

Ultimatte 12 HD



Ultimatte 12 HD is an advanced real time compositing processor designed for keying live action video with next generation broadcast graphics, virtual sets and more. Ultimatte 12 HD 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 3G-SDI design gives you the power to work in HD with sub pixel processing for an amazing image.

\$1,009

Connections

SDI Video Inputs

5

SDI Video Outputs

4

SDI Video Loop Outputs

1

reclocked SD or HD Camera FG.

SDI Rates

270Mb, 1.5G, 3G.

Video Input Re-Sync

On all inputs.

Reference Connections

1 x BNC In, 1 x BNC Out.

Tri-Sync or Black Burst.

GPIO

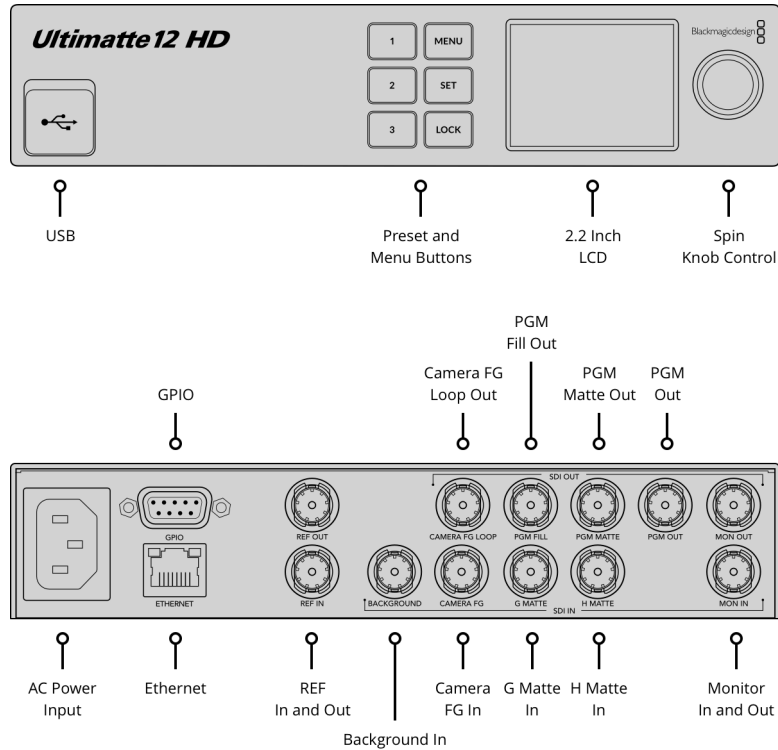
DE15

Ethernet

Up to 1Gb/s for device control and loading stills into Media Pool.

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

SDI Compliance

SMPTE 259M, SMPTE 292M,
 SMPTE 296M, SMPTE 424M,
 SMPTE 425M level A and B.

Video Sampling

4:2:2

Color Precision

10-bit

Color Space

REC 601, REC 709, REC 2020.

Multiple Rate Support

Auto detection of SD and HD.

Composite Sources

Foreground

1 x 3G-SDI In with Loop Out

Background

1 x 3G-SDI In
 Still from Media Pool

Background Matte

Internal Window
 Still from Media Pool

Garbage Matte

1 x 3G-SDI In
 Internal Window
 Still from Media Pool

Holdout Matte

1 x 3G-SDI In
 Internal Window
 Still from Media Pool

Layer

Still from Media Pool

Layer Matte

Internal Window
 Still from Media Pool

Composite Outputs

Fill 1 x 3G-SDI	Matte 1 x 3G-SDI	Program 1 x 3G-SDI
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Monitor

Monitor In 1 x 3G-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 1 x 3G-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 2.2 inch color display for device name, video preview, video standard audio meters, status and menus.

Control

Front Panel 2.2 inch color display, 3 preset buttons, 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
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Custom Control

Ethernet protocol and GPIO pin out included in the [Ultimate instruction manual](#).

Software

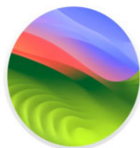
Software Updates

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

Configuration

Ultimate IP address is set via the front panel or Ultimate 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

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

Power Usage

15W

Accessories

Optional Accessories

Ultimate Smart Remote 4

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.
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What's Included

Ultimatte 12 HD
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller