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.

€1 155

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.

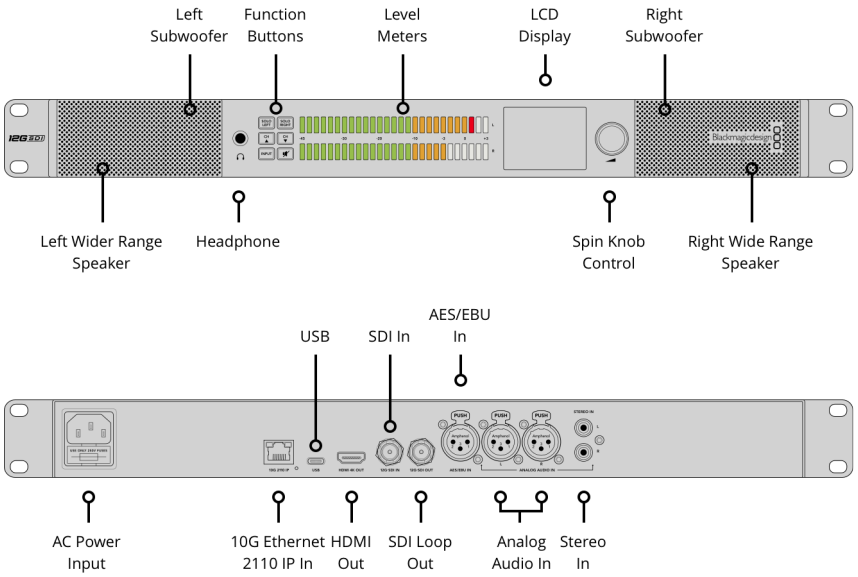
HDMI Audio Outputs
8 Channels embedded in SD, HD and 4K.

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, 2160p47.95, 2160p48, 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.

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