

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

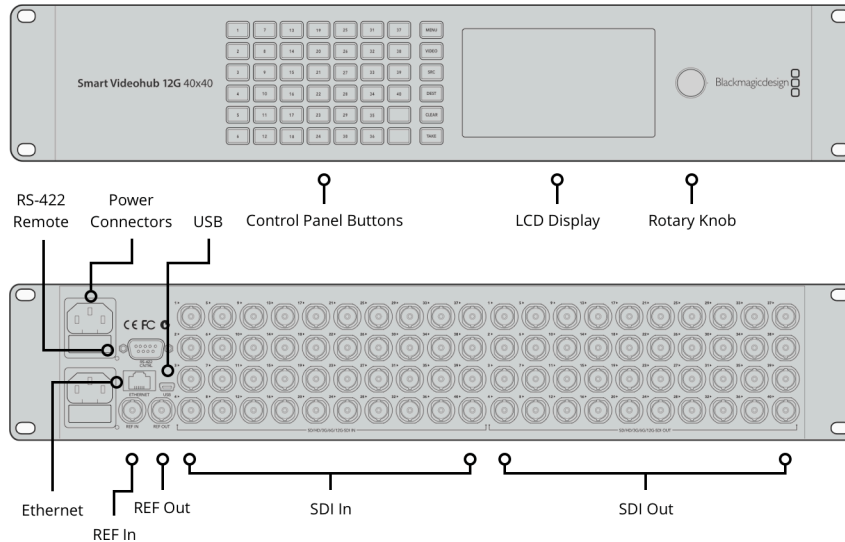
40 buttons for local control of Videohub. 6 buttons and scroll wheel for control of LCD display or RJ45 Ethernet. RS-422.

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

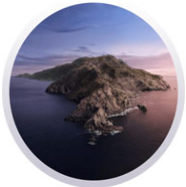
Software Control

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 and 10.

Display

Displays

Built in 5 inch LCD for video and menu settings.

Power Requirements

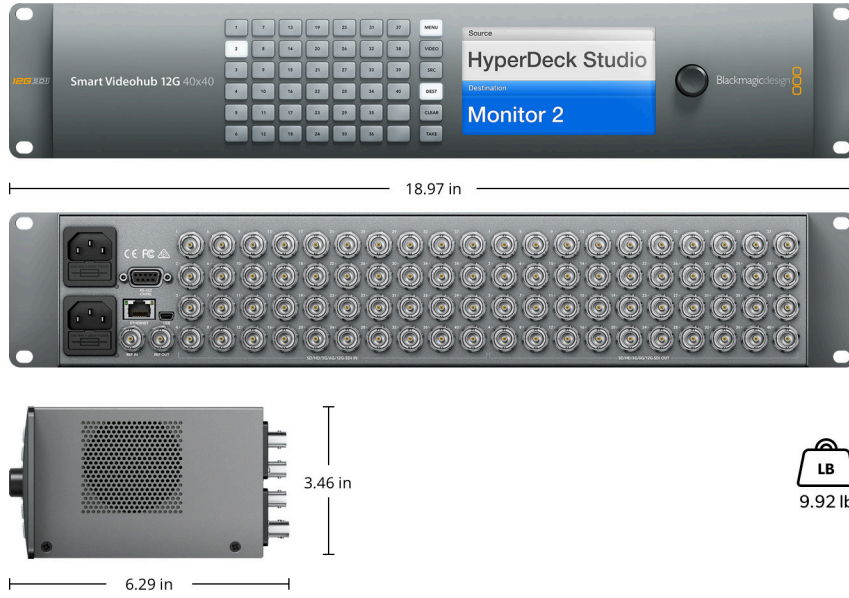
Power Supply

2 x Internal 100 - 240V AC. IEC power cables required.

Power Fail Protection

Crosspoint connections preserved and restored instantly at power on.

Physical Specifications



Physical Installation

2 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