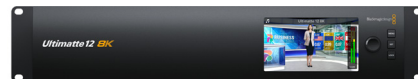**Blackmagic**design

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.

€7 155

Connections

SDI Video Inputs
32

SDI Video Outputs
20

SDI Video Loop Outputs
20
reclocked SD, HD, Ultra HD, 8K for corresponding inputs.

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

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

Computer Interface
1 x USB-C 3.0 for device configuration and software updates.

Menu
Buttons

Spin
Knob
Control

5 Inch
LCD

Ultimatte 12 8K

Blackmagicdesign

MENU
SET
LOCK

REF In
and Out
GPIO
BG In

BG and
BG Matte
Loop Out

FG In

H Matte
In

Layer
Matte
In

PGM
Out

Matte
Out

Monitor
In

USB
Ethernet

BG Matte
In

G Matte
In

FG Loop
Out

Layer
In

Layer and
Layer Matte
Loop Out

Fill
Out

Talent
Monitor
Out

Monitor
Out

Dual AC
Power
Inputs
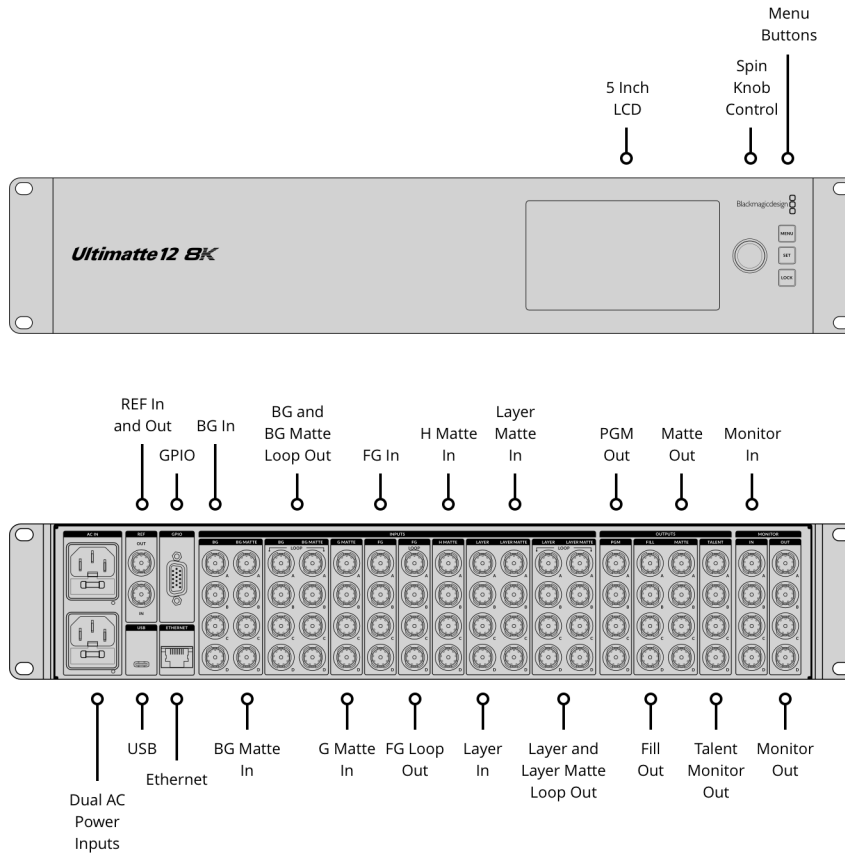
Standards

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

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

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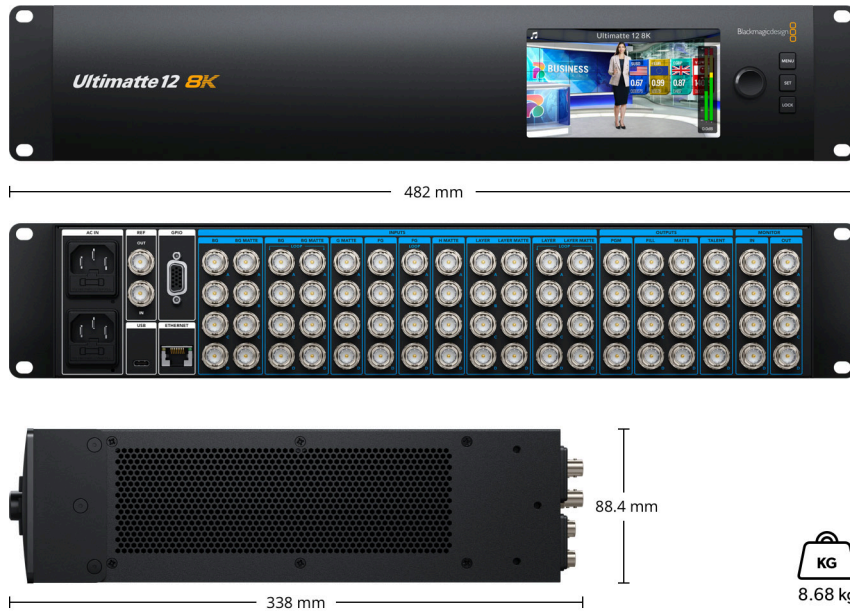2 x Internal 100-240V AC, 50/60Hz

Power Usage
218W

Accessories

Optional Accessories
Ultimatte Smart Remote 4

Physical Installation

2 rack units height.

Physical Specifications

482 mm

88.4 mm

338 mm

8.68 kg

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

12 Month Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller