Smart Videohub 40x40

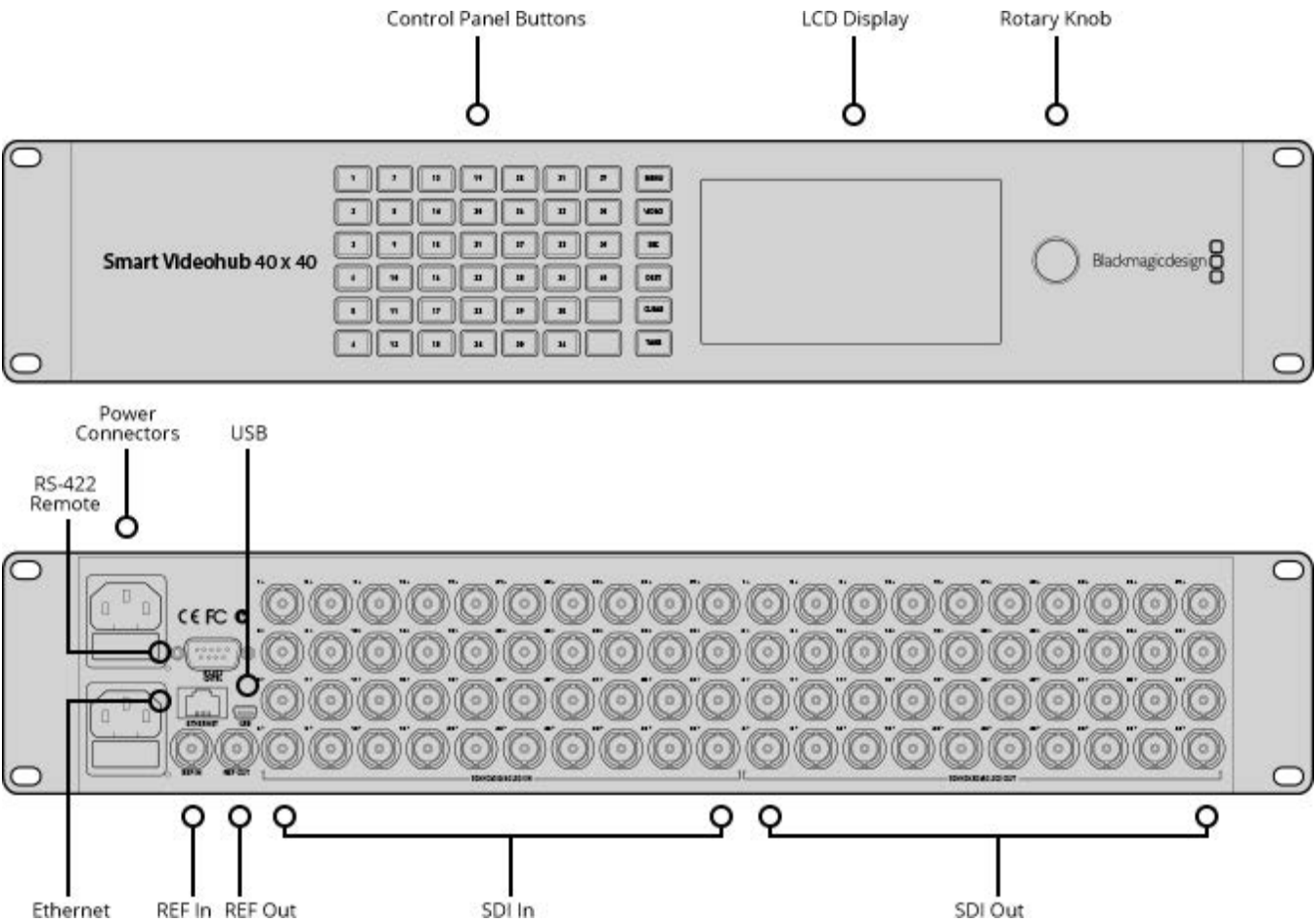# Smart Videohub 40x40
Technical Specifications

Description
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!

Connections

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

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

Reference Input
Black burst and Tri-level sync for SD, HD and 4K.

Reference Output
Reference terminating loop output.

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

Updates
USB or Ethernet.

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.

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

Standards

SD Format Support
625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC.

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

2K Format Support
2048 x 1080p23.98, 2048 x 1080p24, 2048 x 1080p25, 2048 x 1080PsF23.98, 2048 x 1080PsF24, 2048 x 1080PsF25.

4K Format Support
3840 x 2160p23.98, 3840 x 2160p24, 3840 x 2160p25, 3840 x 2160p29.97, 3840 x 2160p30, 4096 x 2160p23.98, 4096 x 2160p24, 4096 x 2160p25, 4096 x 2160p29.97, 4096 x 2160p30

SDI Compliance
SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 310M, SMPTE 425M-B, ITU-R BT.656 and ITU-R BT.601.

SDI Video rates
SDI video inputs are switchable between standard definition, high definition and 4K. SDI switches between 270 Mb/s standard definition SDI, 1.5 Gb/s HD-SDI, 3G-SDI and 6G-SDI.

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.

Software

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

Internal Software Upgrade
Via included updater application.

Operating Systems

Mac OS X 10.9 Mavericks, Mac OS X 10.10 Yosemite or later.

Windows 7 or Windows 8.

Display

Displays
Built-in 5" LCD for video and menu settings.

Physical Installation

Physical Installation
2 rack unit size. Less than 6 inches deep.

Power Requirements

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

Power Supply
IEC power cables required. 2 x 90 - 240V AC inputs for full redundancy.

Power Consumption
58 Watts

Physical Specifications

3.46 in

18.97 in

6.29 in

9.92 lb

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
Software CD

Warranty
12 month Limited Manufacturer's Warranty.