

ATEM Monitoring Rack Panel 20



The ATEM Monitoring Rack Panel 20 is a video converter built into a 1RU rack-mount ATEM switcher control panel! It features 20 buttons for controlling a local ATEM switcher, plus a front panel talkback connection. The video converter has two redundant SMPTE-2110 10G Ethernet connections, which are converted to 2 x 12G-SDI outputs and an HDMI output. Video is also displayed on the converter's built-in LCD screen. Simply mount it in a rack and use it when setting up or monitoring a job!

\$1,095

Connections

10G 2110 IP Networks

2 x 10G RJ45 connections.
Supports ST 2022-7 redundant delivery of IP streams over two 2110 networks.

10G Control Network

1 x 1G RJ45 for connection to switcher and NMOS control.

Total Video Inputs

1

Total Video Outputs

3

SDI Video Outputs

2

SDI Rates

1.5G, 3G, 6G, 12G.

HDMI 2.0 Video Inputs

1

SMPTE ST 2110 IP Audio Inputs

16 Ch embedded audio on each 2110 IP video stream over 100G Ethernet.

SMPTE ST 2110 IP Audio Outputs

16 Ch embedded audio on each 2110 IP video stream over 100G Ethernet.

SDI Audio Outputs

16 Ch embedded audio on all SDI outputs.

HDMI Audio Outputs

8 Ch embedded audio on HDMI output.

Talkback

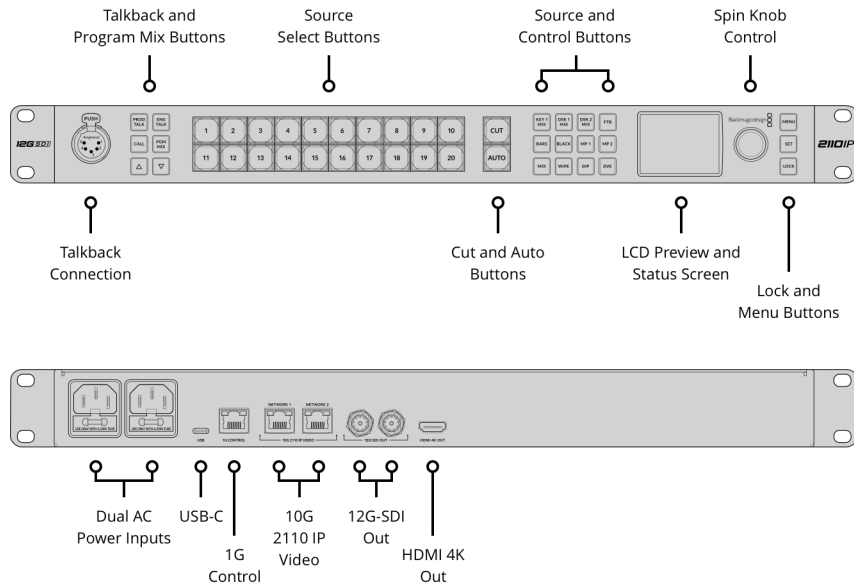
1 x 5-pin XLR Talkback.

Computer Interface

1 x USB-C for setup utility and software updates.

Power

2 x IEC C14 power inputs.



Standards

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

Ultra HD Video Standards

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

SMPTE Compliance

SMPTE 2110-20, SMPTE 2110-21,
 SMPTE 2110-30, SMPTE 2110-40,
 SMPTE 2022-7

Video Sampling

4:2:2

Color Precision

10-bit.

SDI Color Space

Rec. 709, Rec. 2020

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.

Codec

Blackmagic IP10 codec optional for
 2160p59.94 and 2160p60 as 2110 IP
 video.

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

Product Specifics

Talkback Support

Yes

Control

Front panel emergency switching, software or optional hardware panel.

Display

Front panel

Built in HD LCD monitor for video, 22 LED buttons for setup and emergency switching, 8 source buttons, 4 transition buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.

Software

Control Panel Included

ATEM Software Control Panel included free for macOS 14.0 Sonoma, macOS 15.0 Sequoia or later and Windows 10 and 11.

Software Updates

Using USB or Ethernet connection directly connected to Mac or Windows computers. Includes ATEM Setup Utility.

Configuration

Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Setup Utility connected via USB-C to chassis.

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 10 and 11.
Windows 11 for ARM

Power Requirements

Power Supply

2 x 100 - 240V AC 50/60Hz internal power supplies.

Power Supply

2 x IEC C14 sockets.

Power Usage

TBC

Physical Installation

Physical Installation
1 rack unit.

Physical Specifications



Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
0° to 40° C (32° to 104° F)	-20° to 60° C (-4° to 140° F)	0% to 90% non-condensing

What's Included

ATEM Monitoring Rack Panel 20
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller