

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.

\$1,425

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

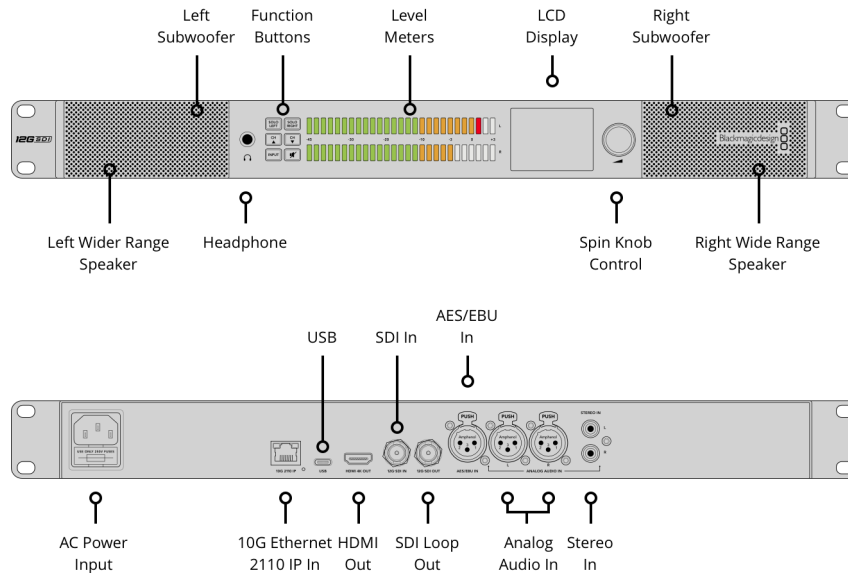
USB-C for configuration and firmware updates.

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.

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.

Control

Built-in Control Panel

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

Software

Internal Software Upgrade

Via USB connection and Ethernet

Operating Systems



Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.



Windows 10 and 11.

Display

Display Element

2.2 inch diagonal color LCD.

Display Resolution

320 x 240.

Input Display

SDI video, format, audio type
and audio channels.

Power Requirements

Power Supply

1 x Internal 100 - 240V AC.

Power Usage

55 Watts

Physical Installation

1 rack unit.

Physical Specifications



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

What's Included

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

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller