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.

$1,859

Connections

SDI Video Inputs
12 x 10-bit SD-SDI, HD-SDI and 6G-SDI.

SDI Video Outputs
12 x 10-bit SD-SDI, HD-SDI and 6G-SDI.

SDI Rates
3

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

SDI Reclocking
On all SDI outputs.

Reference Input
Tri-Sync or Black Burst.

Control Panel Connection
Ethernet.

Serial Control Connection
RJ-6 RS-422.

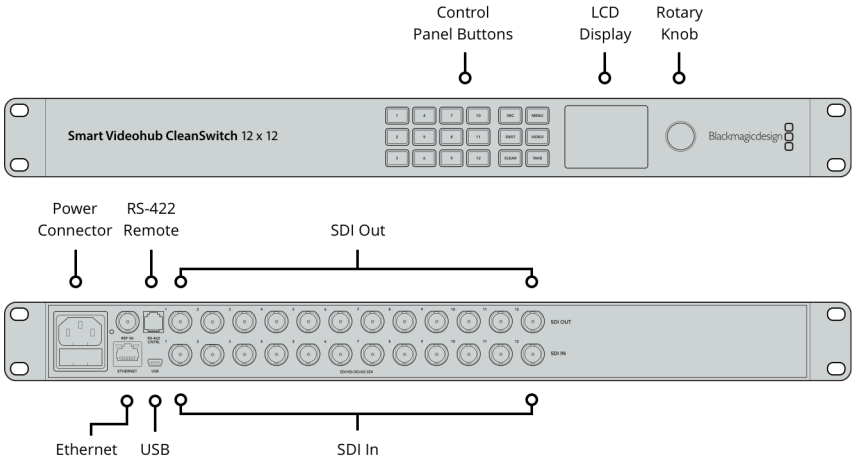
Multi Rate Support
Auto detection of SD, HD or 6G-SDI. Simultaneous routing of 4K, HD and SD video.

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 Video Standards
525i59.94 NTSC, 625i50 PAL.

HD Video Standards
720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60
1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

2K Video Standards
2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p
2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI 25PsF

Ultra HD Video Standards
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30

4K Video Standards
4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p

SDI Compliance
SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M Level A and B , ITU-R BT.656 and ITU-R BT.601.

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
10-bit 4:2:2 and 4:4:4

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 and Windows. Supports Blackmagic Smart Control and Blackmagic Master Control hardware panels. Includes Blackmagic Videohub SDK and Ethernet Videohub Control Protocol.

Software

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

Internal Software Upgrade
Via included updater application.

Operating Systems

Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.

Windows 10, 64-bit.
Windows 11.

Display

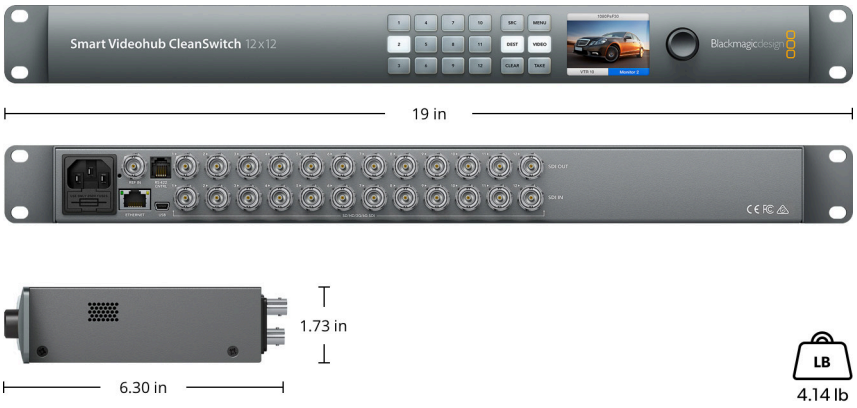
Built in LCD for video and menu settings.

Power Requirements

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

Power Supply
IEC power cable required. 100 - 240V AC input.

Physical Specifications



Physical Installation

1 rack unit size. Less than 6 inches deep.

Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
0° to 40° C (32° to 104° F)	-20° to 45° C (-4° to 113° F)	0% to 90% non-condensing

What's Included

Smart Videohub CleanSwitch 12x12
Welcome wallet with QR code for software download

Warranty

3 Year Limited Manufacturer's Warranty.

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