Blackmagicdesign

Smart Videohub 40x40

Advanced 40 x 40 multi format SD, HD and Ultra HD SDI router with built in video monitoring and spin knob control for visual routing so that you can quickly route your video by looking at it! Smart Videohub 40x40 fits a massive 80 multi rate 6G-SDI connections in a compact two rack unit size!

$2,995

Connections

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

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

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

Video Input Re-Sync
None

SDI Reclocking
On all SDI outputs, auto switching between standard definition, high definition or 6G-SDI video.

Reference Input
Tri-Sync or Black Burst.

Reference Output
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.
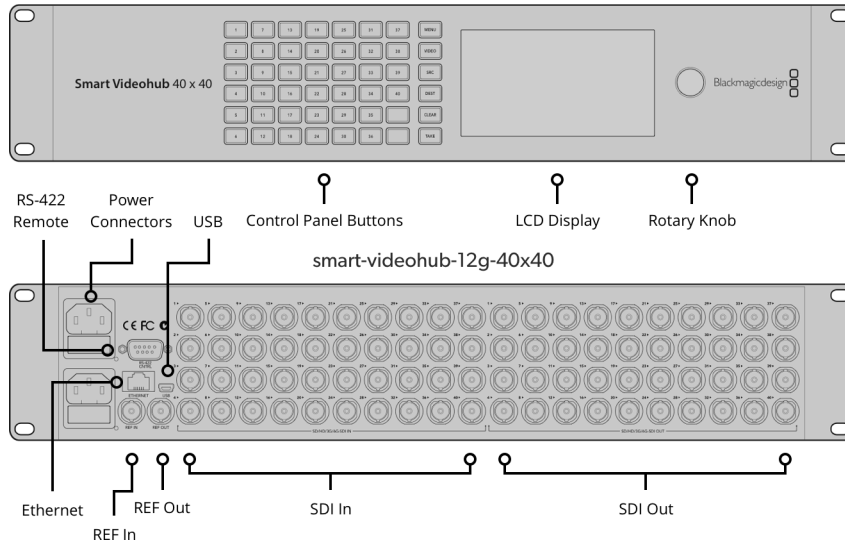
Updates
USB.

Router Control
40 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. USB for firmware updates and IP address setting only.

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

RS-422 Remote · Power Connectors · USB · Control Panel Buttons · LCD Display · Rotary Knob

smart-videohub-12g-40x40

Ethernet · REF In · REF Out · SDI In · SDI Out

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, 4K DCI 29.97p, 4K DCI 30p

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
2082-1, 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, 6G-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. 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
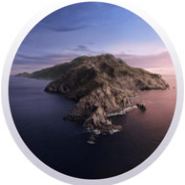Ethernet Videohub Control Protocol.

Software

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

Internal Software Upgrade
Via included updater application.

Operating Systems

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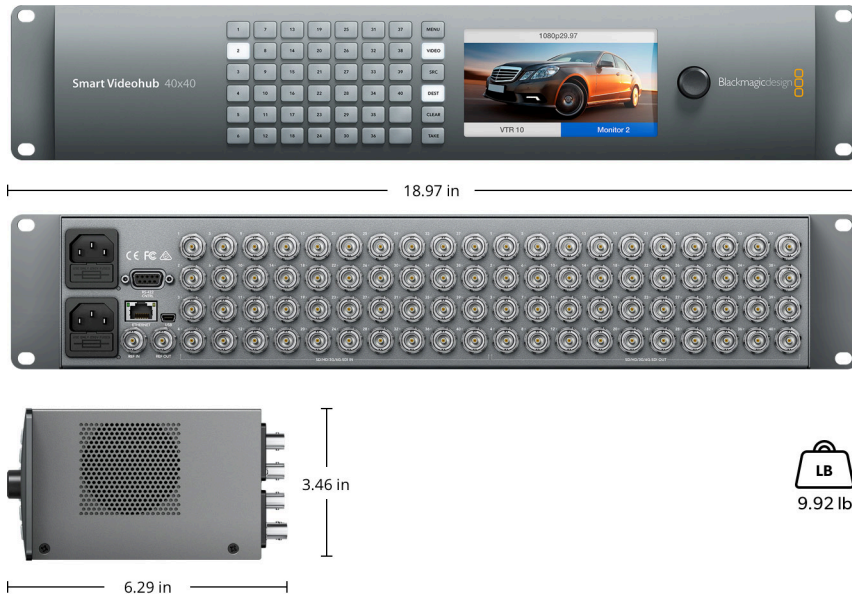2 x Internal 90 - 240V AC. IEC power cables required.

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

Power Consumption
58 Watts

Physical Specifications

18.97 in

3.46 in

6.29 in

LB 9.92 lb

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

What's Included

Smart Videohub 40x40
SD card with software and manual

Warranty

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

Blackmagic Design Authorized Reseller