

## 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.

### 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

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

#### 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

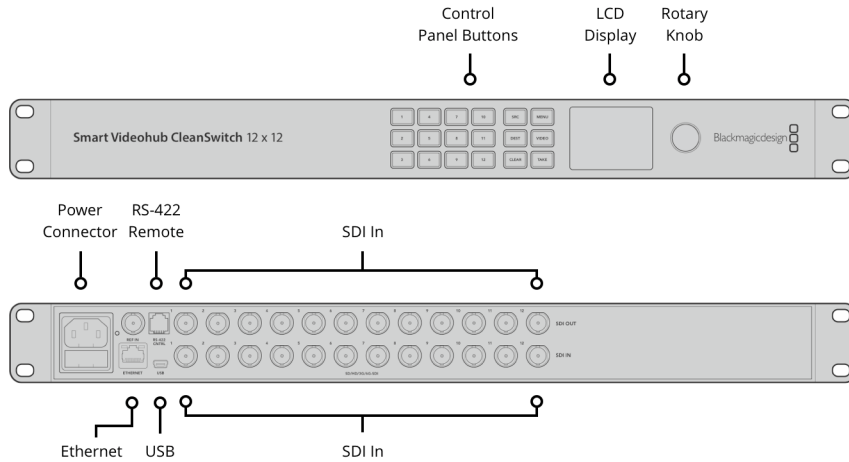
12 buttons for local control of Videohub. 6 buttons and scroll wheel for control of LCD display or RJ45 Ethernet.

#### 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.

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## Software

### Software Control

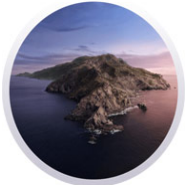
Router control included free for Windows™ and Mac™.

### Internal Software Upgrade

Via included updater application.

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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10.

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## Display

Built in LCD for video and menu settings.

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## Power Requirements

### Power Fail Protection

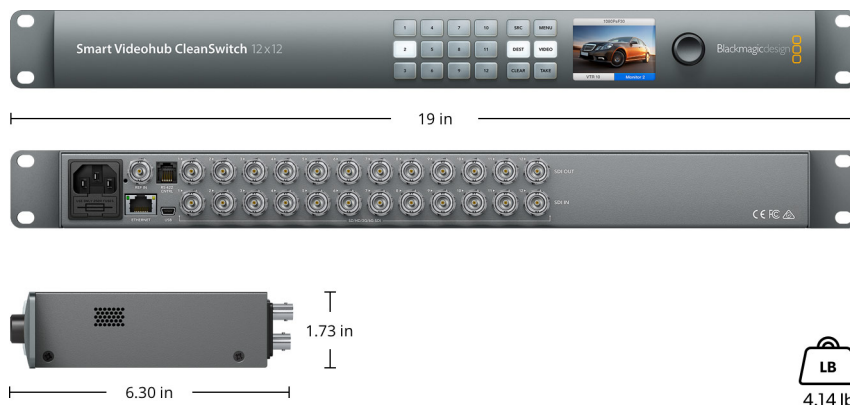
Router connections preserved and restored instantly at power on.

### Power Supply

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

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## Physical Specifications



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## Physical Installation

1 rack unit size. Less than 6 inches deep.

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## Environmental Specifications

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

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## What's Included

Smart Videohub CleanSwitch 12x12  
SD card with software and manual

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## Warranty

3 Year Limited Manufacturer's Warranty, and 12 Month Warranty on the front panel.

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