

# Ultimatte 12 4K



Ultimatte 12 4K is an advanced real time compositing processor designed for keying live action video with next generation broadcast graphics, virtual sets and more. Ultimatte 12 4K 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 12G-SDI design gives you the power to work in Ultra HD and HD with sub pixel processing for an amazing image.

€2 549

## Connections

**SDI Video Inputs**

8

**SDI Rates**

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

**GPIO**

DE15

**SDI Video Outputs**

9

**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**

7

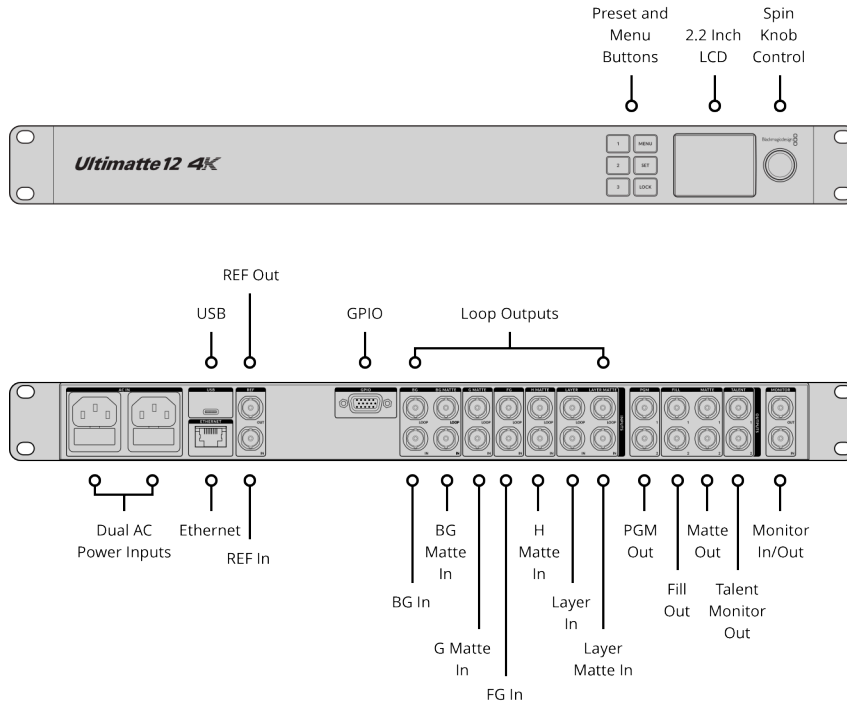
Reclocked SD, HD, Ultra HD for corresponding inputs.

**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

### 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 and SMPTE 2082-10.

### 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 and 12G-SDI.

## Composite Sources

### Foreground

1 x 12G-SDI In with Loop Out

### Background

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

### Background Matte

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

### Garbage Matte

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

### Holdout Matte

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

### Layer

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

### Layer Matte

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

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## Composite Outputs

<b>Fill</b> 2 x 12G-SDI	<b>Program</b> 2 x 12G-SDI
<b>Matte</b> 2 x 12G-SDI	<b>Talent</b> 2 x 12G-SDI

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## Monitor

<b>Monitor In</b> 1 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.
<b>Monitor Out</b> 1 x 12G-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

**Front Panel**  
2.2 inch color display, 3 preset buttons,  
3 menu buttons and spin knob.

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**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.

**Custom Control**

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

**Hardware Control Panel**

Ultimatte Smart Remote 4

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## 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.

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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**

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

**Power Usage**

54W

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## Accessories

**Optional Accessories**

Ultimatte Smart Remote 4

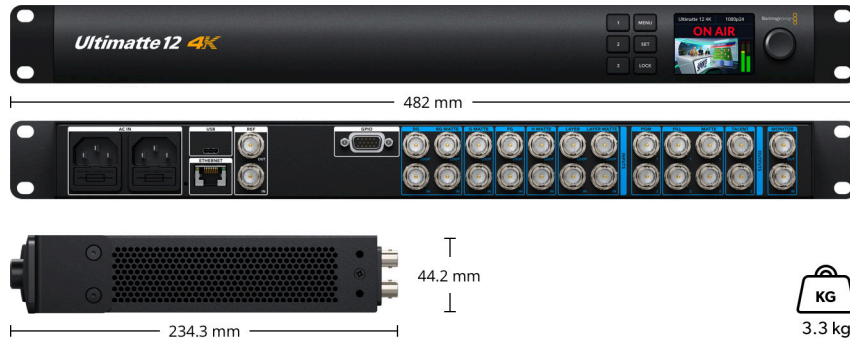
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## Physical Installation

1 rack unit height

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## Physical Specifications



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## 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 4K

Welcome wallet with QR code for software download

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## Warranty

12 Month Limited Manufacturer's Warranty.

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