Blackmagicdesign

Smart Videohub CleanSwitch 12x12

Compact 6G-SDI router with built in re-synchronizers on all inputs allows clean switching between all video sources of the same video standard, and can be used as 12 re-synchronizers for automatic re-timing of SDI feeds. Smart Videohub CleanSwitch supports 12 inputs and 12 outputs in virtually all SD, HD and Ultra HD video formats. Supports multiple formats on the same router at the same time and will clean switch between multiple formats that match the reference frame rate when the switching is between the same video standard. Includes front panel button and spin knob routing, elegant machined metal front panel with LCD for routing display and video monitoring and remote Ethernet control.
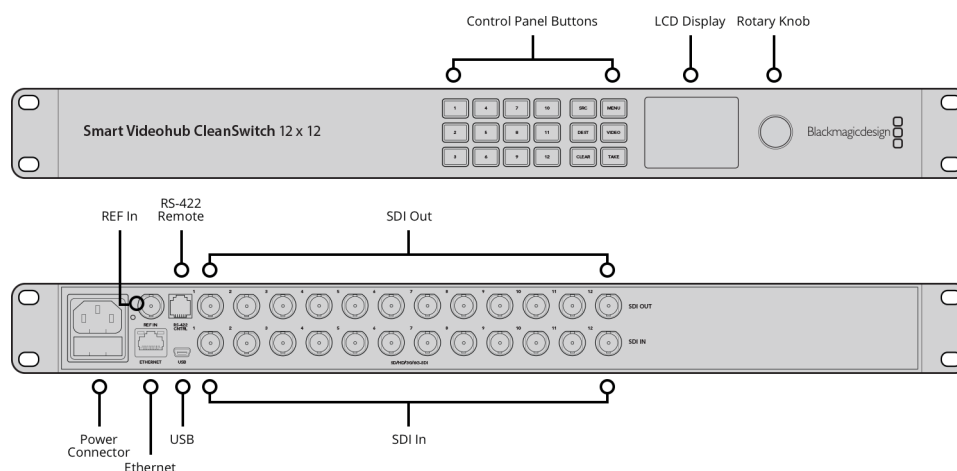
$1,495

Connections

SDI Video Input
12

SDI Video Output
12

SDI Rates
270Mb, 1.5G, 3G, 6G.

Video Input Re-Sync
On all 12 inputs for clean switch.

SDI Relocking
On all SDI outputs.

Reference Input
Tri-Sync or Black Burst.

Control Panel Connection
Ethernet.

Serial Control Connection
RJ-6 RS RS-422.

Multi Rate Support
Auto detection of SD, HD or 6G-SDI. Simultaneous routing of 4K, HD and SD video.

Updates
USB.

Front Panel Router Control
12 buttons for local control of Videohub. 6 buttons and scroll wheel for control of LCD display or RJ45 Ethernet.

Router Configuration
Via front panel LCD or RJ45 Ethernet.

RS-422 Router Control
1 x input for controlling router crosspoint switching.

Standards

SD Format Support
525i59.94 NTSC, 625i50 PAL.

HD Format Support
720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p50,
1080p59.94, 1080p60
1080PsF23.98, 1080PsF24, 1080PsF25,
1080PsF9.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

2K Format Support
2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p
2K DCI23.98PsF, 2K DCI 24PsF,
2K DCI 25PsF

Ultra HD Format Support
2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30

4K Format Support
4K DCI 23.98p, 4K DCI 24p, 4K DCI
25p, 4K DCI 29.97p, 4K DCI 30p

SDI Compliance
SMPTE 259M, SMPTE 292M,
SMPTE 296M, SMPTE 310M,
SMPTE 425M Level B, ITU-R BT.656
and ITU-R BT.601.

SDI Video rates
SDI video inputs are switchable
between standard definition, high
definition and 4K. SDI switches
between 270 Mb/s standard definition
SDI, 1.5 Gb/s HD-SDI, 3G-SDI and 6G-
SDI.

SDI Video Sampling
4:2:2 and 4:4:4

SDI Audio Sampling
Television standard sample rate of
48kHz and 24 bit.

SDI Color Precision
4:2:2 and 4:4:4 10 bit.

SDI Color Space
YUV or RGB.

SDI Auto Switching
Automatically selects between SD-SDI,
HD-SDI, and 6G-SDI on each input.

SDI Metadata Support
Video payload identification ancillary
data as per SMPTE 352M.

Control

Built-in Control Panel
12 buttons for local control of Videohub
with 6 buttons and scroll wheel for menu
control. 2.2 inch color display.

External Control Panel
Includes Blackmagic Videohub
software control panel for Mac OS X
and Windows. Supports Blackmagic
Smart Control and Blackmagic Master
Control hardware panels. Includes
Blackmagic Videohub SDK and
Ehternet Videohub Control Protocol.

Software

Software Control
Router control included free for
Windows™ and Mac OS X™.

Internal Software Upgrade
Via included updater application.

Operating Systems

Mac OS X 10.10 Yosemite,
Mac OS X 10.11 El Capitan
or later.

Windows 8.1 or
Windows 10.

Display

Built-in LCD for video and menu settings.

Power Requirements

Power Fail Protection
Router connections preserved and
restored instantly at power on.

Power Supply
IEC power cable required. 90 - 240V
AC input.

Physical Specifications

19 in

1.75 in

6.30 in

4.14 lb

Physical Installation

1 rack unit size. Less than 6 inches deep.

Environmental Specifications

Operating Temperature
0° to 40° C (32° to 104° F)

Storage Temperature
-20° to 45° C (-4° to 113° F)

Relative Humidity
0% to 90% non-condensing

What's Included

Smart Videohub CleanSwitch 12x12
SD card with software and manual

Warranty

12 Month Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller