KEY DIGITAL
APP READY

Source & Display Control

4K AV over IP + Key Digital App

Key digital®

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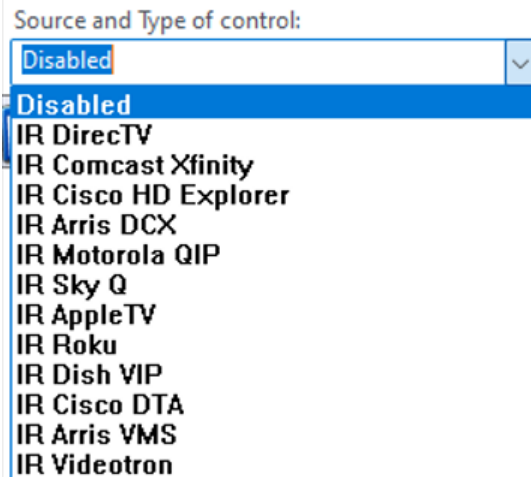
Supported models are KD-IP822ENC, KD-IP822DEC, KD-IP922ENC, KD-IP922DEC, KD-IP1022ENC, and KD-IP1022DEC, KD-IP922ENC-II, KD-IP922DEC-II, KD-IP1022ENC-II, and KD-IP1022DEC-II.

Supported Devices

| Sources	Sources (continued)	Displays	Displays (continued)
DirecTV 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
			CEC control over HDMI (KD-IP922/1022-II serial numbers F24138xxxxAA, with firmware v2.17 and later)

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.

Source and Type of control:

Disabled

Disabled
IR DirecTV
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
IR Videotron

Display and Type of control:

IR Samsung Television

Disabled
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
IP PJ Link
CEC control

For CEC display control, please ensure that CEC is enabled on your display(s)/projector(s). Depending on the manufacturer, HDMI-CEC may be given a different name. View THIS ARTICLE for a list of CEC names and how to enable CEC on popular displays.

Wiring

- IR Control: Use I/O port 1.
  - o Connect the striped wire (IR signal) to pin 1.
  - o Connect the solid wire (ground) to pin 2.

- RS-232 Control: Use I/O port 2.
  - o On the decoder, Pin 1 (TxD) is transmit.
  - o Pin 2 is ground.
  - o Pin 3 (RxD) is receive. However, KD-App does not collect 2-way status from the connected RS-232 display, so this wire is not necessary.
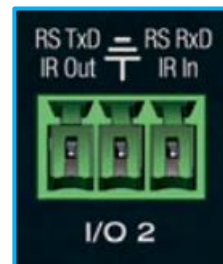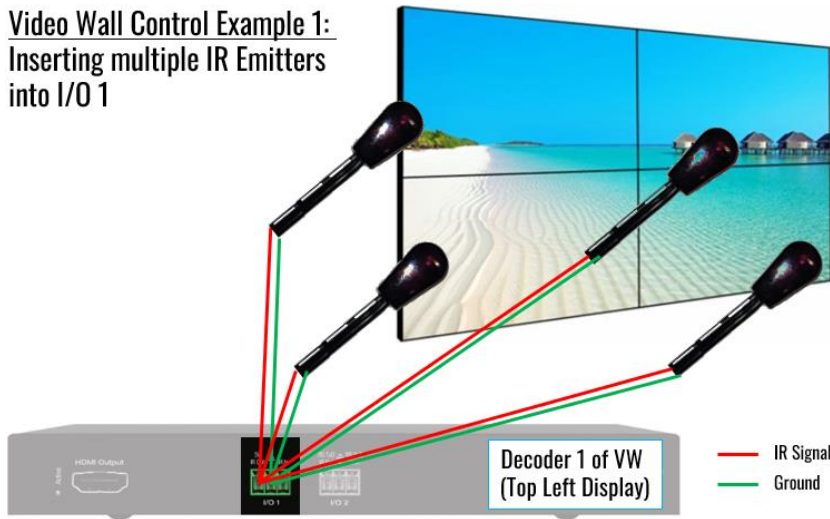
Video Wall Control Wiring

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.
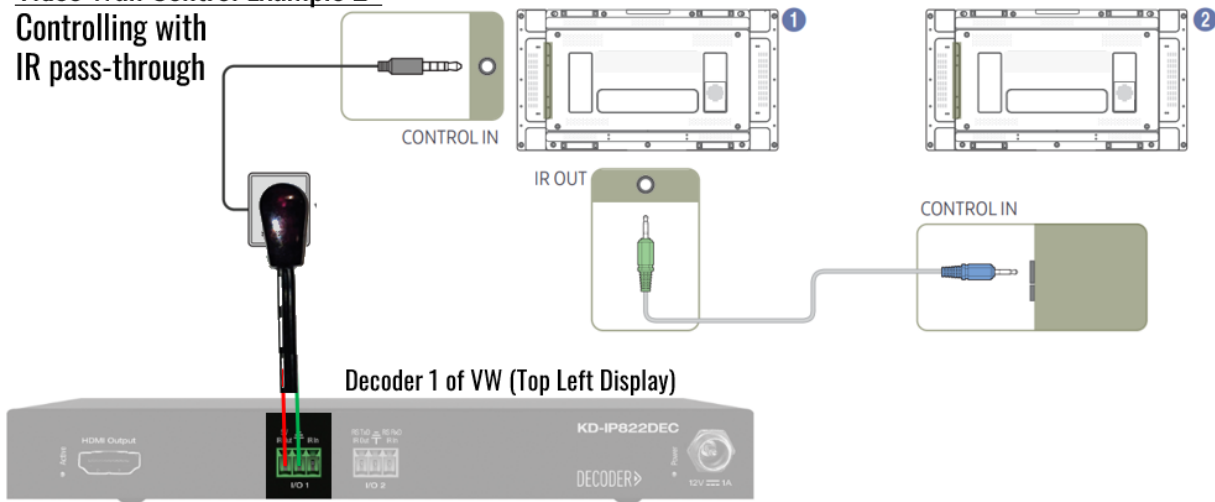
Control

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: