# KRAMER

VS-34FD Quick Start Guide

This guide helps you install and use your **VS-34FD** for the first time.

Go to www.kramerav.com/downloads/VS-34FD to download the latest user manual and check if firmware upgrades are available.
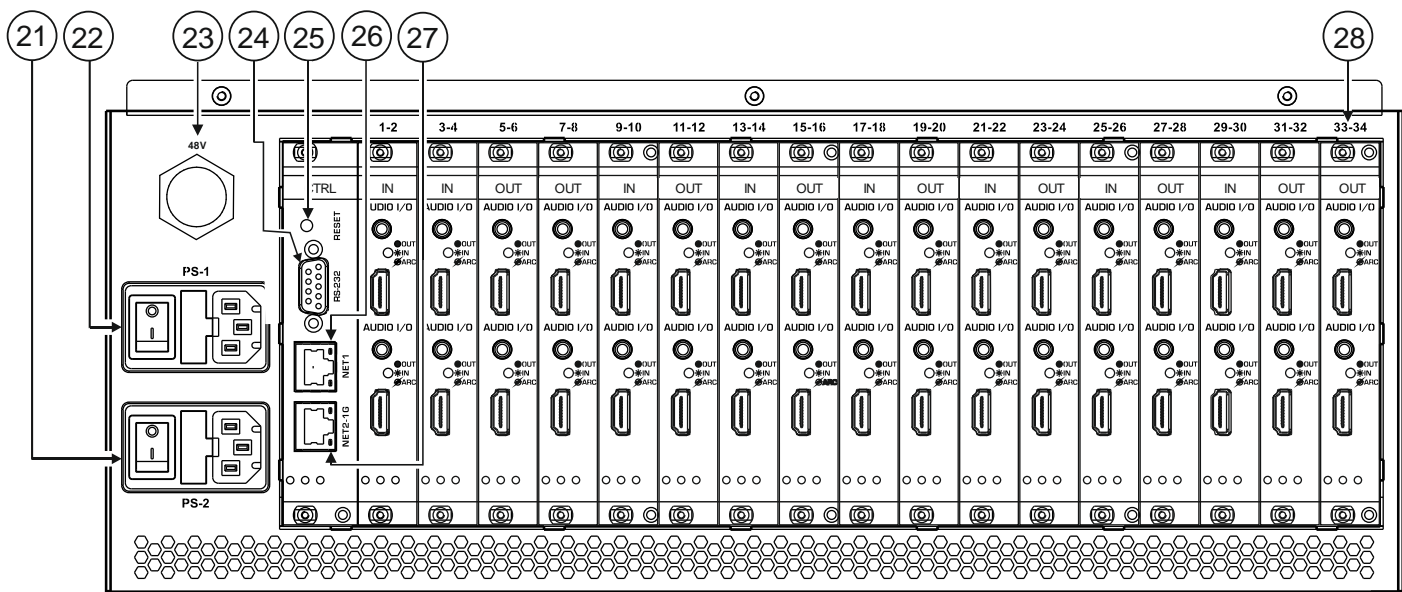
Step 1: Check what's in the box

- ☑ **VS-34FD 34 Flexible I/O Digital Matrix Switcher**
- ☑ 1 Set of rack ears (attached)
- ☑ 1 Quick start guide
- ☑ 1 Power cord

Step 2: Get to know your VS-34FD
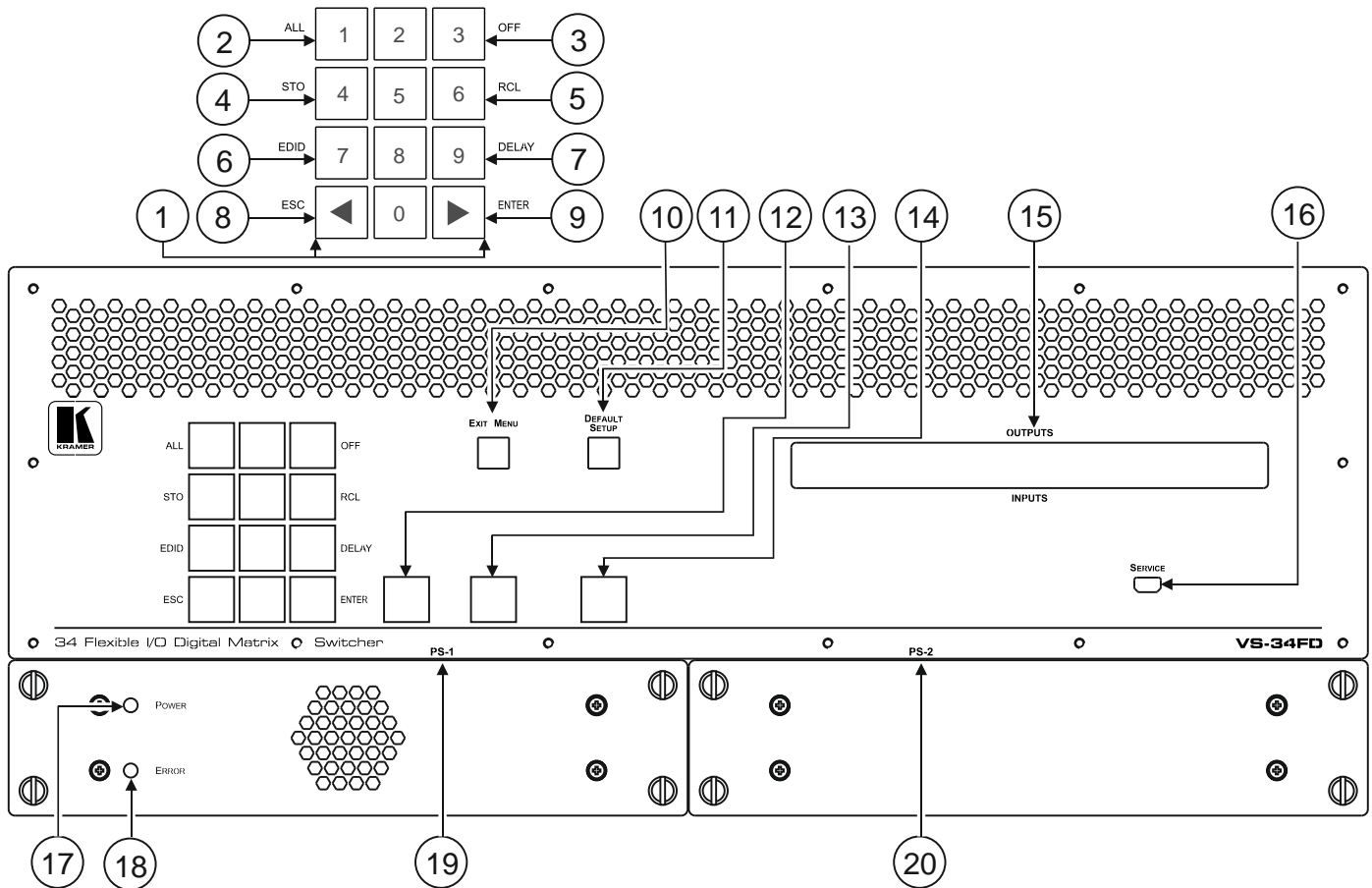
#	Feature		Function
1	keypad	Numeric	1 to 0
		◄ (Backward)	Press to shift the LCD display to the right (the LCD display only shows 11 of the available matrix combinations).
		► (Forward)	Press to shift the LCD display to the left (the LCD display only shows 11 of the available matrix combinations).
2	Double-function Selector Buttons Area	Menu Button Functions	ALL — Press to connect an input to all outputs. After pressing the MENU button, this button lights and is enabled.
3			STO — Press to store the current setup in a preset. After pressing the MENU button, this button lights and is enabled.
4			EDID — Press to assign EDID channels.
5			ESC — Press to exit the current operation.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

P/N: 2900-301348QS   Rev: 3

#	Feature		Function	
6		OFF	Press to turn off an output. After pressing the MENU button, this button lights and is enabled.	
7		RCL	Press to recall a preset. After pressing the MENU button, this button lights and is enabled.	
8		DELAY	Press to set the delay between confirming an action and the execution of the action.	
9		ENTER	Press to complete the input-output setup when using a one-digit number instead of two digits. For example, to enter input 5, you can press either 05 or 5, ENTER. Press to enter the options in a setup menu.	
10	EXIT MENU Button		Press to exit a menu or return to switching mode.	
11	DEFAULT SETUP Button		Press to open the reset menu on the display.	
12	TAKE Button		Press to confirm actions.	
13	MENU Button		Press once to enable the ALL, OFF, STO and RCL buttons. Press again to enter the configuration menu. When in a menu, press to cycle through the menu items.	
14	LOCK Button		Press and hold for approximately 2 sec to lock/unlock the front panel buttons.	
15	OUTPUTS/INPUTS LCD Display		Displays the outputs (upper row) switched to the selected inputs (lower row). Displays user interface messages and menus.	
16	SERVICE Mini USB Connector		Use for controlling the matrix switcher and for firmware upgrade via K-Upload.	
17	POWER LED		Lights yellow when the power supply is active and the device is powered on.	
18	ERROR LED		Lights red when an error is detected. Briefly lights red immediately following a power disruption (e.g., cable disconnection, power off, and so on).	
19	PS-1 Power Module		Supplies power to the device.	
20	PS-2 Power Module		Supplies power to the device.	

#	Feature	Function
21	PS-2 Power Module and Switch	Connect to the mains power supply (for the PS-1 power module) and use switch to power the unit.
22	PS-1 Power Module and Switch	Connect to the mains power supply (for the PS-2 power Module) and use switch to power the unit.

You can connect PS-1 and/or PS-2.
If one of them fails to operate, the other can power the unit.

#	Feature	Function
23	48V DC Harness Connector	Connect to the **PS-4812** PoE power supply add-on.
24	RS-232 9-pin D-sub Port	Connect to the remote operation PC or a controller.
25	RESET Recessed Button	Press to reboot the **VS-34FD** control card.
26	NET 1 RJ-45 Connector	Connect to a PC or controller via the Ethernet LAN (100Mb).
27	NET 2-1G RJ-45 Connector	Connect to a PC or controller via the Ethernet LAN (100/1000Mb).

#	Feature	Function
28	IN/OUT Connector Cards (2x17)	Insert an input or output card and connect sources/acceptors to the HDMI™ and/or AUDIO 3.5mm mini jacks to create a flexible matrix switcher (ranging from 2x32 to 32x2).
		Different card types are available.
		Each port in a card operates independently.
		Card slots support hot-plug connection, so the device immediately identifies a card as IN or OUT.
		AUDIO 3.5mm mini jacks can be set as inputs or outputs (the output is the HDMI audio embedded audio) when a source/acceptor is connected.
		The port numbers are fixed. Each card has 2 ports and they are numbered accordingly (for example, in the card located under 19-20, the top port is 19 and the lower one is 20).

Step 3: Install the VS-34FD

To rack mount the machine, attach both rack ears (by removing the screws from each side of the machine and replacing those screws through the rack ears) or place the machine on a table.

- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.
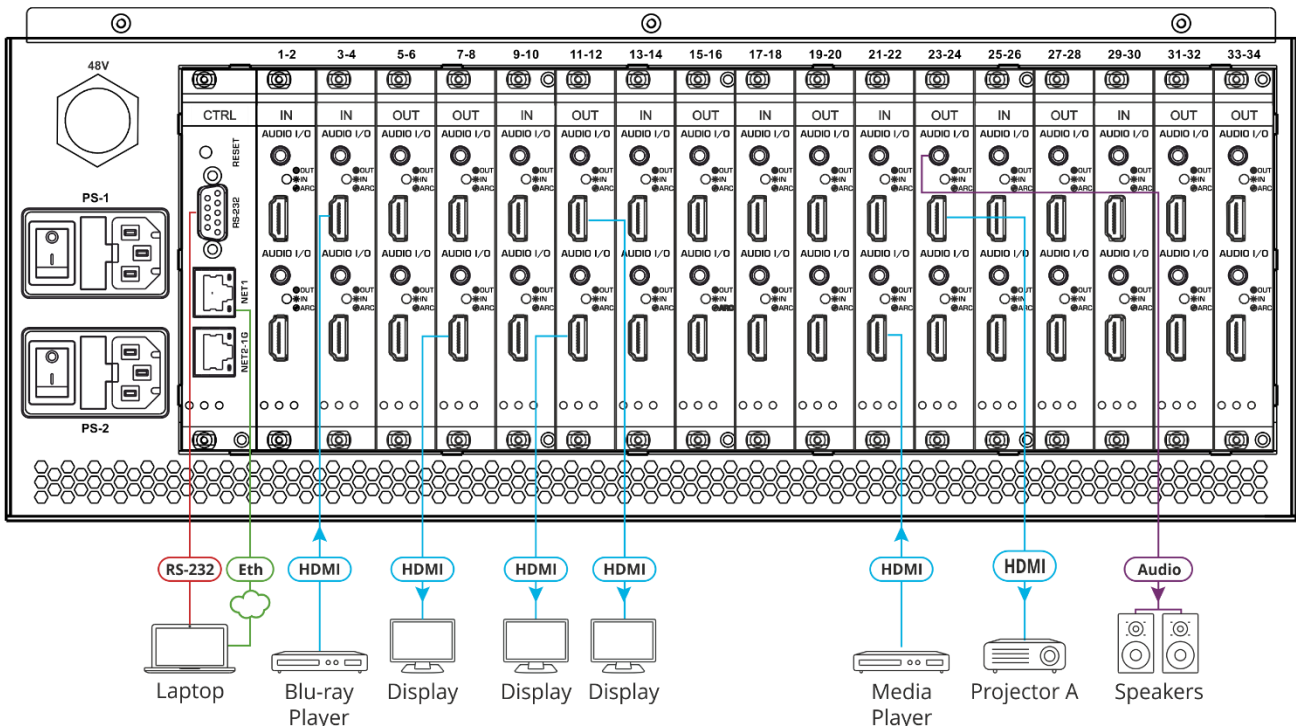
Step 4: Connect the inputs and outputs

Insert the input and output cards into the card slots and then connect the inputs and the outputs.

> You can insert IN/OUT cards into slots while the device is powered.
>
> Always switch OFF the power on each device before connecting it to your **VS-34FD**.

> For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/VS-34FD.
>
> Using third-party cables may cause damage!

Step 5: Connect the power

Connect the power cord to **VS-34FD** and plug it into the mains electricity.

⚠️ Safety Instructions (See www.kramerav.com for updated safety information)
Caution:
- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.
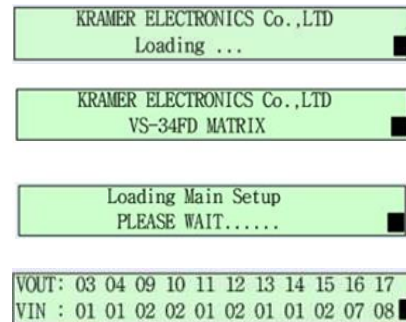
Warning:
- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.

Step 6: Set operation parameters

To operate **VS-34FD** via the front panel, use the numeric keypad.

When the unit is powered-on, the last matrix setup that was used is loaded. Use either the setup recall (records a stored configuration from a preset) or default setup recall (for quick retrieval of a commonly used programmable default setup) functions to retrieve other setups.

After switching on the power, the LCD display shows the following screens in sequence:

```
KRAMER ELECTRONICS Co.,LTD
         Loading ...          ■
```

```
KRAMER ELECTRONICS Co.,LTD
         VS-34FD MATRIX       ■
```

```
      Loading Main Setup
       PLEASE WAIT......       ■
```

```
VOUT: 03 04 09 10 11 12 13 14 15 16 17
VIN : 01 01 02 02 01 02 01 01 02 07 08■
```

Step 7: Operate the VS-34FD

Operate **VS-34FD** via:
- Front panel buttons.
- Remotely, by RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller via RS-232, USB or Ethernet port.
- Remotely, using the IR remote control transmitter.
- Embedded web pages via the Ethernet.

RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example: (Switch video input 2 to output 4): #V 2>4<CR>			
Default Ethernet Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.255.0	TCP Port #:	5000
Gateway:	192.168.0.1	Default User:	Admin
		Default Password:	Admin

Using the embedded web pages

Click the navigation pane to open the following pages:
- **Routing Settings** – Change the input to output routing.
- **Authentication** – Activate password security (default = no password).
- **EDID Management** – Copy EDIDs from outputs to inputs.
- **Settings** – Change device name and IP settings, configure card settings and upgrade card firmware, and perform factory reset.
- **Status** – Monitor operation status of cards, power supplies, and fans.
- **About** – View current FW version and manufacturer information
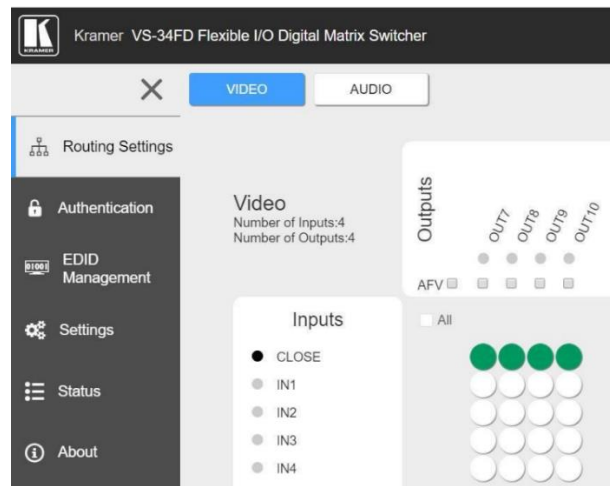
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