



## ASPEN-1616UX

16X16 12G SDI Matrix Switcher

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ASPEN-1616UX is a 16x16 matrix switcher for SDI signals of up to 12G. It equalizes the input signal and reclocks the output signal to gain extended-reach signal extension. ASPEN-1616UX is easy to operate and control through the network using the intuitive web pages and through RS-232 using a serial controller

### FEATURES

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**High-Performance Matrix Switcher** - Switches 16 12G SDI inputs to 16 12G SDI outputs with a maximum resolution of 4K@60Hz (4:2:2). Features Kramer Equalization & reKlocking™ Technology that rebuilds the digital signal to travel longer distances

**HDTV Compatible**

**SDI Multi Rate Signals** - Auto-adapts from 270Mbps to 12Gbps data rates, accepts SDI, HD-SDI, 3G HD-SDI, 6G and 12G SDI compliant input signals with video resolution of up to 4K@60Hz (4:2:2) 30bpp. Complying with SMPTE 259M (SD-SDI), 292M (HD-SDI), 344M (ED-SDI), 424M (3G HD-SDI), ST-2081 (6G-SDI) and ST-2082 (12G-SDI) standards, it supports pass-through of standard embedded audio channels with ancillary ID and metadata information

**Extended-Reach Input Extension** - Input signal equalization and output signals reclocking to gain extended-reach signal extension. Using high-quality coaxial SDI cables, supports extension of up to 300m (984ft) for SD signals; 200m (656ft) for 1.5G HD signals; 100m (328ft) for 3G and 6G HD signals; 80m (260ft) for 12G 4K signals. Note: Reach depends on signal resolution, and quality of copper cable used. Reach extension performance may vary while using coaxial cables that are not high-quality

**Genlock Clean Switching and Versatility** - Clean switching when the sources are genlocked to the selected genlock input with a difference of no more than two lines of video. Versatile Genlocking using an analog signal

**Convenient and Comprehensive Control** - Control the unit using intuitive embedded web pages via the Ethernet or Protocol 3000 API commands via RS-232 serial communication transmitted by a PC, touch screen system or other serial controller. Stores 8 multiple switches as presets to be recalled and executed when needed. Upgrade firmware via the embedded webpages

**Compact and Easy to Install** - 19" wide and only 4" deep enclosure for rack mounting a unit in a 1U rack space with included rack ears



# kramer

## TECHNICAL SPECIFICATIONS

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Inputs	16 12G SDI/HD-SDI/SDI Video: 75Ω on BNC connectors 1 Genlock: Looping on a BNC connector
Outputs	16 12G SDI/HD-SDI/SDI Video: 75Ω on BNC connectors 1 Genlock Loop: Passive loop output on a BNC connector
Video	Standards: 12G-SDI – SMPTE ST-2082-1, 3G HD-SDI – SMPTE 424M, HD-SDI – SMPTE 292M, SDI-SMPTE 259M/344M Max Resolution: 4K@60Hz (4:2:2) Max Bandwidth: 12Gbps
Extension Line	SD Signals: Up to 300m 1.5G HD Signals: Up to 200m 3G Signals: Up to 100m 6G Signals: Up to 100m 12G Signals: Up to 80m Coupling: DC
User Interface	Controls: Remote RS-232, Ethernet, web pages
Power	Consumption: 12V DC, 1.35A Source: 12V DC, 5A
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F) Storage Temperature: -40° to +70°C (-40° to 158°F) Humidity: 10% to 90%, RHL non-condensing
STANDARDS COMPLIANCE	Safety: CE Environmental: RoHs, WEEE
Enclosure	Size: 19", 1U Type: Aluminum Cooling: Fan Ventilation
Accessories	Included: Power adapter Cables (Recommended): Belden 4794R and 4855R 12G SDI coax cables
Product Dimensions	43.64cm x 10.00cm x 4.36cm (17.18" x 3.94" x 1.72" ) W, D, H
Product Weight	1.0kg (2.1lbs) approx
Shipping Dimensions	55.00cm x 27.60cm x 10.70cm (21.65" x 10.87" x 4.21" ) W, D, H
Shipping Weight	1.9kg (4.1lbs) approx

