KRAMER





ASPEN-32UFX Quick Start Guide

This guide helps you install and use your ASPEN-32UFX for the first time.

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Go to www.kramerav.com/downloads/ASPEN-32UFX to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

✓ ASPEN-32UFX Programmable 32 port 12G SDI Router

1 Power adapter and cord

1 Set of rack ears 4 Rubber feet

1 Quick start guide

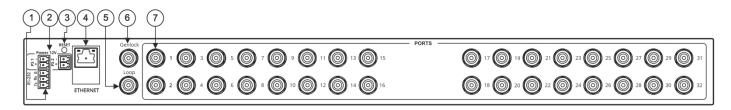
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Step 2: Get to know your ASPEN-32UFX

Programmable 32 port 12G SDI Router

ASPEN-32UFX •••

Powered by Sierra Video



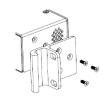
| # | Feature | Function |
|---|---|---|
| 1 | RS-232 (G,Rx,Tx) Terminal Block Connector | Connect to a PC or remote controller. |
| 2 | POWER 12V DC Terminal Block Connector | Dual power supply for redundancy: PS 1 – primary power connector PS 2 – redundant power connector (optional). Connect each power adapter into a separate branch circuit employing a separate service ground. |
| 3 | RESET Button | Press briefly to restart the system. Press for 5 seconds to reset IP settings to factory default values. The device powers up and loads the factory default values: IP address: 192.168.1.39; Mask: 255.255.255.0; Gateway 192.168.1.1. |
| 4 | ETHERNET RJ-45 Connector | Connect to a PC via LAN and also used for firmware upgrade. |
| 5 | LOOP BNC Connector | Connect to the GENLOCK connector of the next unit in the daisy chain or terminate with 75Ω . |
| 6 | GENLOCK BNC Connector | Connect to the GENLOCK source. |
| 7 | PORTS BNC Connectors (32) | Connect to sources and acceptors. |

Step 3: Install ASPEN-32UFX

Install ASPEN-32UFX using one of the following methods:

Remove the three screws from each side of the unit, reinsert those screws through the rack ears and mount on a 19" rack.

Attach the rubber feet and place the unit on a flat surface.





Rev:

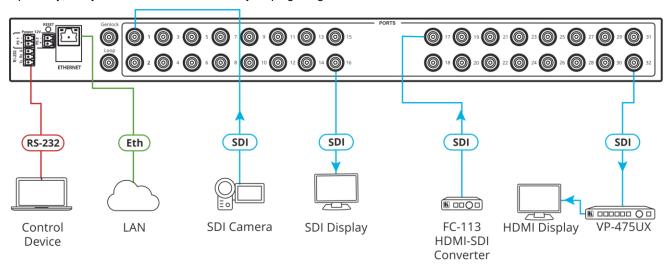
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Step 4: Connect the inputs and outputs

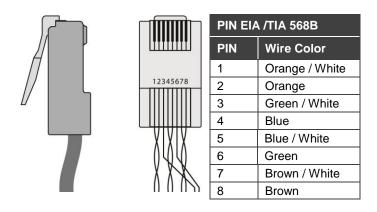
Each **ASPEN-32UFX** port can be defined as an input or an output, enabling flexible configurations such as 1x31distribution amplifiers, 31x1 routers or any other possible input-output combination. By default, the **ASPEN-32UFX** is set to operate as a 16x16 router: PORT 1 to PORT 16 as the inputs, and PORT 17 to PORT 32 as the outputs.

Always switch OFF the power on each device before connecting it to your ASPEN-32UFX.

Optionally, daisy-chain the ASPEN-32UFX by looping the genlock source to the next machine.



RJ-45 Pinout:



Step 5: Connect the power

Connect the 12V DC power supply to **ASPEN-32UFX** and plug it into the mains electricity. You can add a second power supply (not supplied in the package) for backup.

Safety Instructions



Caution: There are no operator serviceable parts inside the unit.

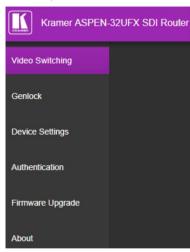
Warning: Use only the Kramer Electronics power supply that is provided with the unit. **Warning:** Disconnect the power and unplug the unit from the wall before installing.

See www.KramerAV.com for updated safety information.

Step 6: Control ASPEN-32UFX

Web Pages:

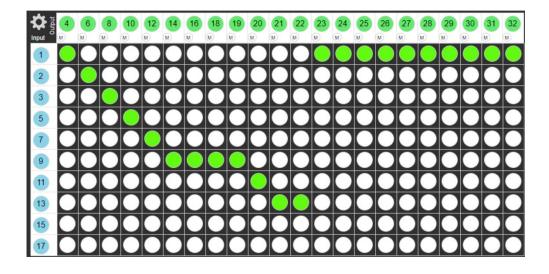
RS-232 and Ethernet:



| RS-232 | | | | | | |
|--|---|--|-----|-----------|--|--|
| Protocol 3000 | otocol 3000 | | | | | |
| Baud Rate: | 115,200 | Stop Bits: | | 1 | | |
| Data Bits: | 8 | Parity: | | None | | |
| Command format example (define port 1 as an input port): | | #PORT-DIRECTION 1,IN ~01@PORT-DIRECTION 1,IN | | | | |
| TCP/IP Parameters | | | | | | |
| IP Address: | 192.168.1.39 | UDP Port #: | | 50000 | | |
| Subnet mask: | 255.255.0.000 | Maximum UDP Connections | s: | 20 | | |
| Default gateway: | 192.168.0.1 | TCP Port #: | | 5000 | | |
| | | Maximum TCP Connections | s: | Unlimited | | |
| Full Factory Rese | Full Factory Reset | | | | | |
| Web Page: | Device Settings Web page. | | | | | |
| Protocol 3000: | Use "Factory" command: #FACTORY <cr></cr> | | | | | |
| Rear panel RESET button: | Press RESET for 5 seconds while the machine is on. The device automatically resets and powers up again, loading factory default values. | | | | | |
| Authentication | | | | | | |
| User: | Admin | Password: | Adm | in | | |

Configure the ports via the Video Switching Web page:

- 1. Define each port as an input or output by clicking a port number.
- 2. Toggle Mute (M) on each output.
- 3. Click a white button in the matrix to switch an input to an output.
- = current input to output routing state
 = optional input to output routing



Technical Specifications

| Ports | 32 12G HD-SDI/HD-SDI/SDI Video | 75Ω on BNC connectors (by default, 1 to 16 are set as inputs and 17 to 32 are set as outputs) | |
|---------------------------------|--------------------------------------|--|--|
| | 1 Genlock | 75Ω on a BNC connector | |
| | 1 Genlock Loop | Passive loop output on a BNC connector | |
| SMPTE Standards | 12G-SDI | SMPTE ST-2082-1 | |
| | 3G HD-SDI | SMPTE 424M | |
| | HD-SDI | SMPTE 292M | |
| | SDI | SMPTE 259M/344M | |
| Video | Max Resolution | 4K@60Hz (4:2:2) | |
| | Max Bandwidth | 12Gbps | |
| Controls | Remote | RS-232 | |
| | | Ethernet | |
| | | Web pages | |
| Reach | SD Signals | Up to 300m | |
| | HD Signals | For 1.5GHz, up to 200m | |
| | | For 3GHz, up to 100m | |
| | | For 6GHz, up to 100m | |
| | UHD Signals | For 12GHz, up to 80m | |
| Coupling | DC | | |
| Power | Consumption | 12V DC, 2A | |
| | Source | 12V DC, 5A | |
| Environmental Conditions | Operating Temperature | 0° to +40°C (32° to 104°F) | |
| | Storage Temperature | -40° to +70°C (-40° to 158°F) | |
| | Humidity | 10% to 90%, RHL non-condensing | |
| Regulatory Compliance | Safety | CE | |
| | Environmental | RoHs, WEEE | |
| Enclosure | Size | 19", 1U | |
| | Туре | Aluminum | |
| | Cooling | Fan ventilation | |
| General | Net Dimensions (W, D, H) | 43.64cm x 10cm x 4.36cm (17.18" x 4" x 1.72") | |
| | Shipping Dimensions (W, D, H) | 55cm x 27.6cm x 10.7cm (21.7" x 10.87" x 4.21") | |
| | Net Weight | 1kg (2.2lbs) | |
| | Shipping Weight | 1.9kg (4.2lbs) approx. | |
| Accessories | Included | Power cord | |
| Specifications are subject to | change without notice at www.kramera | av.com | |