

Blackmagic Design BMD-ULTMKEY12/D/8K Ultimatte 12 8K Ultimatte 12 4K Real Time Compositing Processor

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

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60

8K Video Standards

4320p23.98, 4320p24, 4320p25, 4320p29.97, 4320p30, 4320p50, 4320p59.94, 4320p60

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M level A and B, SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1, SMPTE 2082-10, SMPTE 2081-12, SMPTE 2082-11 and SMPTE 2082-12.

Video Sampling

- 4:2:2

Color Precision

- 10-bit

Color Space

- REC 601, REC 709, REC 2020.

Multiple Rate Support

Auto detection of SD, HD, 6G-SDI, 12G-SDI, 2SI Quad Link 12G-SDI, 2SI Dual Link 12G-SDI and 2SI Quad Link 6G-SDI.

Composite Sources

Foreground

- 4 x 12G-SDI In with Loop Out

Background

- 4 x 12G-SDI In with Loop Out
- Still from Media Pool

Background Matte

- 4 x 12G-SDI In with Loop Out
- Internal Window
- Still from Media Pool

Garbage Matte

- 4 x 12G-SDI In
- Internal Window
- Still from Media Pool

Holdout Matte

- 4 x 12G-SDI In
- Internal Window
- Still from Media Pool

Layer

- 4 x 12G-SDI In with Loop Out
- Still from Media Pool

Layer Matte

- 4 x 12G-SDI In with Loop Out
- Internal Window
- Still from Media Pool

Composite Outputs

Fill

- 4 x 12G-SDI

Matte

- 4 x 12G-SDI

Program

- 4 x 12G-SDI

Talent

- 4 x 12G-SDI

Monitor

Monitor In

- 4 x 12G-SDI for monitor cascade

Monitor Out

- 4 x 12G-SDI

For monitoring Program, Foreground Input, Background Input, Combined Matte, Internal Matte, Fill Out, Layer Input, Background Matte Input, Garbage Matte Input, Holdout Matte Input, Layer Matte Input, Processed Layer Matte, Processed Holdout Matte, Processed Garbage Matte, Processed Background Matte, Screen Correction.

Media Pool

Background Still Image Formats

- TGA, TIFF, BMP, PNG, JPG.

Background with Alpha Still Image Formats

- TGA, TIFF, BMP.

Layer Image Still Image Formats

- TGA, TIFF, BMP, PNG, JPG.

Layer with Alpha Still Image Formats

- TGA, TIFF, BMP.

Garbage Matte Still Image Formats

- TIFF, BMP, PNG, JPG.

Holdout Matte Still Image Formats

- TIFF, BMP, PNG, JPG.

Media Pool Memory

- 6GB non-volatile internal storage.

Displays

Built in 5 inch color display for device name, video preview, audio meters and menus.

Control

Front Panel

- 5 inch color display with 3 menu buttons and spin knob.

Control Connection

Network or direct Ethernet connection to a computer running Ultimatte Software Control or Ultimatte Smart Remote 4.

Software Control

- Ultimatte Software Control supported on Mac™ or Windows™ computers.

Hardware Control Panel

- Ultimatte Smart Remote 4

Custom Control

Ethernet protocol and GPIO pin out included in the Ultimatte instruction manual.

Software

Software Updates

Using USB-C or Ethernet connection to Mac™ or Windows™ computers.

Configuration

Ultimatte IP address is set via the front panel or Ultimatte setup utility connected via USB.

Operating Systems

- Mac 11.0 Big Sur,
- Mac 12.0 Monterey or later.
- Windows 10, 64-bit.
- Windows 11.

Power Requirements

Power Supply

- 2 x Internal 100-240V AC, 50/60Hz

Power Usage

- 218W

Accessories

Optional Accessories

- Ultimatte Smart Remote 4

Physical Installation

- 2 rack units height.

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.