

# Aspen 1616HD-3G video router

Reliable router.... no magic needed.



Aspen provides the highest quality design at the most competitive price.

Sierra Video has always designed and built to the highest standards and once again introduces a router with unparalleled performance and value. The Aspen family offers light weight, small footprint routers with multi-rate formats up to 3Gb/s. This perfect match of size and functionality is coupled with Aspen's innovative design for signal integrity providing cable runs of over 155 meters at 3Gb/s, over 200 meters at 1.5Gb/s and operates at extremely low power.

The Aspen's embedded controller can be run via Ethernet or RS232/422 serial interface making it easy to integrate into any automation or control system. Its built-in web server offers control and setup functions and works in any OS and browser.

Without question, the affordable Aspen 1616HD-3G is the perfect mainstay router for any HD-SDI video application and is particularly ruggedized for mobile environments and rental installations.

#### FEATURES:

- 1RU and only 2.5 inch deep
- Multi-rate capable from 19 Mb/s to 2.97 Gb/s
- Re-clocking at 270Mb/s, 1.485 Gb/s, 2.97 Gb/s
- Very high signal integrity supporting cable runs of 155m at 2.97Gb/s
- Front control panel standard with multi-color buttons
- Front panel lockout
- Built-in GUI for configuration and operation via Ethernet, including Names, Salvos, Layers, Output Reclockers, Input Equalizers and more
- Optional redundant power
- Optional Aspen RCP-1616 remote control panel (Ethernet)
- External audio router control support (layers)
- Low power consumption

## TECHNICAL SPECIFICATIONS

VIDEO	
DATA RATES	19Mb/s to 2.97Gb/s
DATA TYPES	SMPTE 424M, SMPTE 292, SMPTE 259M-C, DVB-ASI
INPUT	
INPUT CABLE EQ RANGE: (BELDEN 1694A)	2.97Gb/s $\geq$ 155m, 1.485Gb/s $\geq$ 200m, 270 Mb/s $\geq$ 400m
INPUT RETURN LOSS	$\geq$ 15db@ 1.485Gb/s, $\geq$ 10db@ 2.97Gb/s
OUTPUT	
OUTPUT LEVEL	800 mVp-p +/- 10%
OUTPUT TIMING JITTER	SMPTE 424M $\leq$ 2.0UI, 292 $\leq$ 1.0UI, 259M-C $\leq$ 0.2UI
OUTPUT ALIGNMENT JITTER	SMPTE 424M $\leq$ 0.3UI, 292 $\leq$ 0.2UI, 259M-C $\leq$ 0.2UI
OUTPUT RETURN LOSS	$\geq$ 15db @ 1.485Gb/s, $\geq$ 10db @ 2.97Gb/s
MECHANICAL	
I/O CONNECTORS	75 Ohm BNC
OPERATING TEMPERATURE	OC - 40C (32F - 104F)
DIMENSIONS	3.5 (89mm) x 19.0 (483mm) x 2.5 (64mm)
WEIGHT	4.0 lbs (1.8 kg)
ELECTRICAL	
AC INPUT RANGE	50 - 60 Hz, 100 - 240 V 18W
COMMUNICATION	
ETHERNET (1)	10/100 Base-T (RJ45)
SERIAL PORT (1)	RS232/422 (DB-9)

Aspen 1616HD-3G Router Rear View



Aspen RCP-1616 Remote Control Panel



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