

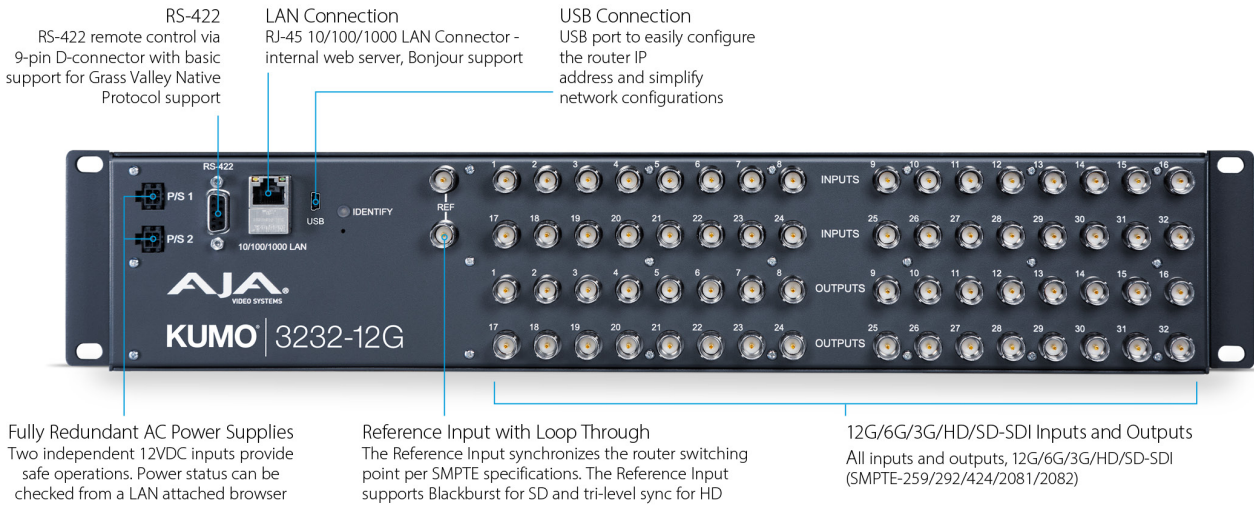


KUMO 3232-12G

KUMO 3232-12G offers increased capacity for larger configurations while maintaining a compact 2RU profile with support for 12G-SDI/6G-SDI/3G-SDI/1.5G-SDI with 32x 12G-SDI inputs and 32x 12G-SDI outputs.

KUMO 12G-SDI routers support large format resolutions, high frame rate (HFR) and deep color formats, while reducing cable runs when transporting 4K/UltraHD over SDI. The routers offer network-based and/or physical control, and mirror the physical form of AJA's production-proven KUMO 3232 and KUMO 1616 routers, with a new USB port for configuring IP addresses via AJA's eMini-Setup software. Built to the same quality standards as all AJA KUMO products, KUMO 3232-12G is the ideal choice for any situation where a balance of size and capacity are critical such as mid-sized post facilities and mobile trucks.

<https://www.aja.com/products/kumo-3232-12g>



Video Format

- 270 Mbps, 1.5 Gbps, 3 Gbps, 6 Gbps, 12 Gbps SDI
- 270 Mbps DVB-ASI

Video Input Digital

- 12G-SDI Inputs
- 32x 12G-SDI BNC, SMPTE-259/292/424/2081/2082

Video Output Digital

- 12G-SDI Outputs
- 32x 12G-SDI BNC, SMPTE-259/292/424/2081/2082
- Noninverting

Ancillary Data

- Passes all SDI embedded ancillary data including audio

Salvo

- Up to 8 Salvos can be configured and saved in each KUMO router

Cable Equalization

(Belden 1694A)

- 12 Gbps, up to 50m
- 6 Gbps, up to 100m
- 3 Gbps, up to 170m
- 1.5 Gbps, up to 200m
- 270 Mbps, up to 390m
- Automatic operation

Reclocking

- 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select

Switching Modes

- Single/Normal, Dual, and Quad Link modes
- Switches in vertical blanking per SMPTE RP-168

Control Panel Compatibility

- AJA KUMO CP – 1RU X-Y Ethernet control panel
- AJA KUMO CP2 – 2RU X-Y Ethernet control panel

Reference Input

- External, 2x BNC
- Looping, nonterminating
- Blackburst or tri-level sync

Network Interface

- 1x RJ-45, 10/100/1000 Ethernet
- Supports AJA KUMO Ethernet control panels, direct connect or networked
- Basic support for Grass Valley Native Protocol
- Embedded web server for remote control

USB Interface

- 1x Mini-USB for IP configuration using AJA eMini-Setup

Serial Interface

- 1x DB-9 Female, RS-422
- Basic support for Grass Valley Native Protocol
- 9-pin D-connector pinout is as follows:

1	GND
2	TX-
3	RX+
4	GND
5	No Connection
6	GND
7	TX+
8	RX-
9	GND
Shell	GND

Size (w x d x h)

- 2RU - 17.4" x 1.54" x 3.50" (441.96 x 39.12 x 88.9 mm)

Weight

- 4.6 lb (2.1 kg)

Power

- External power supply required
 - Enclosure: Dual, redundant, 10-14VDC regulated, 4-pin Molex, 24W typical, 25.2W max.
 - AC adapter, included: 100-240VAC, 50/60 Hz, universal input, 60W
 - Optional redundant AC adapter sold separately, KUMO-PWR

Environment

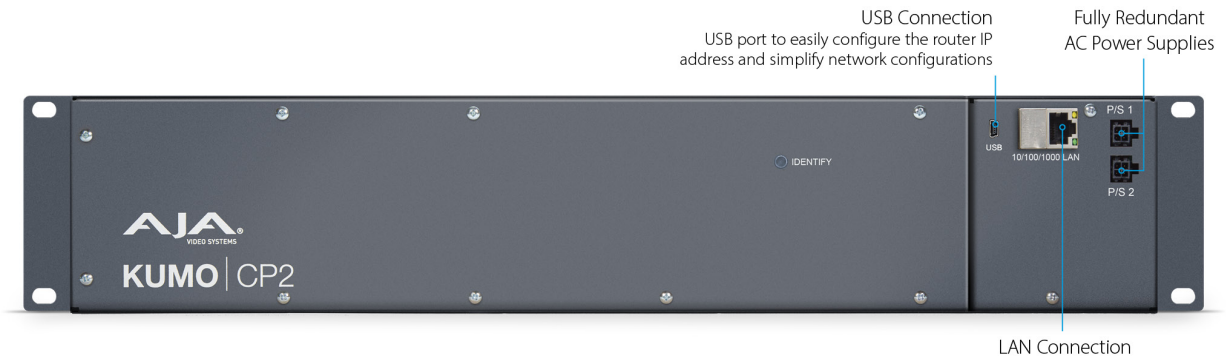
- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)



KUMO CP2

KUMO CP2 is a 2RU control panel that can be used in standalone or networked configurations suitable for all KUMO routers including the KUMO 6464. Connecting via Ethernet to the same network as KUMO routers, KUMO CP2 enables full control from any location without the need for a computer. Up to four KUMO routers can be controlled from a single control panel. Supports ganged dual and quad port routing, allowing users to group together multiple inputs and outputs for Dual Link, 4K and Ultra HD workflows. In addition to HD and SD, every KUMO can route 2 or 4 grouped 3G-SDI connections, supporting uncompressed or RAW 4K and UltraHD signals.

<https://www.aja.com/products/kumo-cp2>



User Interface

- 80 buttons with removable overcap for lens chips



- Includes factory installed lens chip set
- High and Low button tally indication, configurable brightness
- Controls up to four KUMO routers
- Panel Lock feature
- Destination Lock feature

Router Support

- KUMO 1604
- KUMO 1616
- KUMO 3232
- KUMO 6464
- KUMO 1616-12G
- KUMO 3232-12G
- KUMO 6464-12G

Salvo

- 8 Salvos buttons can be enabled to trigger a KUMO router's configured salvos.

Network Interface

- 1x RJ-45, 10/100/1000 Ethernet
- Embedded web server for remote control

USB Interface

- 1x Mini-USB for IP configuration using AJA eMini-Setup

Size (w x d x h)

- 2RU - 17.4" x 1.3" x 3.5" (441.96 x 33.02 x 88.9 mm)

Weight

- 2.1 lb (1.0 kg)

Power

- External power supply required
 - Enclosure: Dual, redundant, 10-14VDC regulated, 4-pin Molex, 4W typical, 9.6W max.
 - AC adapter, included: 100-240VAC, 50/60 Hz, universal input, 60W
 - Optional redundant AC adapter sold separately, KUMO-PWR

Environment

- Safe Operating Temperature: 0 to 40 degrees C (32 to 104 degrees F)
- Safe Storage Temperature (Power OFF): -40 to 60 degrees C (-40 to 140 degrees F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)