

Key Digital Updates KD-PRO2x1X, KD-PRO4x1X Switchers

Written by Frederick Douglas
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Key Digital improves on the KD-PRO2x1X (2-input) and KD-PRO4x1X (4-input) 4K/18G HDMI switchers with the addition of analog and digital audio de-embedding, auto switching and app-based control.



Designed for conference rooms, huddle spaces, classrooms, theatres and gaming spaces, the KD-Pro2x1X and KD-Pro4x1X allow installers to connect multiple video sources to a single display while analog (3.5mm and balanced/unbalanced) and digital (optical and PCM) audio de-embed ports feed audio from the selected source into an amplifier, DSP or soundbar. The latest product release features TOSlink optical audio output, a recently important feature due to simplified soundbars with only a TOSlink audio input.

Alternately, integrating the KD-Pro2x1X and KD-Pro4x1X with the Key Digital KD-Amp220 enables an app-ready all-in-one user-friendly solution for video switching control with sound and speech enforcement. A front USB allows setup via Key Digital Management Software Pro, a means for installers to apply network settings and names for the system, inputs and outputs.

Auto-Sensing provides automatic selection of newly detected sources, and switching from newly disconnected sources via Hot Plug Detection voltage when enabled. The switchers support all SD, HD, VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) and Ultra HD/4K video standards up to 4096×2160 or 3840×2160 24/25/30/60hz at 4:4:4 (signals up to 18Gbps bandwidth) with HDR header information included in a variety of 4K EDID handshakes. In addition to IR, RS-232, and TCP/IP control, KD-Pro2x1X and KD-Pro4x1X can also be controlled via trigger voltage and feature status-monitoring LEDs.

The switchers are HDCP 2.2-compatible and are HDR10 and Dolby Vision capable. Deep Color is supported with ranges up to UHD/4K 30Hz 4:4:4/12-bit or 60Hz 4:4:4/8-bit. Lossless compressed digital audio support includes Dolby TrueHD, Dolby Digital Plus, DTS-HD Master

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Audio and Dolby Atmos. Advanced EDID controls are included through an internal library of 15 EDID handshakes, including 4K with HDR in addition to native EDID data copied from the output/display. The proprietary Full Buffer System manages TMDS re-clocking / signal re-generation, HDCP authentication to source and display, and EDID control handshake.

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