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## VS-6464DN-EM Quick Start Guide

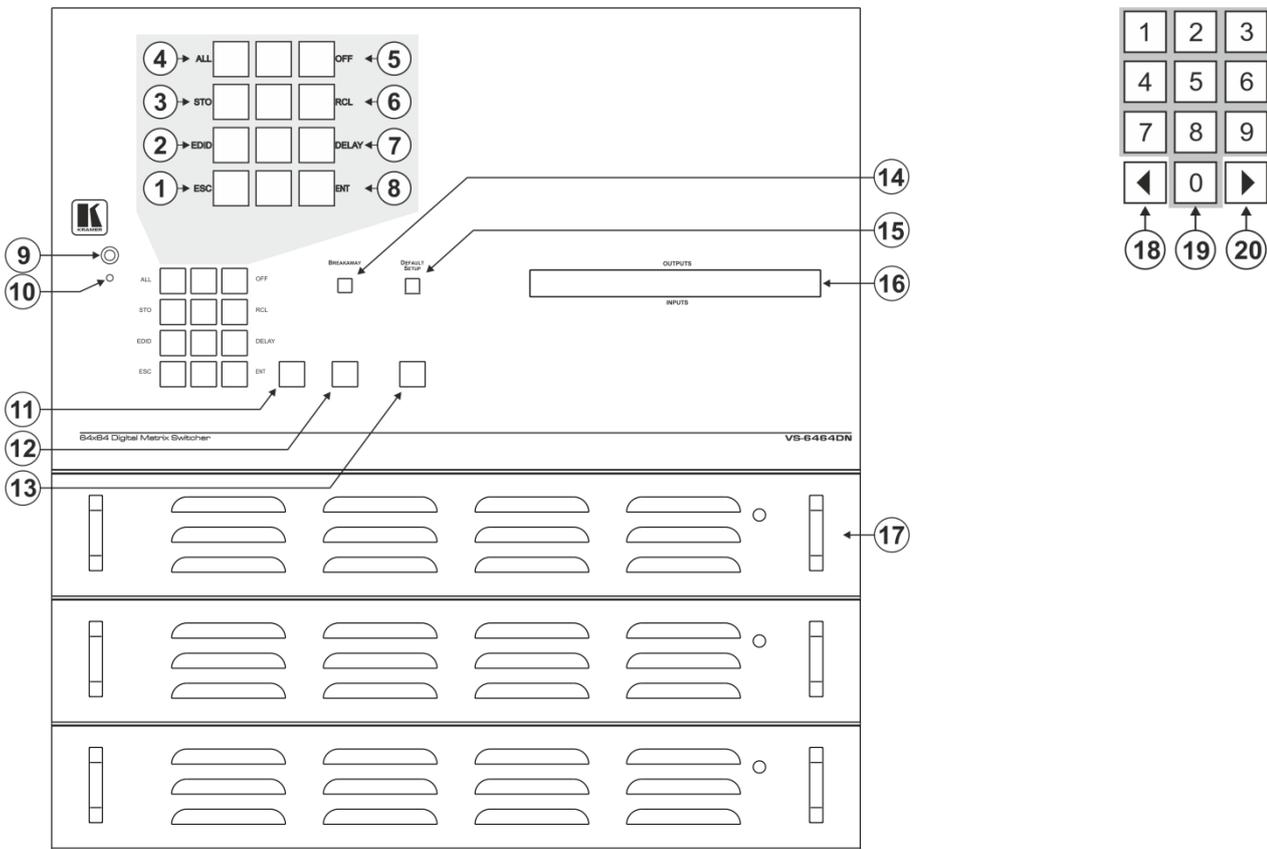
This guide helps you install and use your VS-6464DN-EM for the first time.

Go to [www.kramerav.com/downloads/VS-6464DN-EM](http://www.kramerav.com/downloads/VS-6464DN-EM) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

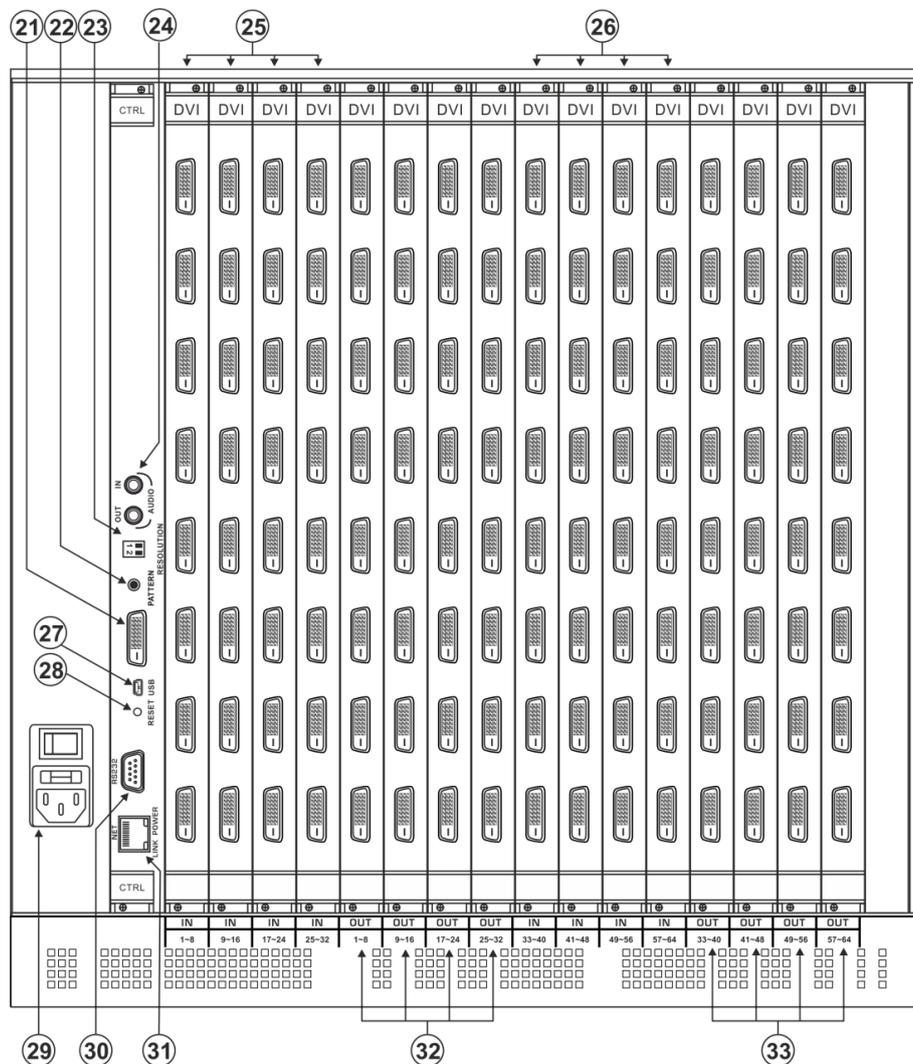
- ✓ VS-6464DN-EM 8x8 to 64x64 Modular Multi-Format Managed Digital Matrix Switcher
- ✓ 1 Power cord
- ✓ 1 Quick start guide
- ✓ Infrared remote control transmitter with batteries (for future use)
- ✓ 1 Set of rack ears (attached)

### Step 2: Get to know your VS-6464DN-EM



#	Feature	Function
1	Double-function Selector Buttons Area	<i>ESC</i> Press to exit the current operation.
2		<i>EDID</i> Press to assign EDID channels.
3		<i>STO</i> Press to store the current setup in a preset. After pressing the MENU button, this button lights and is enabled.
4		<i>ALL</i> Press to connect an input to all outputs. After pressing the MENU button, this button lights and is enabled.
5		<i>OFF</i> Press to turn off an output. After pressing the MENU button, this button lights and is enabled.
6		<i>RCL</i> Press to recall a preset. After pressing the MENU button, this button lights and is enabled.
7		<i>DELAY</i> Press to set the delay between confirming an action and the execution of the action.
8		<i>ENT</i> 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, ENT. Press to enter the options in a setup menu.

#	Feature	Function
9	IR Receiver	Infrared remote control sensor (for future use).
10	IR LED	Lights yellow when receiving commands from the IR remote control transmitter (for future use).
11	<i>TAKE</i> Button	Press to confirm actions.
12	<i>MENU</i> 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.
13	<i>LOCK</i> Button	Press and hold for approximately 2 sec to lock/unlock the front panel buttons.
14	<i>BREAKAWAY</i> Button	Press to exit a menu.
15	<i>DEFAULT SETUP</i> Button	Press to recall the default setup.
16	<i>OUTPUTS/INPUTS</i> LCD Display	Displays the outputs (upper row) switched to the selected inputs (lower row). Displays user interface messages and menus.
17	Power Supplies	Supply power to the device. The unit includes two power supplies. A third one can be installed.
18	◀ (Backward)	Press to shift the sliding window to the right (the LCD display only shows 13 cross-points out of a total of 16).
19	1, 2, 3, 4, 5, 6, 7, 8, 9, 0	Numeric keypad, 1 to 0.
20	▶ (Forward)	Press to shift the sliding window to the left (the LCD display only shows 13 cross-points out of a total of 16).



#	Feature	Function
21	Video Generator Output Connector	Connect to one of the relevant video inputs to aid in troubleshooting.
22	<i>PATTERN</i> Button	Press the button repeatedly to change the video pattern generated by the video generator.
23	<i>RESOLUTION</i> DIP-switches	Set the resolution for video patterns generated by the video generator.
24	<i>AUDIO OUT / IN</i> 3.5mm Mini Jacks	Connect an audio source and speakers for testing the unit.
25	<i>IN 1~32</i> Connectors	Connect to the relevant video sources, depending on the cards installed (1 to 32).
26	<i>IN 33~64</i> Connectors	Connect to the relevant video sources, depending on the cards installed (33 to 64).
27	<i>USB</i> 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.

#	Feature	Function
28	RESET Button	For future use.
29	AC Mains Power Module	Connect to the power cord and mains electricity. The fuse protects the unit and the switch is for turning the unit on and off.
30	RS-232 9-pin D-sub Port	Connect to a PC or remote controller and perform firmware upgrade of the device and compatible input/output cards.
31	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 <i>LINK</i> LED flashes when communication is active. <i>POWER</i> LED lights when the interface receives power.
32	OUT 1~32 Connectors	Connect to the relevant video acceptors, depending on the cards installed (1 to 32).
33	OUT 33~64 Connectors	Connect to the relevant video acceptors, depending on the cards installed (33 to 64).

### Step 3: Install the VS-6464DN-EM

To rack mount the machine, the **VS-6464DN-EM** is pre-assembled with ear brackets attached to the machine.

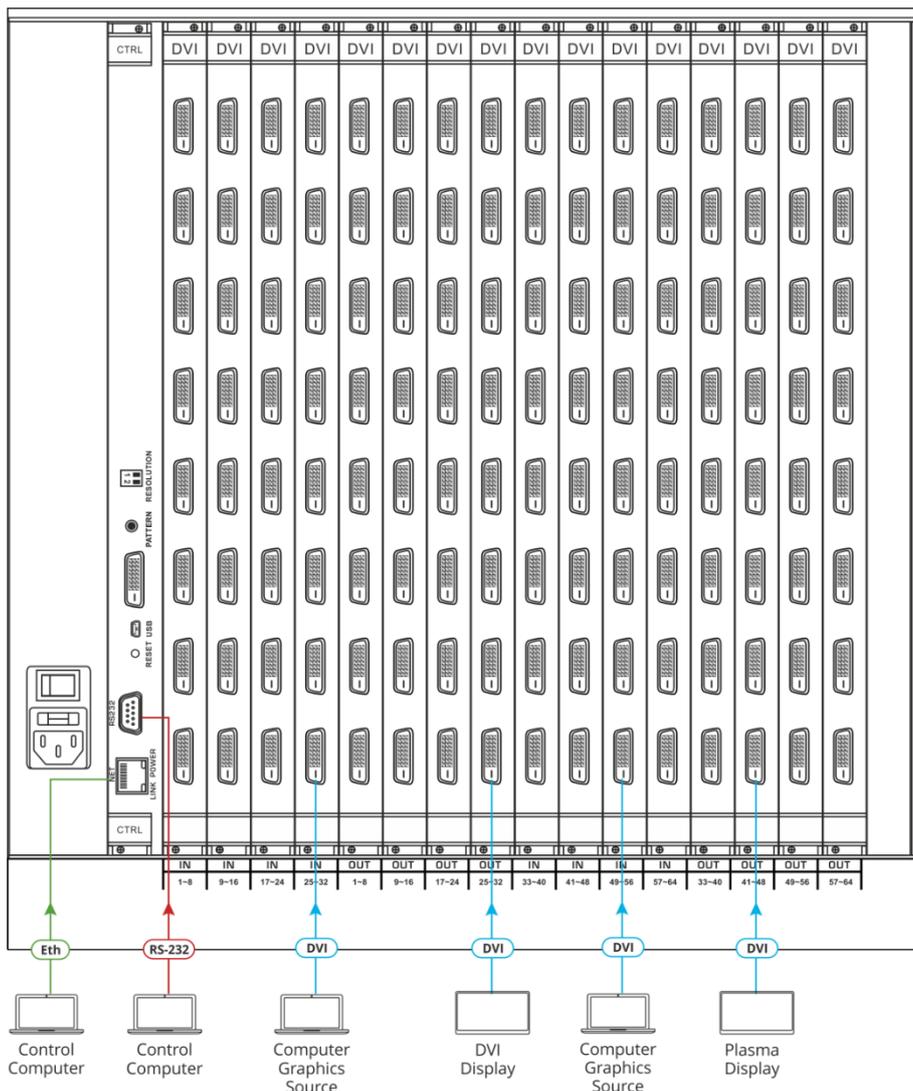


- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment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

### Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VS-6464DN-EM**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VS-6464DN-EM**.

**Note:** the maximum number of ports may vary.



### Port Numbering:

On each card there are eight physical ports numbered sequentially from top to bottom and left to right.

**Note:** The diagram below is a sample numbering showing only the bottom of each card.

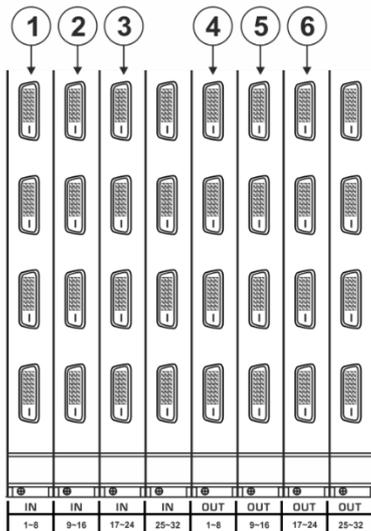


Diagram #	Actual Port #
1	IN 1 – IN 8
2	IN 9 – IN 16
3	IN 17 – IN 24
4	OUT 1 – OUT 8
5	OUT 9 – OUT 16
6	OUT 17 – OUT 24

## Step 5: Connect the power

Connect the power cord to VS-6464DN-EM and plug it into the mains electricity. Switch the **VS-6464DN-EM** power and then switch on the power of connected devices.

Safety Instructions (See [www.kramerav.com](http://www.kramerav.com) for updated safety information)



**Caution:**

- For products with relay terminals and GPIO 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.

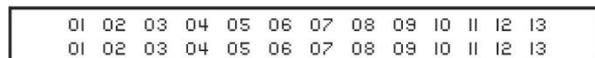
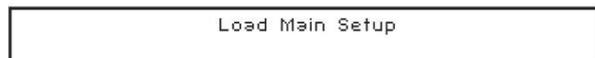
## Step 6: Set operation parameters

**VS-6464DN-EM** includes a front panel numeric keypad for routing and control.

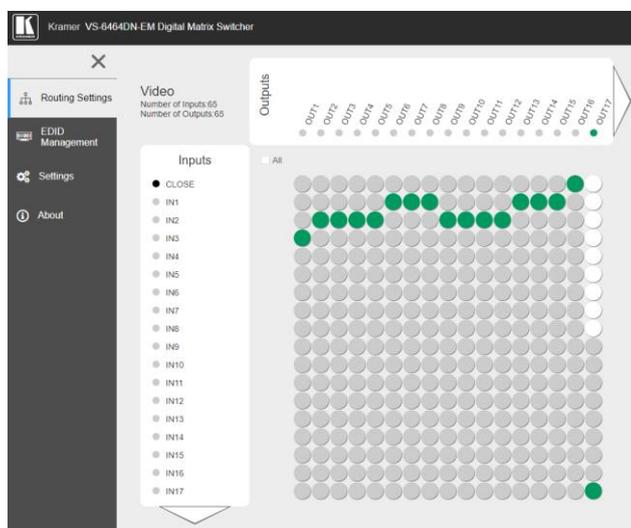
On power up, the last used matrix setup is loaded. To retrieve other setups, use setup recall for a stored configuration or default setup recall.

The LCD display can show only 13 out of the 64 available matrix combinations at once. To view any of the matrix combinations use the ◀ or the ▶ buttons.

On power up, the display shows the following screens in sequence:



## Step 7: Operate via front panel buttons, RS-232, or web pages via Ethernet



RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	HEX
Stop Bits:	1		
Example: (Switch video input 4 to output 2): #VID 4>2			
Default Ethernet Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.255.0	TCP Port #:	5000
Default User:	Admin	Default Password:	Admin
	Concurrent TCP Connections:		32
<b>Full Factory Reset</b>	Press front panel MENU button twice. Select Total Matrix Reset > Factory Reset. Press TAKE twice.		