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VS-8UFX Quick Start Guide

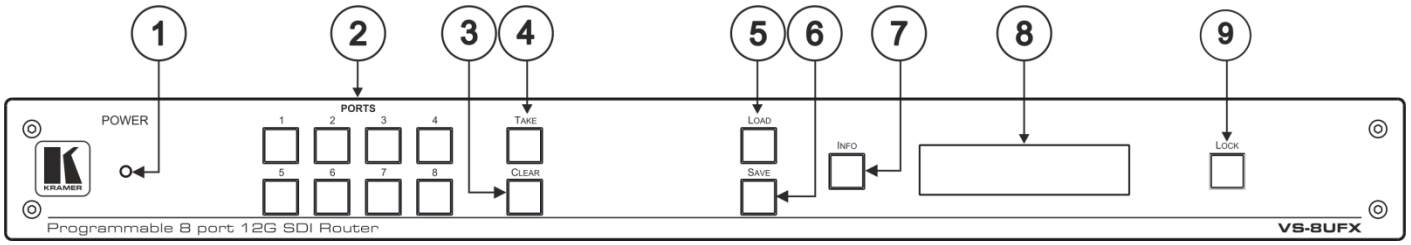
This guide helps you install and use your **VS-8UFX** for the first time.

Go to **www.kramerav.com/downloads/VS-8UFX** to download the latest user manual and check if firmware upgrades are available.

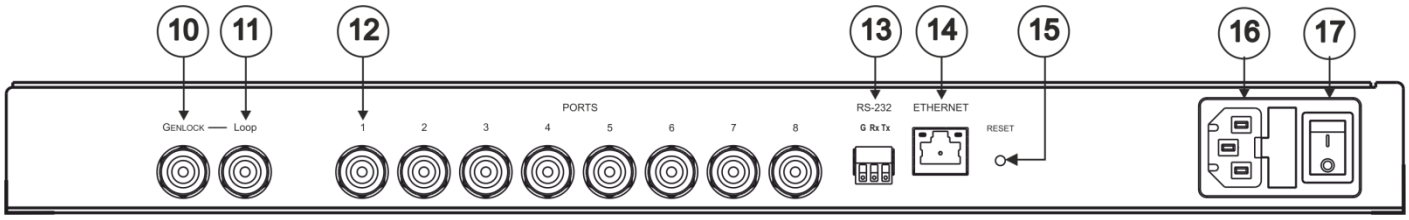
Step 1: Check what's in the box

- ☑ **VS-8UFX** Programmable 8 port 12G SDI Router
- ☑ 1 Power cord
- ☑ 1 Set of rack ears
- ☑ 4 Rubber feet
- ☑ 1 Quick start guide

Step 2: Get to know your VS-8UFX



#	Feature	Function
1	POWER LED	Illuminates when the device is powered.
2	PORT Buttons	Press an output port (lights green) and then an input port (lights blue) to route an input to an output.
3	CLEAR Button	Press to clear a selection.
4	TAKE Button	Press to enter Take mode. In Take mode, press several sets of output-input ports and then press TAKE to activate all the selected routings at the same time. When Take mode is off, each output-input pair is switched immediately.
5	LOAD Button	To load a preset configuration: Press LOAD, press the appropriate PORT preset button to select a preset configuration, and then press TAKE to load that preset.
6	SAVE Button	To save the current port configuration to a PORT preset button: Press SAVE, press the port button to which you want to save the configuration, and then press TAKE to save the setup to that port.
7	INFO Button	Press to display general information, such as the firmware version and IP address. Press INFO and then a specific PORT button to display the information of that selected port.
8	LCD Display Panel	Displays the current routing status, device information and so on.
9	LOCK Button	Press for 3 seconds (approx.) to lock the front panel buttons. When locked (button is lit), press again for 3 seconds (approx.) to unlock the front panel buttons.

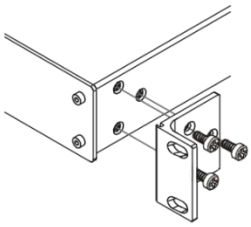


#	Feature	Function
10	GENLOCK BNC Connector	Connect to the GENLOCK source.
11	LOOP BNC Connector	Connect to the GENLOCK connector of the next unit in the daisy chain.
12	PORTS BNC Connectors (8)	Connect to SDI sources and acceptors.
13	RS-232 (G,Rx,Tx) Terminal Block Connector	Connect to a PC or remote controller.
14	ETHERNET RJ-45 Connector	Connect to a PC via LAN and also use for firmware upgrade.
15	RESET Button	Press briefly to restart the system. Press for 10 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: 255.255.0.0; Gateway 192.168.0.1.
16	Power Socket	AC connector enabling power supply to the **VS-8UFX**.
17	Power Switch	Switch for turning the unit ON and OFF.

Step 3: Install VS-8UFX

Install **VS-8UFX** 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.

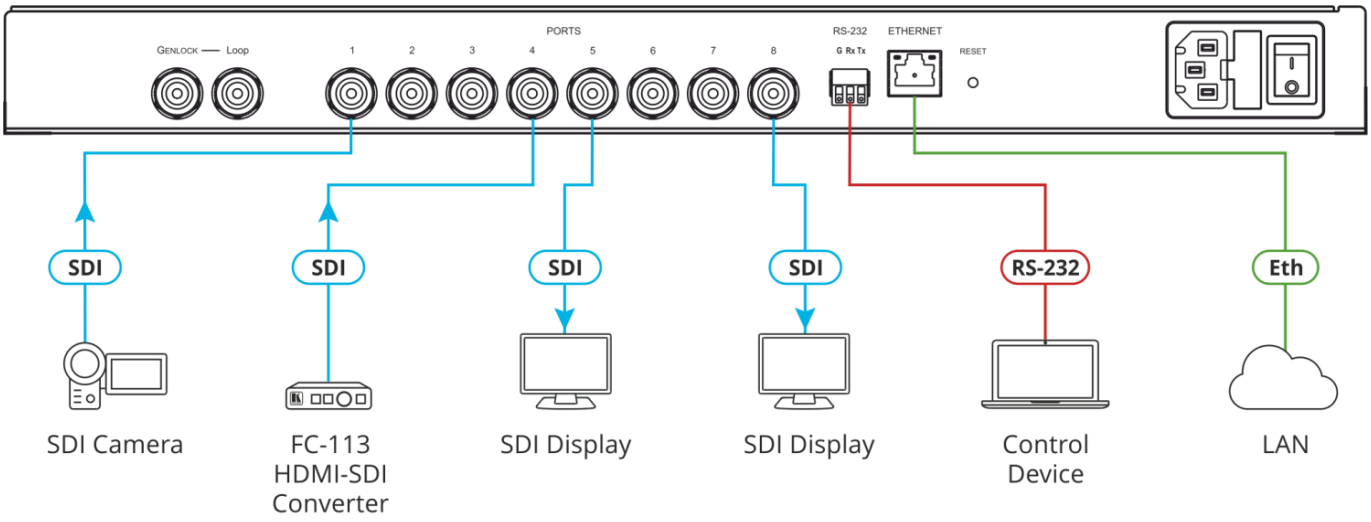


Step 4: Connect the inputs and outputs

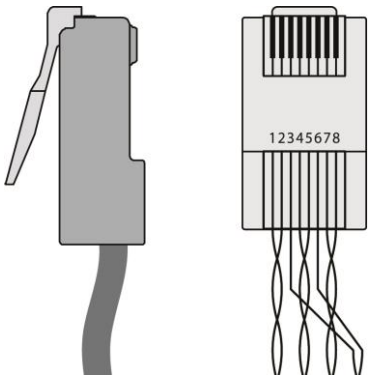
Each **VS-8UFX** port can be defined as an input or an output, enabling flexible configurations such as 1x7 distribution amplifiers, 7x1 routers or any other possible input-output combination. By default, the **VS-8UFX** is set to operate as a 4x4 router: PORT 1 to PORT 4 as the inputs and PORT 5 to PORT 8 as the outputs.

Always switch OFF the power on each device before connecting it to your **VS-8UFX**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VS-8UFX**.

Optionally, daisy-chain the **VS-8UFX** by looping the genlock source to the next machine.



RJ-45 Pinout:



PIN EIA /TIA 568B	
PIN	**Wire Color**
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

Step 5: Connect the power

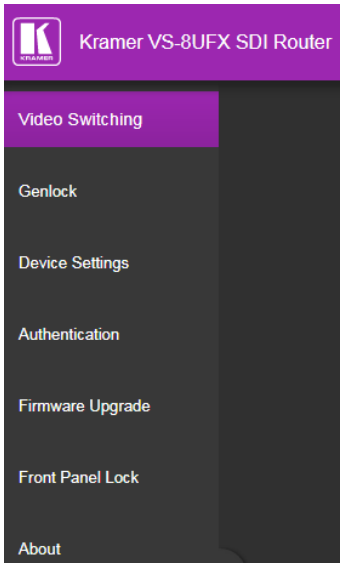
Connect AC power to the rear of the **VS-8UFX**, switch on its power and then switch on the power on each device.

Safety Instructions

Caution: There are no operator serviceable parts inside the unit.
Warning: Use only the power cord that is supplied with the unit.
Warning: Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
Warning: Disconnect the power and unplug the unit from the wall before installing.
See www.KramerAV.com for updated safety information.

Step 6: Control the VS-8UFX via the front panel buttons and via the:

Web Pages:



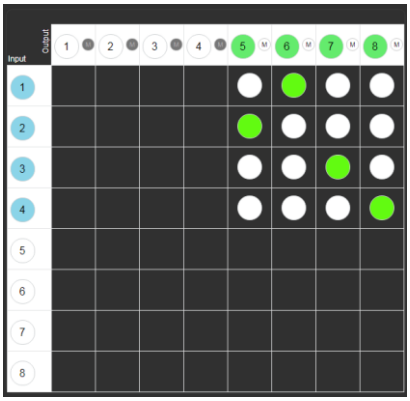
RS-232 and Ethernet:

RS-232			
Protocol 3000			
Baud Rate:	115,200	Stop Bits:	1
Data Bits:	8	Parity:	None
Command format example (define port 6 as an output port):		#PORT-DIRECTION 1,IN ~01@PORT-DIRECTION 1,IN	
TCP/IP Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet Mask:	255.255.0.0	Maximum UDP Connections:	20
Default Gateway:	192.168.0.1	Maximum TCP Connections:	Unlimited
TCP Port #:	5000		
Full Factory Reset			
Web Page:	Device Settings Web page.		
Protocol 3000:	#FACTORY<CR>		
Rear Panel RESET Button:	Press RESET for 10 seconds while the machine is on. The device automatically resets and powers up again, loading factory default values.		

To configure the ports via the Video Switching Web page:

- Define a port as an input or output by clicking a port number.
- Toggle Mute (M) on each output.
- 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



To route an input to an output using the front panel buttons:

1. Press an output (green) PORT button.
2. Press an input (blue) PORT button.
   The selected input is swtiched to the selected output.

Technical Specifications

Ports	8 12G HD-SDI/HD-SDI/SDI video	75Ω on BNC connectors (by default, 1 to 4 are set as inputs and 5 to 8 are set as outputs)
	1 Genlock	75Ω 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
Resolutions	Maximum Resolution	4K@60Hz (4:2:2)
	Maximum Data Rate	12Gbps
Controls	Front panel	Buttons
		LCD display
		Power LED
	Remote	RS-232
		Ethernet
		Web pages
Extension Range		Up to 300m for SD signals Up to 200m for 1.5GHz HD signals Up to 100m for 3GHz HD signals Up to 100m for 6GHz HD signals Up to 80m for 12GHz UHD signals
Coupling	AC	
Power	Consumption	100-240V AC, 33VA max.
Cooling	Fan Ventilation	
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
	Type	Aluminum
General	Net Dimensions (W, D, H)	43.64cm x 18.3cm x 4.36cm (17.18" x 7.2" 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	1.7kg (3.75lbs)
	Shipping Weight	2.7kg (5.95lbs) approx.
Accessories	Included	Power cord
Specifications are subject to change without notice at www.kramerav.com		