



KEY DIGITAL
APP READY

Source & Display Control

4K AV over IP + Key Digital App

KD App Source & Display Control Feature

Key Digital Source & Display Control feature for 4K AV over IP systems controlled by the Key Digital iOS App, enables IR control of popular HDMI sources and IR or RS-232 Displays without any control system or programming.

System Requirements

Source & Display Control may be configured in any Key Digital 4K AV over IP units with firmware v1.56 or later.

Supported models are KD-IP822ENC, KD-IP822DEC, KD-IP922ENC, KD-IP922DEC, KD-IP1022ENC, and KD-IP1022DEC, KD-IP922ENC-II, KD-IP922DEC-II, KD-IP1022ENC-II, and KD-IP1022DEC-II.

Supported Devices

Sources	Sources (continued)	Displays	Displays (continued)
DirectTV H/HR	Cisco DTA	LG	Samsung Pro
Dish Network VIP	Arris VMS	Samsung	RokuTV (Hisense & more)
Comcast Xfinity	Videotron 10455HD	Sony	LG RS-232
Cisco HD Explorer		Vizio	Samsung RS-232
Arris DCX		Epson PowerLite 2181788	Sony RS-232
Motorola QIP		Panasonic	Epson PowerLite RS-232
SkyQ		Philips Pro	Philips Pro RS-232
AppleTV		Sharp	Sharp RS-232
Roku		Hitachi	Samsung Pro RS-232

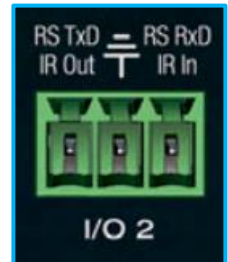
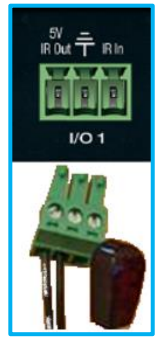
Setup

Use the latest [Key Digital Management Software Pro](#) to configure Source Control in Encoders or Display Control in Decoders. Use the dropdown menu to choose your supported device. Note that you must build a new switch file and re-load system after making these selections for the control panels to appear in the KD-App UI.

The image shows two screenshots of a software interface. The left screenshot shows a dropdown menu titled "Source and Type of control:" with "Disabled" selected. The list of options includes: IR DirectTV, IR Comcast Xfinity, IR Cisco HD Explorer, IR Arris DCX, IR Motorola QIP, IR Sky Q, IR AppleTV, IR Roku, IR Dish VIP, IR Cisco DTA, IR Arris VMS, and IR Videotron. The right screenshot shows a dropdown menu with "Disabled" selected, listing various display options: IR LG Television, IR Samsung Television, IR Sony Television, IR Vizio Television, IR Epson Projector, IR Panasonic Television, IR Sharp Television, IR Philips Pro, IR Samsung Pro, IR Hitachi Television, IR Hisense Roku TV, RS LG Television, RS Samsung Television, RS Sony Television, RS Epson Projector, RS Sharp Television, RS Philips Pro, RS Samsung Pro, and IP PJ Link.

Wiring

- IR Control: Use I/O port 1.
 - Connect the striped wire (IR signal) to pin 1.
 - Connect the solid wire (ground) to pin 2.
- RS-232 Control: Use I/O port 2.
 - On the decoder, Pin 1 (Tx/D) is transmit.
 - Pin 2 is ground.
 - Pin 3 (Rx/D) is receive. However, KD-App does not collect 2-way status from the connected RS-232 display, so this wire is not necessary.



Video Wall Control Wiring

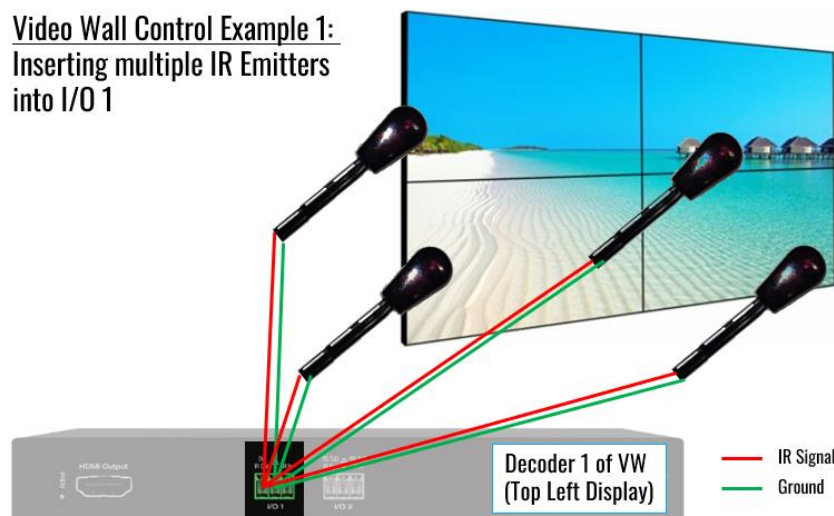
When controlling a video wall, KD App uses Decoder 1 as the control interface for the video wall.

Therefore, if using consumer panels, all IR emitters for the video wall displays MUST connect into Video Wall Decoder ID 1 (AKA top-left display).

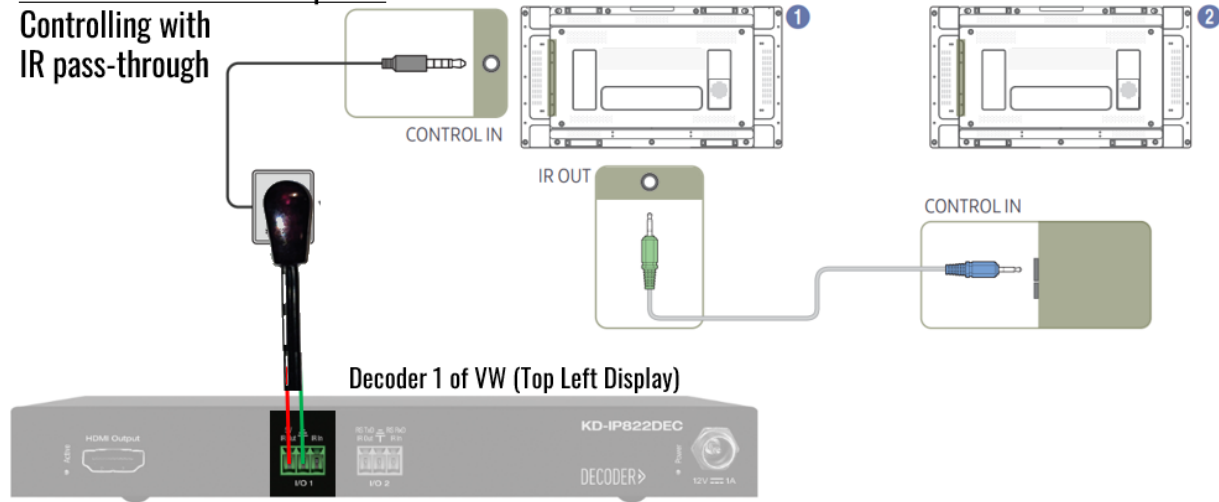
Or, utilize the IR or RS-232 control pass-through connections of your commercial panel.

For IR, note that Samsung (and potentially other manufacturers) require you to send IR into an included external IR sensor. To do so, mount the emitter from the Video Wall Decoder ID 1 (AKA top-left display) over the monitor's IR sensor, then utilize the IR pass-through ports to daisy-chain the control signal.

Video Wall Control Example 1: Inserting multiple IR Emitters into I/O 1



**Video Wall Control Example 2:
Controlling with
IR pass-through**



Control

Open the KD App, scan your network, and choose your system to enter the control UI.

Upon selecting Displays (decoders) and Sources (encoders) with Source & Display control enabled, press the desired buttons in the respective control panels at bottom-left and bottom-right of the screen.

You may toggle between the main directional control pad and numerical keypad in the Source Control panel by pressing the numerical button icon:

