

Ultimatte 12 8K



Ultimatte 12 8K is an advanced real time compositing processor designed for keying live action video with next generation broadcast graphics, virtual sets and more. Ultimatte 12 8K features new algorithms and color science, incredible edge handling and color separation, amazing color fidelity, and better spill suppression than ever before. The high performance Quad Link 12G-SDI design gives you the power to work in HD, Ultra HD and incredible 8K with sub pixel processing for an amazing image.

\$6,995

Connections

SDI Video Inputs

32

SDI Rates

270Mb, 1.5G, 3G, 6G, 12G.

GPIO

DE15

SDI Video Outputs

20

Video Input Re-Sync

On all inputs.

Ethernet

Up to 10Gb/s for device control and loading stills into Media Pool.

SDI Video Loop Outputs

20

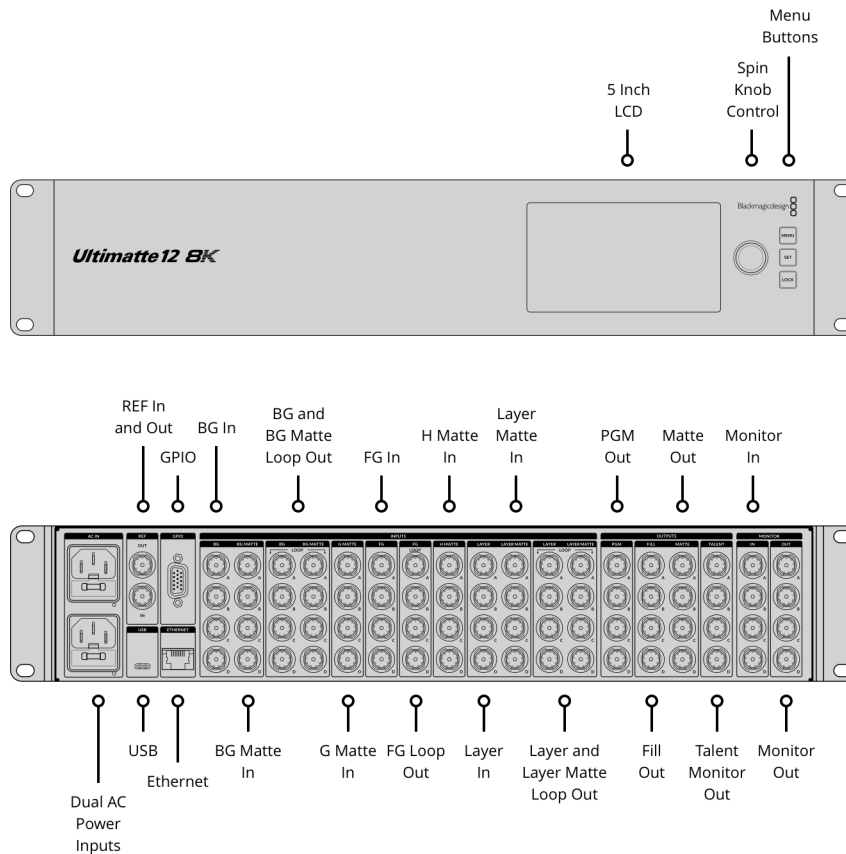
reclocked SD, HD, Ultra HD, 8K for corresponding inputs.

Reference Connections

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

Computer Interface

1 x USB-C 3.0 for device configuration and software 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

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	Garbage 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
Background Matte 4 x 12G-SDI In with Loop Out Internal Window Still from Media Pool	Holdout Matte 4 x 12G-SDI In Internal Window 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	Program 4 x 12G-SDI
Matte 4 x 12G-SDI	Talent 4 x 12G-SDI

Monitor

Monitor In 4 x 12G-SDI for monitor cascade	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.
Monitor Out 4 x 12G-SDI	

Media Pool

Background Still Image Formats TGA, TIFF, BMP, PNG, JPG.	Layer Image Still Image Formats TGA, TIFF, BMP, PNG, JPG.	Holdout Matte Still Image Formats TIFF, BMP, PNG, JPG.
Background with Alpha Still Image Formats TGA, TIFF, BMP.	Layer with Alpha Still Image Formats TGA, TIFF, BMP.	Media Pool Memory 6GB non-volatile internal storage.
	Garbage Matte Still Image Formats TIFF, BMP, PNG, JPG.	

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

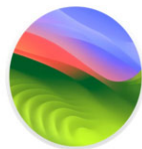
Software Updates

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 13.0 Ventura,
Mac 14.0 Sonoma or later.



Windows 10, 64-bit.
Windows 11.

Power Requirements

Power Supply

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

Power Usage

218W

Accessories

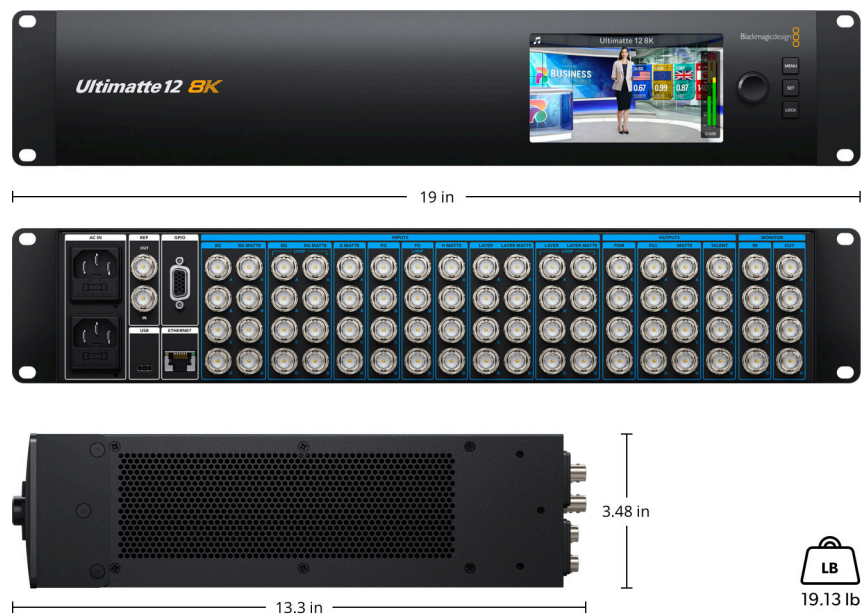
Optional Accessories

Ultimatte Smart Remote 4

Physical Installation

2 rack units height.

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

- Ultimatte 12 8K
- Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller