

# Blackmagic Audio Monitor 12G G3



Blackmagic Audio Monitor 12G G3 is a powerful rack mount audio monitoring solution in a compact 1 rack unit size. This new model features 10G Ethernet SMPTE-2110 IP input to allow monitoring of IP broadcast systems without an external converter. Blackmagic Audio Monitor 12G G3 also includes a large audio meter with accurate ballistics, 12G-SDI input for SD, HD and Ultra HD support, balanced analog XLR, HiFi and AES/EBU inputs and HDMI video output for monitoring SDI and IP video sources.

€1 275

## Connections

### SDI Video Inputs

1

### SDI Video Outputs

1 loop out.

### SDI Rates

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

### HDMI 2.0 Video Outputs

1

### Multi Rate Support

SDI and HDMI are switchable between standard definition, high definition and ultra high definition.

### SDI Video Loop

1 x reclocked 10-bit SD-SDI, HD-SDI, 3G-SDI, 6G-SDI and 12G-SDI.

### Analog Audio Inputs

2 x XLR. 2 x RCA HiFi.

### Analog Audio Outputs

1 x 6.5mm headphone socket.

### Digital Audio Inputs

1 x XLR.

### Built in Speaker

Stereo with 2-way crossover and independent stereo subwoofers.

### AES/EBU Audio Inputs

2 channels balanced 110Ω AES/EBU via XLR.

### SDI Audio Inputs

16 channels embedded in SD, HD and UltraHD 4K.

### SDI Audio Outputs

16 channels embedded audio loop out.

### HDMI Audio Outputs

8 Channels embedded in SD, HD and 4K.

### Ethernet

1 x 10Gb/s RJ-45 connector supporting 10/100/1000/10G BASE-T for SMPTE-2110 IP video in, configuration and firmware updates.

### Computer Interface

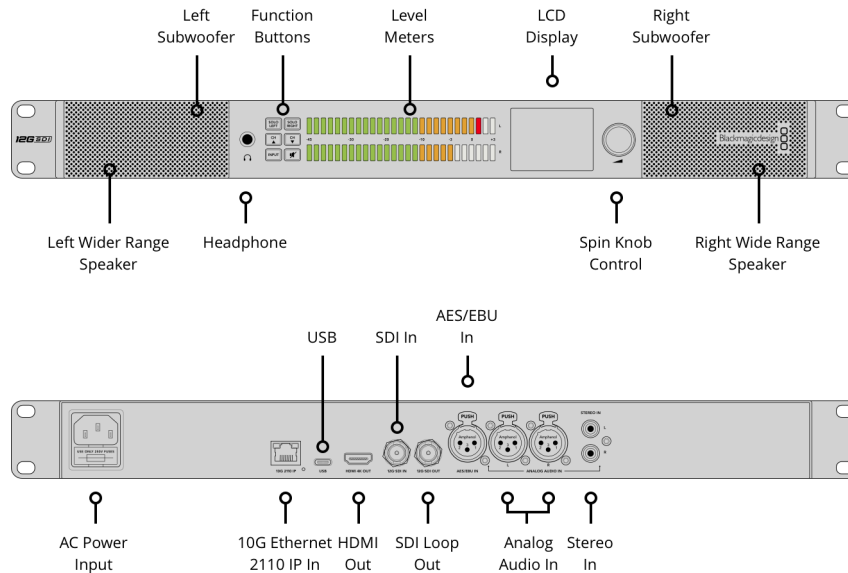
USB-C for configuration and firmware updates.

### Metering

2 x 27 RGB segment LED VU, PPM or Loudness meters.

### Modes

Push button interface allows for input selection, channel selection, independent left and right audio, mute and volume control with scroll wheel.



## 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, 1080p47.95,  
 1080p48, 1080p50, 1080p59.94,  
 1080p60  
 1080PsF23.98, 1080PsF24,  
 1080PsF25, 1080PsF29.97, 1080PsF30

### 2K Video Standards

2K DCI 23.98p, 2K DCI 24p,  
 2K DCI 25p, 2K 23.98PsF, 2K 24PsF,  
 2K 25PsF

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
 2160p29.97, 2160p30, 2160p50,  
 2160p59.94, 2160p60

### 4K Video Standards

4KDCIp23.98, 4KDCIp24, 4KDCIp25,  
 4KDCIp29.97, 4KDCIp30, 4KDCIp50,  
 4KDCIp59.94, 4KDCIp60

### 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 2110-20, SMPTE  
 2110-21, SMPTE 2110-30, SMPTE  
 2110-40, SMPTE 2084, SMPTE 2108-1.

### SDI Auto Switching

Automatically selects between SD,  
 HD, 3G-SDI level A and B, 6G-SDI  
 and 12G-SDI.

### Audio Sampling

96 KHz and 24 bit.

### Video Sampling

4:2:2 and 4:4:4

## Audio Meter Ballistics

54 RGB segment LEDs allowing  
 selection of metering with VU, PPM  
 EBU, PPM BBC or Loudness. Includes  
 replaceable level scale.

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# IP Video Compliance

## SMPTE 2110-20 (Uncompressed Video)

IGMP v2

## SMPTE 2110-21 (Traffic Shaping)

Sender: Narrow

Receiver: Narrow, Wide Synchronous, Asynchronous

## SMPTE 2110-30 (PCM)

Audio Conformance level: Level C

## SMPTE 2110-40 (Ancillary Data)

Full access to entire SMPTE ancillary data stream. Includes RP 188/SMPTE 12M-2, closed captioning and HDR static metadata.

## Precision Time Protocol

IEEE 1588-2008 (PTP v2)

ST 2059-1

ST 2059-2

## NMOS IS-04 Discovery and Registration

v1.3.2

Peer-to-peer via mDNS/DNS-SD

## NMOS IS-05

## Connection Management

v1.1.2

## NMOS BCP-002-01

Natural Grouping

## NMOS BCP-004-01

Receiver capabilities

## Codec

Blackmagic IP10 codec used when converting 12G-SDI rates to 10G 2110 IP video.

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# Control

## Built-in Control Panel

2.2 inch display for viewing video input, video standard and selected audio input.

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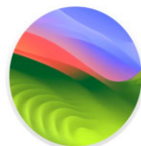
# Software

## Internal Software Upgrade

Via USB connection and Ethernet

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# Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

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# Display

## Display Element

2.2 inch diagonal color LCD.

## Display Resolution

320 x 240.

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### Input Display

SDI video, format, audio type  
and audio channels.

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### Power Requirements

#### Power Supply

1 x Internal 100 - 240V AC.

#### Power Usage

55 Watts

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### Physical Installation

1 rack unit.

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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 45° C (-4° to 113° F)

#### Relative Humidity

0% to 90% non-condensing

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### What's Included

Blackmagic Audio Monitor 12G G3  
PPM and Loudness Scale Stickers  
Welcome wallet with QR code for software download

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### Warranty

1 Year Limited Manufacturer's Warranty.

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