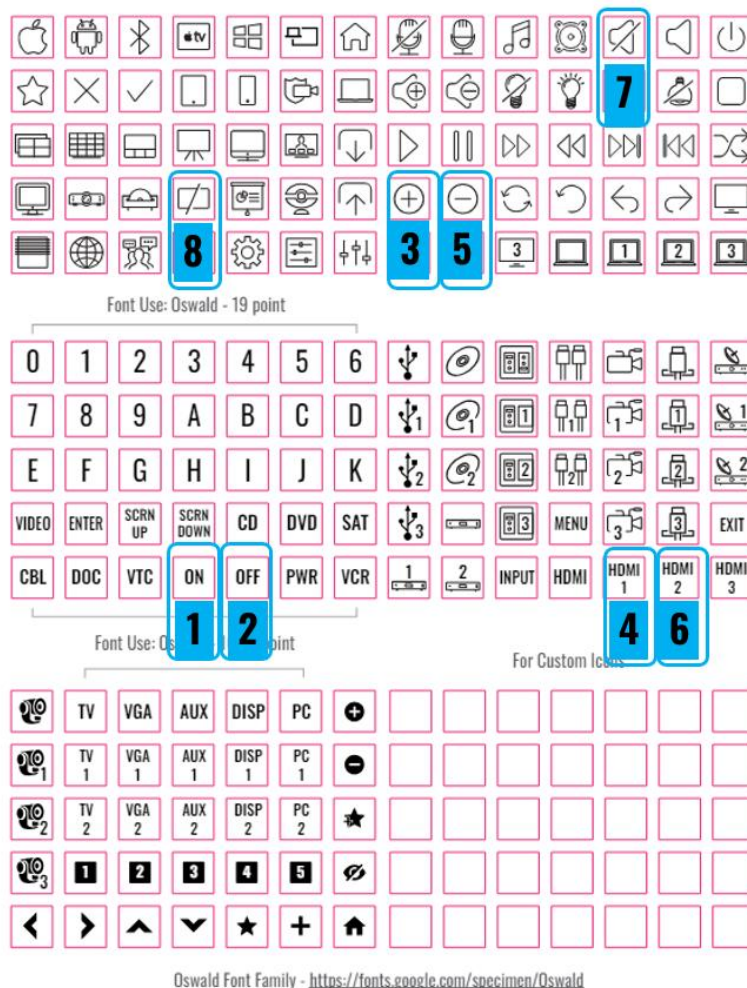
(Recommended) Once control is verified 100%, press the EXPORT PROJECT button to save a backup file of your program locally on your computer.

Button Caps:

Follow the instructions in the BUTTON CAPS sections of KD-WP8-3's Setup & Programming Guide.

Here is a suggested icon placement based on the programming files:

KD-WP8 Button Sticker Sheet



Verify Functionality and Finalize Installation

You are now finished and ready to use your KD-WP8-3 keypad + PJLink projector integration system.