

# 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.

\$895

## 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**

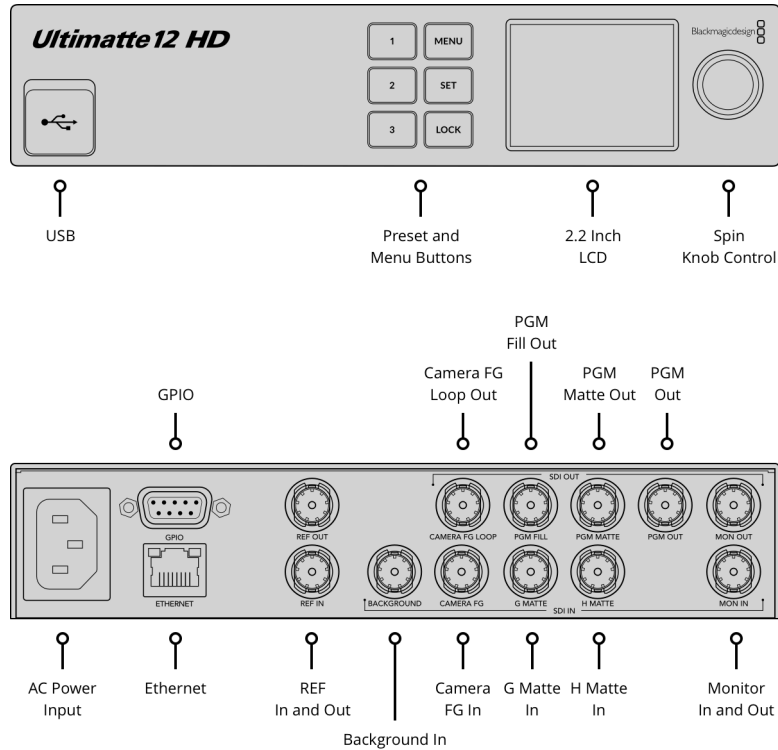
DE15

**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

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## Composite Outputs

<b>Fill</b> 1 x 3G-SDI	<b>Matte</b> 1 x 3G-SDI	<b>Program</b> 1 x 3G-SDI
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## Monitor

<b>Monitor In</b> 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.
<b>Monitor Out</b> 1 x 3G-SDI	

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## Media Pool

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

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## Displays

Built in 2.2 inch color display for device name, video preview, video standard audio meters, status and menus.

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## Control

<b>Front Panel</b> 2.2 inch color display, 3 preset buttons, 3 menu buttons and spin knob.	<b>Control Connection</b> Network or direct Ethernet connection to a computer running Ultimatte Software Control or Ultimatte Smart Remote 4.	<b>Software Control</b> Ultimatte Software Control supported on Mac™ or Windows™ computers.  <b>Hardware Control Panel</b> Ultimatte Smart Remote 4
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## Custom Control

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

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## 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.

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## Operating Systems



Mac 11.0 Big Sur,  
Mac 12.0 Monterey or later.



Windows 10, 64-bit.  
Windows 11.

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## Power Requirements

### Power Supply

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

### Power Usage

15W

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## Accessories

### Optional Accessories

Ultimate Smart Remote 4

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## Physical Installation

Half rack unit width, 1 rack unit height.

Physical Specifications



Environmental Specifications

<b>Operating Temperature</b> 0° to 40°C (32° to 104°F)	<b>Storage Temperature</b> -20° to 60°C (-4° to 140°F)	<b>Relative Humidity</b> 0% to 90% non-condensing.
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What's Included

Ultimatte 12 HD  
Welcome wallet with QR code for software download

Warranty

12 Month Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller