

EU Declaration of Conformity (DoC)

We

Company name: Blackmagic Design Pty Ltd
Postal address: 11 Gateway Court
Postcode and City: 3207 Port Melbourne
Telephone number: +61 3 9682 4770
E-mail address: compliance@blackmagicdesign.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus Model/Product: ATEM 2 M/E Advanced Panel
Type: Video Switcher
Batch: N/A
Serial number: Serial number greater than 56040

Object of the declaration (identification of apparatus allowing traceability; it may include a colour image of sufficient clarity where necessary for the identification of the apparatus):



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
RoHS Directive 2011/65/EU + (EU) 2015/863

The following harmonised standards and technical specifications have been applied:

Title, Date of standard/specification:

EN 55035	2017 + A11:2020
EN 55032	2015 + A11:2020
EN 63000	2018
EN 62368-1	2014 + AC:2015

Notified body (where applicable):
N.A.

4 digit notified body number:
N.A.

Additional information:

This product is supplied without a power cord

Signed for and on behalf of:

Blackmagic Design Pty Ltd
Place of issue

1/12/2021
Date of issue

A handwritten signature in black ink, appearing to read 'S Brennan'.

Steve Brennan, Compliance Manager
Name, function, signature

ATEM 2 M/E Advanced
Panel 20



The 2 M/E model features 2 M/E rows with 20 input buttons and 2 independent system control LCDs for each row. Plus each row can control up to 4 M/Es in larger switchers. Both rows and all input buttons include LCDs for custom labeling. Each row also includes an independent select bus!

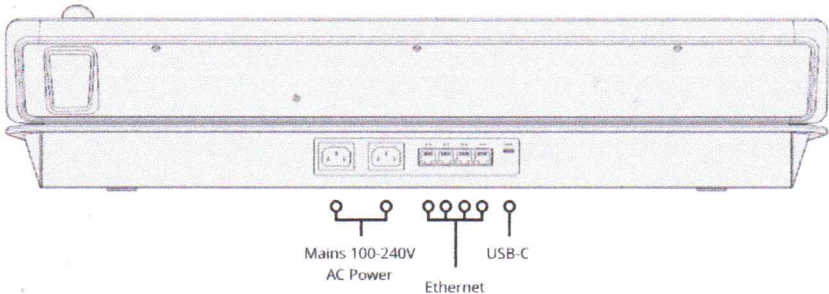
Connections

Ethernet

4 x 10/100/1000 BASE-T with loop output for additional control panels or computers.

Software Updates

1 x USB-C for firmware updates.



Product Specifics

Number of Mix Effects Rows	Crosspoint Label	Preview Transition
2	6 rows 24 character LCD	2
Direct Cross Points	On-Air Indicator	Transition Rate Displays
20	8	Via main menu
Shifted Cross Points	Power Status Indicators	LCD Menu Displays
40	None	2
Crosspoint Button Type	DSK Transition Selectors	Menu Control
Tri-Color LED	4 x Auto, Cut, Tie/Preview	2 x 20 buttons

Dedicated Macro Buttons 2 x 20	Source Select Bus 2	Numeric Keypad 1
Transport Control Buttons 8	Fader Bar 2	
Destination Bus 2	3 Axis Joystick 1	

Software

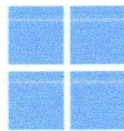
Software Applications

ATEM Software Control Panel.

Operating Systems



Mac 14.0 Sonoma,
Mac 15.0 Sequoia or later.



Windows 10 and 11.

Power Requirements

Input Voltage

2 x Internal 100 - 240V AC.

Redundant Power

Yes

Power Usage

100W

Physical Specifications



Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
0° to 40° C (32° to 104° F)	-20° to 60° C (-4° to 140° F)	Up to 95%

What's Included

ATEM 2 M/E Advanced Panel 20

Warranty

1 Year Limited Manufacturer's Warranty.

All items on this website are copyright Blackmagic Design Pty. Ltd. 2025, all rights reserved. All trademarks are property of their respective owners. MSRP includes duties, but excludes sales tax and shipping costs. This website uses remarketing services to advertise on third party websites to previous visitors to our site. You can opt out at any time by changing cookie settings. [Privacy Policy](#)

Blackmagic Design Authorized Reseller

EU Declaration of Conformity (DoC)

We

Company name: Blackmagic Design Pty Ltd
Postal address: 11 Gateway Court
Postcode and City: 3207 Port Melbourne
Telephone number: +61 3 9682 4770
E-mail address: compliance@blackmagicdesign.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus Model/Product: HyperDeck Studio HD Plus
Type: Video Recorder
Batch: N/A
Serial number: Serial number greater than 56040

Object of the declaration (identification of apparatus allowing traceability; it may include a colour image of sufficient clarity where necessary for the identification of the apparatus):



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
RoHS Directive 2011/65/EU + (EU) 2015/863

The following harmonised standards and technical specifications have been applied:

Title, Date of standard/specification:

EN 55035	2017 + A11:2020
EN 55032	2015 + A11:2020
EN 63000	2018
EN 62368-1	2014 + AC:2015

Notified body (where applicable):
N.A.

4 digit notified body number:
N.A.

Additional information:

This product is supplied without a power cord

Signed for and on behalf of:

Blackmagic Design Pty Ltd
Place of issue

14/12/2021
Date of issue

Steve Brennan, Compliance Manager
Name, function, signature

HyperDeck Studio HD Plus



HyperDeck Studio HD Plus includes all the features of the Mini model, but is larger so it has more space for extra controls and extra connections. This model adds 6G-SDI so it can record and playback ProRes up to Ultra HD 30fps, and it includes an SDI loop out and HDR support. Plus the two 6G-SDI outputs allow fill and key playback up to 1080p60. There is also an HDMI input and a dedicated 3G-SDI monitoring output with overlays. Any button pushed on the front panel is sent to a dedicated RS-422 remote output and the DC power is now a broadcast style XLR connector. The front panel is also upgraded with better transport control buttons, a headphone socket and built in speaker.

Connections

SDI Video Inputs

1

SDI Video Outputs

2

SDI Monitor Outputs

1

SDI Rates

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

HDMI 2.0 Video Inputs

1

HDMI 2.0 Video Outputs

1

Built in Speaker

Mono

Audio Output

1 x 6.35 mm headphone jack.

Screen

2.2 inch LCD.

Timecode Connections

1 x BNC In, 1 x BNC Out.

Reference Connections

1 x BNC In, 1 x BNC Out.
Tri-Sync or Black Burst.

SDI Audio Inputs

16 channels embedded audio.

SDI Audio Outputs

16 channels embedded audio.

HDMI Audio Inputs

8 channels embedded audio.

HDMI Audio Outputs

8 channels embedded audio.

Remote Control

1 x RS-422 In, 1 x RS-422 Out.

Recorder Configuration

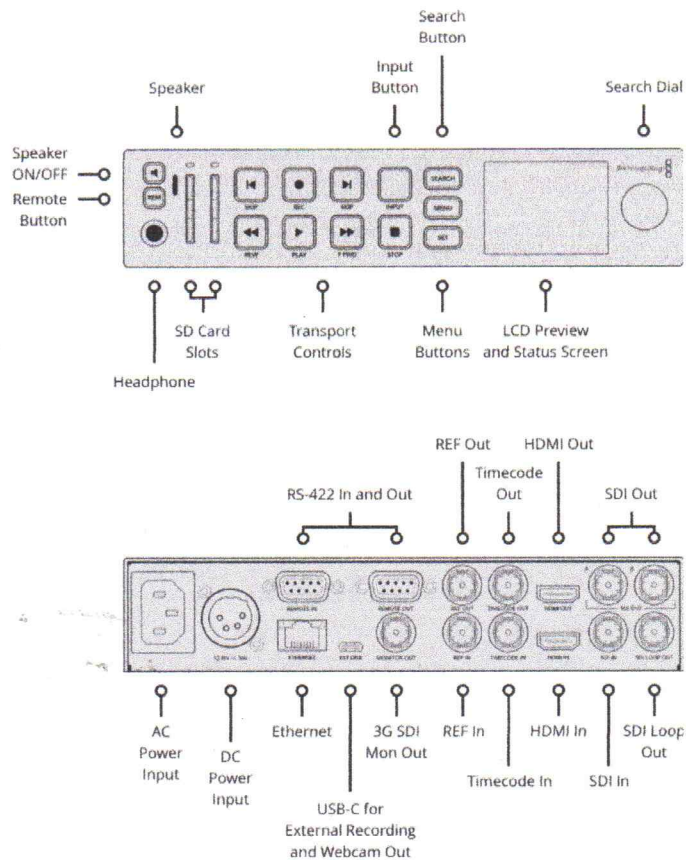
Via user interface or Blackmagic
HyperDeck Ethernet Protocol.

Ethernet

1Gb/s

Computer Interface

1 x USB Type-C 3.0 (up to 5Gb/s) for
external drive recording, webcam
out, software configuration
and updates.



Standards

SD Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

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

2K DCI Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30

4K DCI Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI

SDI Compliance

SMPTE 259M, SMPTE 292M,
SMPTE 296M, SMPTE 424M,
SMPTE 425M level A and B,
SMPTE 2081-1, SMPTE 2081-10,
SMPTE 2084 and SMPTE 2108-1.

SDI Metadata Support

HD RP188 and closed captioning
CEA-708. HDR Metadata supported
on SDI.

Supported HDMI Formats

525i59.94 NTSC, 625i50 PAL,
720p50, 720p59.94, 720p60,
1080i50, 1080i59.94, 1080i60,
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p50,
1080p59.94, 1080p60,
2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI,
2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30,
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI

Audio Sampling

Television standard 24-bit, 48 kHz
sample rate.

Video Sampling

4:2:2 YUV

Color Precision

10-bit

Color Space

REC 601, REC 709, REC 2020. 33 point 3D LUTs can be applied to SDI monitor out.

HDR Support

Hybrid Log-Gamma, ST2084 300, ST2084 500, ST2084 800, ST2084 1000, ST2084 2000, ST2084 4000, ST2084

Copy Protection

HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.

Multi Rate Support

Auto detection of SD, HD and 6G-SDI.

Media**Media**

2 x SD card slots
1 x USB-C 3.0 expansion port for external recording of SD, HD, 2K DCI, Ultra HD and 4K DCI.
Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for compatible media.

Media Type

UHS-I and UHS-II SD cards.

Media Format

Can format media to ExFAT (Windows/Mac) or HFS+ (Mac) file systems.

Supported Codecs

ProRes HQ QuickTime, ProRes 422 QuickTime, ProRes LT QuickTime, ProRes Proxy QuickTime for all formats up to 2160p30. Playback only of ProRes 4444 QuickTime up to 1080p60 with auto routing of fill and key over SDI A and B outputs. DNxHD 220x, DNxHD 220x MXF, DNxHD 145, DNxHD 145 MXF, DNxHD 45, DNxHD 45 MXF for 720p and 1080p HD formats up to 60fps. DNxHR HQX, DNxHR HQX MXF, DNxHR SQ, DNxHR SQ MXF, DNxHR LB, DNxHR LB MXF for 2K DCI and 2160p formats up to 30fps. H.264 SDI 4:2:2 10-bit, H.264 High 4:2:0 8-bit, H.264 Medium 4:2:0 8-bit, H.264 Low 4:2:0 8-bit for all formats up to 1080p60.

Control**Built in Control Panel**

13 buttons for transport and device control with search dial and 2.2 inch color display.

External Control

RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck Ethernet Protocol. Supports remote FTP file upload.

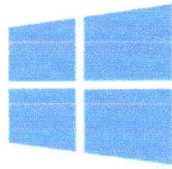
Software**Software Included**

Blackmagic OS
Blackmagic HyperDeck Setup
Internal Software Upgrade
Loaded at system start, or via Blackmagic HyperDeck Setup using USB port.

Operating Systems



Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.



Windows 10, 64-bit.

Displays

Built in 2.2 inch LCD for video, audio and timecode monitoring and menu settings.
LED indicator lights above the SD media slots.

Power Requirements

Power Supply

1 x Internal 100 - 240V AC 50/60Hz.
1 x 4 pin XLR 12V DC In for external
power supply or battery use.

Power Usage

100 W max.

Accessories

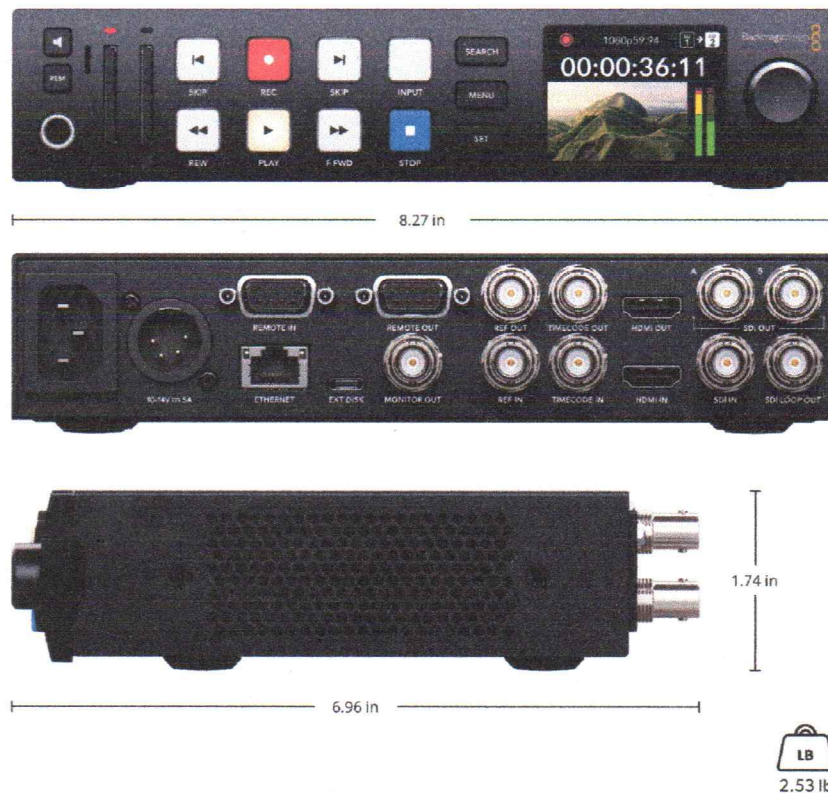
Optional Accessories

HyperDeck Extreme Control
Teranex Mini Rack Shelf

Physical Installation

Half rack unit width, 1 rack unit height.

Physical Specifications



Environmental Specifications

Operating Temperature
0° to 40° C (32° to 104° F)

Storage Temperature
-20° to 60° C (-4° to 140° F)

Relative Humidity
0% to 90% non-condensing

What's Included

HyperDeck Studio HD Plus

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller

EU Declaration of Conformity (DoC)

We

Company name: Blackmagic Design Pty Ltd
Postal address: 11 Gateway Court
Postcode and City: 3207 Port Melbourne
Telephone number: +61 3 9682 4770
E-mail address: compliance@blackmagicdesign.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus Model/Product: ATEM 1 M/E Constellation HD
Type: Video Switcher
Batch: N/A
Serial number: Serial number greater than 56040

Object of the declaration (identification of apparatus allowing traceability; it may include a colour image of sufficient clarity where necessary for the identification of the apparatus):



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
RoHS Directive 2011/65/EU + (EU) 2015/863

The following harmonised standards and technical specifications have been applied:

Title, Date of standard/specification:

EN 55035	2017 + A11:2020
EN 55032	2015 + A11:2020
EN 63000	2018
EN 62368-1	2014 + AC:2015

Notified body (where applicable):
N.A.

4 digit notified body number:
N.A.

Additional information:

This product is supplied without a power cord

Signed for and on behalf of:

Blackmagic Design Pty Ltd
Place of issue

27/04/2022
Date of issue

Steve Brennan, Compliance Manager
Name, function, signature

ATEM 2 M/E Constellation HD



ATEM 2 M/E Constellation HD is a high definition live production switcher packed with advanced features! The 2 M/E design includes 20 standards converted 3G-SDI inputs and 12 independent 3G-SDI aux outputs! It also includes a USB webcam output, SuperSource processor, DVEs, chroma keyers, media players, multiviews and more! You even get built in talkback and a professional built in Fairlight audio mixer with EQ and dynamics!

Connections

Total Video Inputs

20

Total Video Outputs

12

SDI Rates

1.5G, 3G

Total Audio Inputs

2 x balanced 1/4 inch Jack,
1 x 5 pin XLR Talkback.

Total Audio Outputs

1 x 5 pin XLR Talkback.

SDI Audio Inputs

8 Ch embedded audio on all
SDI inputs.

SDI Audio Outputs

16 Ch embedded audio on all
SDI outputs.

Timecode Connections

None

Reference Input

Tri-Sync or Black Burst.

Video Input Re-Sync

On all 20 inputs.

Frame Rate and Format Converters

On all 20 inputs.

SDI Aux Outputs

Any of the 12 SDI outputs.

SDI Preview Outputs

Any of the 12 SDI outputs.

SDI Program Outputs

Any of the 12 SDI outputs.

Down Converted SDI

Program Output

None

Webcam Output

1 x USB-C supporting 720p or 1080p
at PGM frame rate.

Total Multi Views

2 x 3G-SDI

Control Panel Connection

Ethernet. Direct connection between
panel and chassis, or via network.

Internal Timecode Generator

Yes

Talkback

RJ45 for 3rd party talkback systems.

Tally Output

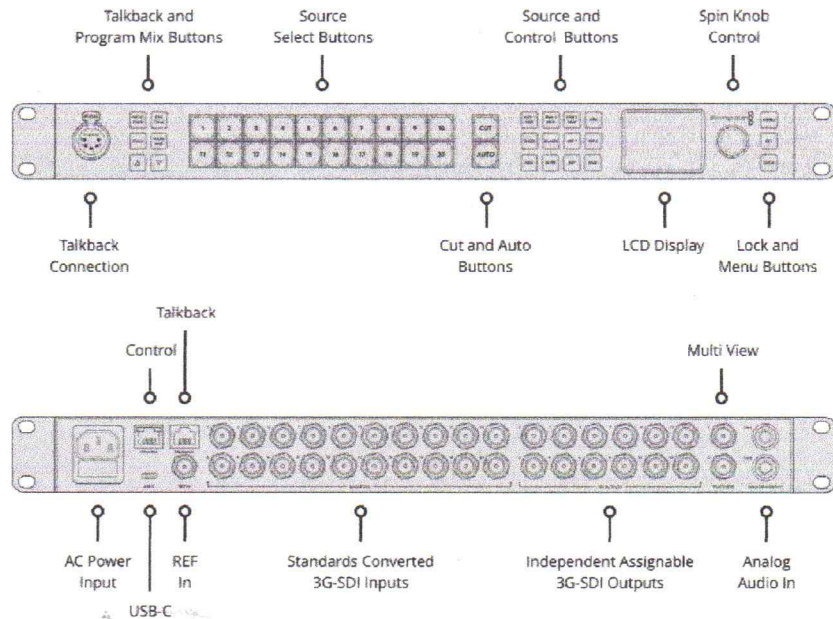
Added via ethernet connection to
Blackmagic Design GPI and Tally
Interface product. (Not included).

Ethernet

Supports 10/100/1000 BASE-T.

Computer Interface

1 x USB-C supports USB 2.0



Standards

SD Video Standards

None

HD Video Standards

720p50, 720p59.94, 720p60
1080i50, 1080i59.94, 1080i60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p50,
1080p59.94, 1080p60

SDI Compliance

SMPTE 292M, SMPTE 296M,
SMPTE 424M, SMPTE 425M level A
and B.

Video Sampling

4:2:2

Color Precision

10-bit.

Color Space

REC 709

SDI Auto Switching

Automatically detects between 1.5G-
SDI and level A or level B 3G-SDI.

Product Specifics

Upstream Keyers

8

Downstream Keyers

2

Advanced Chroma Keyers

8

SuperSource

1

Talkback Support

Yes

Mix Minus Support

Yes

Linear/Luma Keyers

11

Transition Keyer (Stinger/DVE)

2 Stinger, 2 DVE.

Total Number of Layers

15

Pattern Generators

11

Color Generators

2

Control Panel

Front fascia emergency switching,
software or optional hardware panel.

Routable Windows

32

Tally

Red for program and green for
preview indication.

Windows Source Labels

Yes

Multi View Monitoring

Multi View Monitoring

2 x multi views each configurable to 16, 13, 10, 7 or 4 up views. Includes monitoring of Program, Preview, Inputs, Media Players, M/Es, DSKs, SuperSource, Clean Feed with optional labels and audio meters.

Multi View Video Standard

HD

Display Minimum Resolution

1366 x 768

Media Player

Media Players

2

Media Pool Clip Capacity

2 x up to 1080p60.

Media Pool Still Image Format

PNG, TGA, BMP, GIF, JPEG and TIFF.

Channels

Fill and key for each media player.

Media Player Clip Length in 720 HD

800 frames.

Media Pool Video File Format

TGA Sequence.

Media Pool Still Image Capacity

40

Media Player Clip Length in 1080 HD

400 frames.

Media Pool Audio File Format

WAV, MP3 and AIFF.

Display

Front panel

Built in 2.2 inch LCD monitor for video, 22 LED buttons for setup and emergency switching, 8 source buttons, 4 transition buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.

Processing

Processing Delay

< 10 lines.

Audio Mixer

48 Channel mixer

Selectable On/Off/Audio-Follow-Video.

Level and Peak metering.

Master gain control.

6 band parametric EQ, Dynamics including Expander, Gate, Compressor and Limiter.

Down Conversion

None

Software

Control Panel Included

ATEM Software Control Panel included free for Mac 11.11 Big Sur, Mac 12 Monterey or later and Windows 10 or 11.

Software Updates

Using USB or Ethernet connection directly connected to Mac or Windows computers. Includes ATEM Setup Utility.

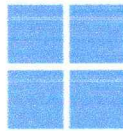
Configuration

Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Setup Utility connected via USB to chassis.

Operating Systems



Mac 14.0 Sonoma,
Mac 15.0 Sequoia or later.



Windows 10 and 11.

Power Requirements

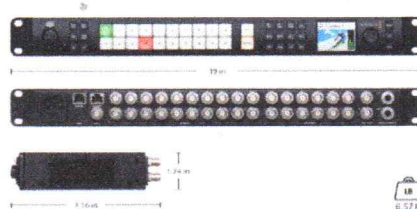
Power Supply

1 x Internal 100 - 240 AC.

Power Usage

52W

Physical Specifications



Physical Installation

Physical Installation

1 Rack Unit Size.

Environmental Specifications

Operating Temperature

0° to 40° C (32° to 104° F)

Storage Temperature

-20° to 60° C (-4° to 140° F)

Relative Humidity

0% to 90% non-condensing
