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VS-3232DN-EM Quick Start Guide

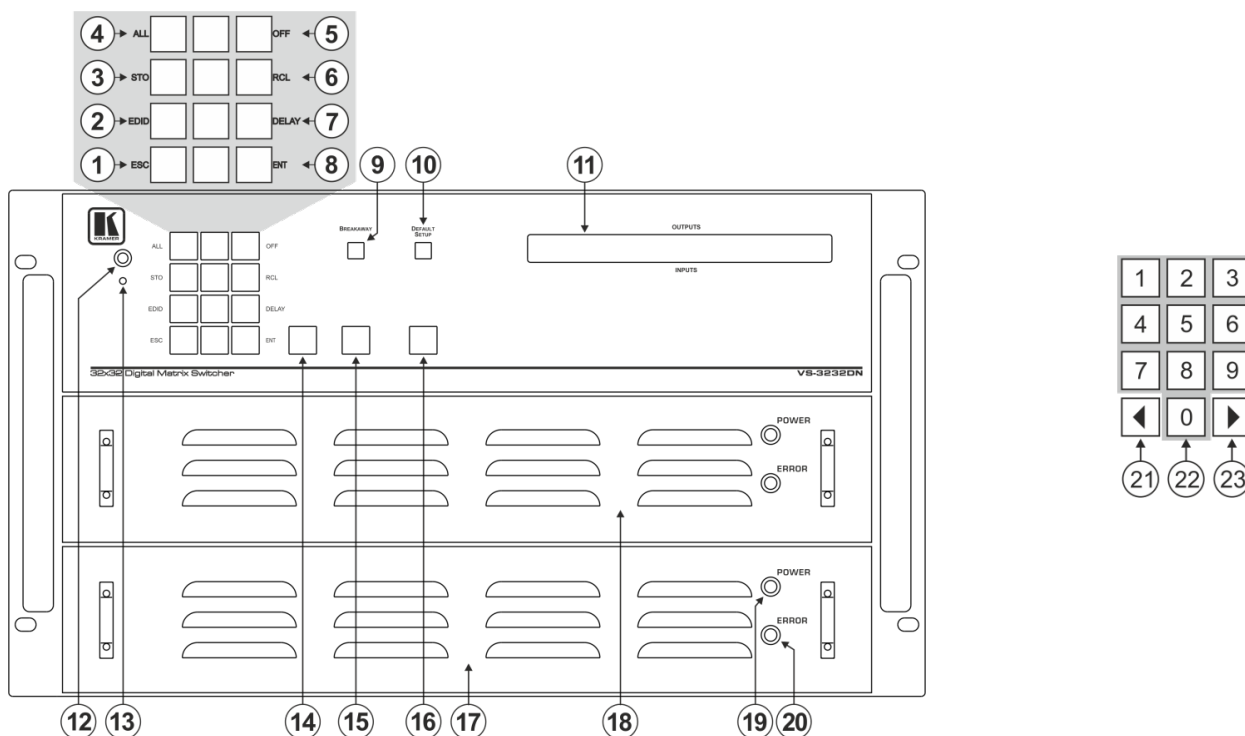
This guide helps you install and use your **VS-3232DN-EM** for the first time.

Go to www.kramerav.com/downloads/VS-3232DN-EM to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ✓ **VS-3232DN-EM** 4x4 to 32x32 Modular Multi-Format Managed Digital Matrix Switcher
- ✓ 1 Power cord
- ✓ 1 Quick start guide
- ✓ Infrared remote control transmitter with batteries (for future use)
- ✓ 1 Set of rack ears (attached)

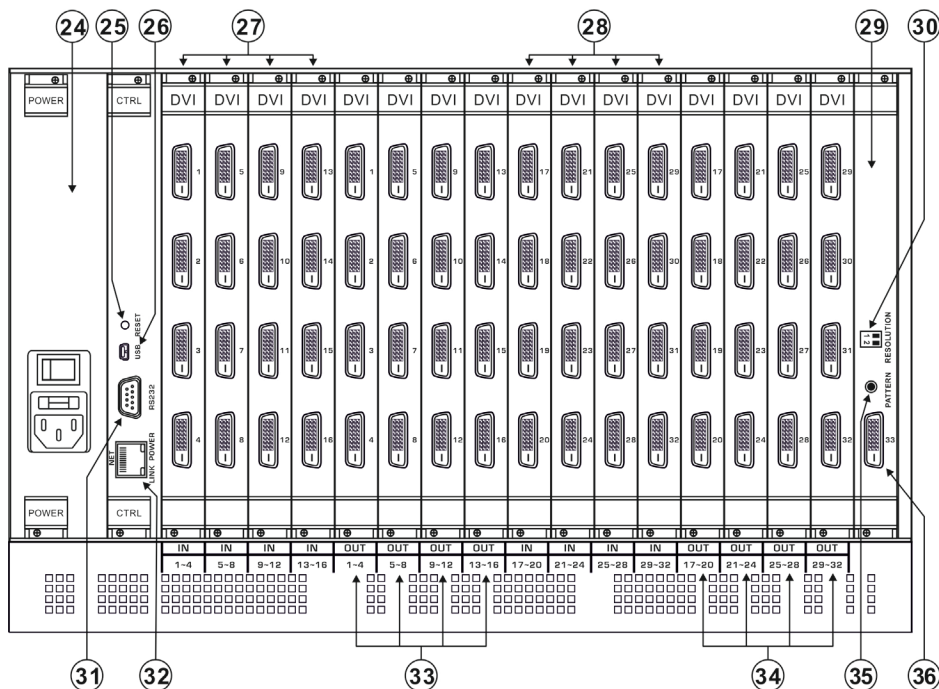
Step 2: Get to know your VS-3232DN-EM



#	Feature		Function
1	Double-function Selector Buttons Area	Menu Button Functions	ESC
2		Menu Button Functions	EDID
3		Menu Button Functions	STO
4		Menu Button Functions	ALL
5		Menu Button Functions	OFF
6		Menu Button Functions	RCL
7		Menu Button Functions	DELAY
8		Menu Button Functions	ENT
9	BREAKAWAY Button		Press to exit a menu.



#	Feature	Function
10	DEFAULT SETUP Button	Press to recall the default setup.
11	OUTPUTS/INPUTS LCD Display	Displays the outputs (upper row) switched to the selected inputs (lower row). Displays user interface messages and menus.
12	IR Receiver	Infrared remote control sensor (for future use).
13	IR LED	Lights yellow when receiving commands from the IR remote control transmitter (for future use).
14	TAKE Button	Press to confirm actions.
15	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.
16	LOCK Button	Press and hold for approximately 2 sec to lock/unlock the front panel buttons.
17	Power Supply	Supplies power to the device.
18		
19	POWER LED	Lights green when power supply is active and the device is powered on.
20	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).
21	◀ (Backward)	Press to shift the display right (the LCD display only shows 13 cross-points out of a total of 32).
22	1, 2, 3, 4, 5, 6, 7, 8, 9, 0	Numeric keypad, 1 to 0.
23	▶ (Forward)	Press to shift the display left (the LCD display only shows 13 cross-points out of a total of 32).



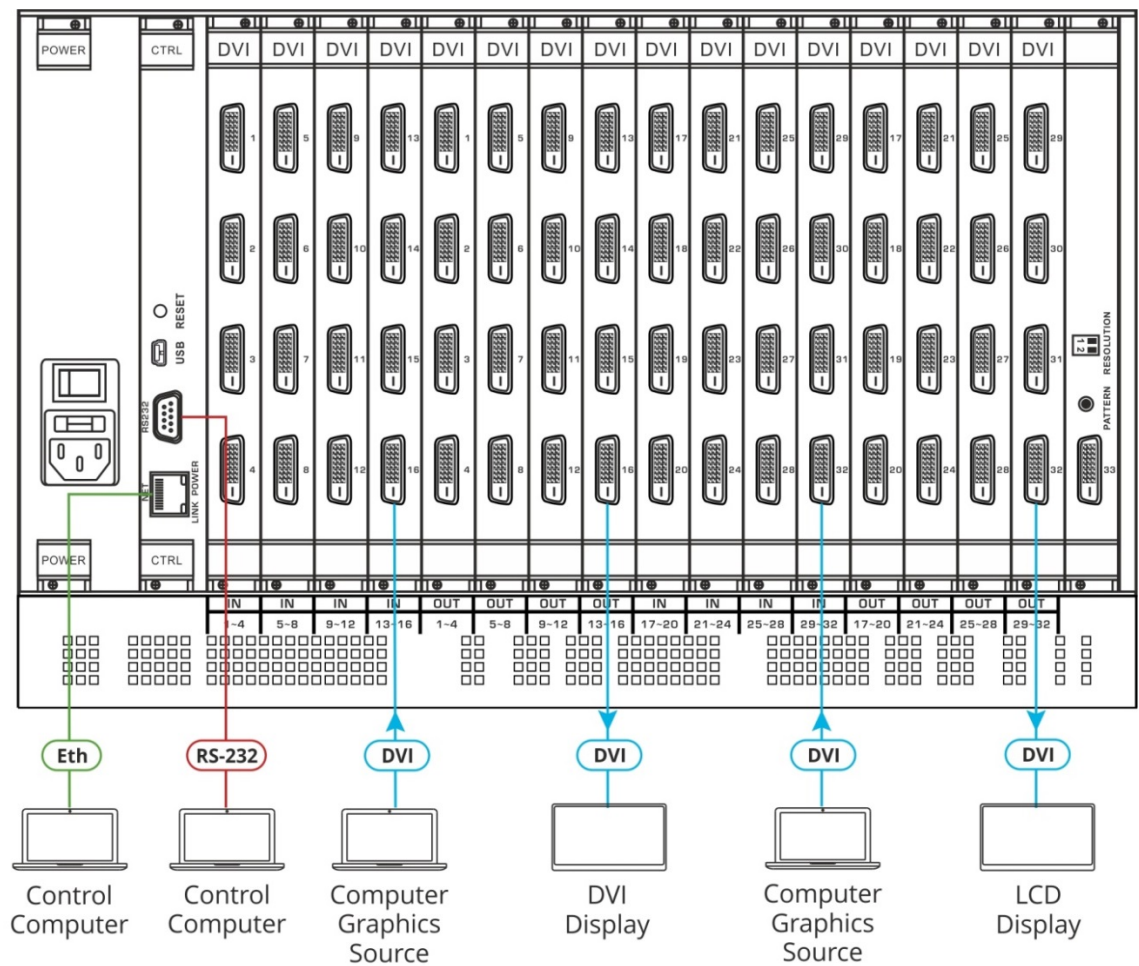
#	Feature		Function
24	AC Mains Power Module		Fuse holder and power cord socket. Connect to the AC mains supply.
25	RESET Button		Press to restart the VS-3232DN-EM .
26	USB Virtual COM Port USB Mini-B Connector		Connect to a PC or remote controller and perform firmware upgrade of the device and compatible input/output cards.
27	IN 1~16 Connectors	INPUTS	Connect to the relevant video sources, depending on the cards installed (1 to 16).
28	IN 17~32 Connectors		Connect to the relevant video sources, depending on the cards installed (7 to 32).
29	TEST Module		Signal generator module for testing video outputs.
30	RESOLUTION DIP-switches		Set the resolution for video generated by the Test module.
31	RS-232 9-pin D-sub Port		Connects to the remote operation PC or remote controller and perform firmware upgrade of the device and compatible input/output cards.
32	NET Ethernet RJ-45 Connector		Connect to a PC or controller via the Ethernet LAN and perform firmware upgrade of the device and compatible input/output cards. The LINK LED flashes when communication is active. The POWER LED lights when the interface receives power.
33	OUT 1~16 Connectors	OUTPUTS	Connect to the relevant video acceptors, depending on the cards installed (1 to 16).
34	OUT 17~32 Connectors		Connect to the relevant video acceptors, depending on the cards installed (17 to 32).
35	PATTERN Button		Press the button repeatedly to change the video pattern generated by the Test module.
36	Test Module DVI Molex 24-pin Video Connector		Connect to one of the relevant video inputs/outputs to aid in troubleshooting.

Step 3: Install the VS-3232DN-EM

To rack mount the machine, the **VS-3232DN-EM** is pre-assembled with ear brackets attached.

Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VS-3232DN-EM**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VS-3232DN-EM**.



Port Numbering:

All cards (except DVI dual link cards) have four physical ports.

Numbering of ports is sequential from top to bottom and left to right.

Each DVI dual link card provides two physical ports which causes the loss of two numbers in the numbering sequence of that card only.

Note: the maximum number of ports may vary.

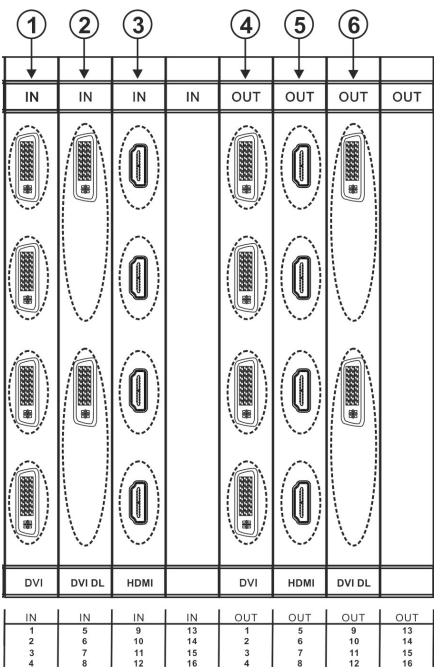



Diagram #	Actual Port #
1	IN 1, IN 2, IN 3, IN 4
2	IN 5, IN 6
3	IN 9, IN 10, IN 11, IN 12
4	OUT 1, OUT 2, OUT 3, OUT 4
5	OUT 5, OUT 6, OUT 7, OUT 8
6	OUT 9, OUT 10

Note: There is no IN 7, IN 8, OUT 11 or OUT 12 because these slots contain DVI dual link cards.

Step 5: Connect the power

Connect the AC power cord to the rear of the **VS-3232DN-EM**, switch on its power and then switch on the power of connected devices.



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: Set operation parameters

The **VS-3232DN-EM** does not have separate output and input buttons. Instead, the front panel includes a numeric keypad.

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

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.

The LCD display can show only 13 out of the 32 available matrix combinations at once. To view any of the matrix combinations use the ◀ or the ▶ buttons on the front panel to shift the display to the right or left.

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32 SERIES MATRIX

Load Main Setup

01 02 03 04 05 06 07 08 09 10 11 12 13
01 02 03 04 05 06 07 08 09 10 11 12 13

Step 7: Operate via the front panel buttons, remote control, and via the:

RS-232	
Protocol 3000	
Baud Rate:	115200
Data Bits:	8
Stop Bits:	1
Parity:	None
Command Format:	HEX
P3000, to switch Input 4 to Output 2:	#VID 4>2
Ethernet	
IP Address:	192.168.1.39
TCP Port #:	5000
UDP Port #:	50000
Concurrent TCP Connections:	32
Full Factory Reset	
Front Panel:	Press MENU twice. Select Total Matrix Reset > Factory default. Press TAKE twice.
EDID	
EDID data is passed between Output 1 and Input 1	