

4K AV Over IP Solutions

Key Digital's AV over IP Solutions create expandable AV over IP systems that can be scaled to fit any size installation or project.

Key Digital PRO
MANAGEMENT SOFTWARE

KEY DIGITAL
APP READY

KD-IP822ENC

4K UHD AV over IP Encoder, PoE, HDMI Pass-Thru, 2x IR/RS-232 ports

KEY FEATURES

- ▶ **AV over IP:** Utilizes a managed gigabit network switch to enable video distribution, matrix switching, and extension
- ▶ **Inter-System Compatibility:** Fully compatible with KD-IP922ENC and DEC systems
- ▶ **Video Wall Processing:** Encoder + Decoder systems create video walls with up to 16x16, 256 total maximum displays.
- ▶ **Control:** 2 multi-function ports may be used as third-party control interface, Compass Control® Pro master controller, control extension via IP, or callable via KeyCode open API
- ▶ **Key Digital® App Ready:** Network scan & detect populates pre-built GUI including image preview
- ▶ **HDCP 2.2:** Compliancy up to HDCP 2.2 and backward compliant
- ▶ **4K/Ultra HD Resolution:** Support for 4096x2160 or 3840x2160 24/25/30Hz at 4:4:4/8 Bit or 60Hz at 4:2:0/8 Bit
- ▶ **4K Down-scale:** Incoming 4K resolution can be down-converted to 1080p or 720p at each decoder, enabling monitors to display content at optimal resolution at all times
- ▶ **Signal Extension:** Up to 330 ft. / 100 m @ 4K 24/25/30(4:4:4)/60(4:2:0) into network switch or point-to-point
- ▶ **Power over Ethernet:** Does not require power supply when integrated with compatible PoE network switch
- ▶ **Redundant Power Connection:** Added reliability for non-PoE integration. Power supply sold separately
- ▶ **Data Stream Bandwidth:** < 900Mbps / Latency: <40ms at 4K
- ▶ **Installation:** Use KD-SMS16 to cleanly install up to twelve KD-IP822ENC/DEC units in rack
- ▶ **HDMI® and HDCP Licensing:** Fully licensed and compatible with HDCP 2.2 and HDMI latest technology such as 4K/UHD 4:2:0/8bit at 60 f/s
- ▶ **EDID Control:** Internal library features 15 default EDID configurations and native EDID data from Output/Display devices connected to Decoder



- ▶ **Hot Plug Detection Control:** Enables integrator to choose if active signal voltage is forced to connected input devices
- ▶ **Full Buffer System™:** Manages TMDS re-clocking / signal re-generation, HDCP authentication with source & display, EDID Control handshake, and Hot Plug control
- ▶ **IR Sensor:** Sensor powering via +5V IR In port collects line-of-sight IR from remote(s) without external IR connecting block
- ▶ **Up/Down IR:** Two channels of IR enable control to/from devices connected to Encoder and Decoder units
- ▶ **RS-232:** Bi-Directional control to/from Encoder and Decoder unit on Phoenix connector
- ▶ **RS-232/TCP-IP Control Mode:** Provides control of unit as well as connectivity status
- ▶ **Lossless compressed digital audio:** Support for Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD Master Audio™
- ▶ **Control System Support:** Fully controllable by all IR, RS-232, and TCP/IP supported control systems via open API. Key Digital® iOS App / Key Digital Management Software™ Pro (KDMS™ Pro) / Compass Control® Pro ready.
- ▶ **Compass Control® Pro Inside:** Built-in 3 port Compass Control® Pro master controller.
 - » KD-ProCL1/2/4/8 Software License required to activate iOS controllers.

SPECIFICATIONS

- » Regulation: CE, RoHS, WEEE, EAC
- » Enclosure: Black Metal
- » Product (Each): 7.5" x 5.59" x 0.85", Weight: 0.7 lbs

Digital Video Matrix Digital Video Distribution System Digital Video Switcher **Video Wall Controller** Digital Video Extender Master Controller

