Smart Videohub 12G 40x40

Advanced 12G-SDI video router supports any SD, HD or Ultra HD SDI format on the same router at the same time. Smart Videohub 12G 40x40 features 40 inputs and 40 outputs and includes video reference, redundant power connections and an elegant machined metal front panel with large full HD LCD for monitoring and routing label display. Routing can be performed by direct button selection and the spin knob controller. 12G-SDI technology supports all SDI video standards up to 2160p60.

Connections

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

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

SDI Rates
DVB-ASI, 270Mb, 1.5G, 3G, 6G, 12G.

Video Input Re-Sync
None.

SDI Reclocking
On all SDI outputs.

Reference Inputs
Tri-Sync or Black Burst.

Reference Outputs
Reference terminating loop output.

Control Panel Connection
Ethernet.

Serial Control Connection
DB-9 RS-422.

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

Updates
USB

Front Panel Router Control
40 buttons for local control of Videohub. 6 buttons and scroll wheel for control of LCD display or RJ45 Ethernet. RS-422.

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, 1080p47.95,
1080p48, 1080p50, 1080p59.94,
1080p60
1080PsF23.98, 1080PsF24,
1080PsF25, 1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

2K Video Standards
2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95
DCI, 2Kp48 DCI, 2Kp50 DCI, 2Kp59.94
DCI, 2Kp60 DCI
2KPsF23.98 DCI, 2KPsF24 DCI,
2KPsF25 DCI, 2KPsF29.97 DCI,
2KPsF30 DCI

Ultra HD Video Standards
2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30, 2160p47.95,
2160p48, 2160p50, 2160p59.94,
2160p60

4K Video Standards
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95
DCI, 4Kp48 DCI, 4Kp50 DCI, 4Kp59.94
DCI, 4Kp60 DCI

SDI Compliance
SMPTE 259M, SMPTE 292M, SMPTE
296M, SMPTE 372M, SMPTE 424M,
SMPTE 425M Level A and B
SMPTE 2081-1, SMPTE 2081-10,
SMPTE 2082-10, 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, 12G-SDI and DVB-ASI on
each input so that each input can be
running a different television
standard.

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

Control

Built in Control Panel
40 buttons for local control of
Videohub with 6 buttons and scroll
wheel for menu control. 5 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 10.14 Mojave, Mac 10.15 Catalina or later.

Windows 8.1 or Windows 10.

Display

Displays
Built in 5 inch LCD for video and menu settings.

Power Requirements

Power Supply
2 x Internal 90 - 240V AC. IEC power cables required.

Power Fail Protection
Crosspoint connections preserved and restored instantly at power on.
Physical Specifications

![Smart Videohub 12G 40x40](image)

**Physical Installation**

2 rack unit size. Less than 6 inches deep.

**Environmental Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature:</strong></td>
<td>0° to 40° C (32° to 104° F)</td>
</tr>
<tr>
<td><strong>Storage Temperature:</strong></td>
<td>-20° to 45° C (-4° to 113° F)</td>
</tr>
<tr>
<td><strong>Relative Humidity:</strong></td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
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**What's Included**

- Smart Videohub 12G 40x40
- SD card with software and manual

**Warranty**

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