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## VM-4UX Quick Start Guide

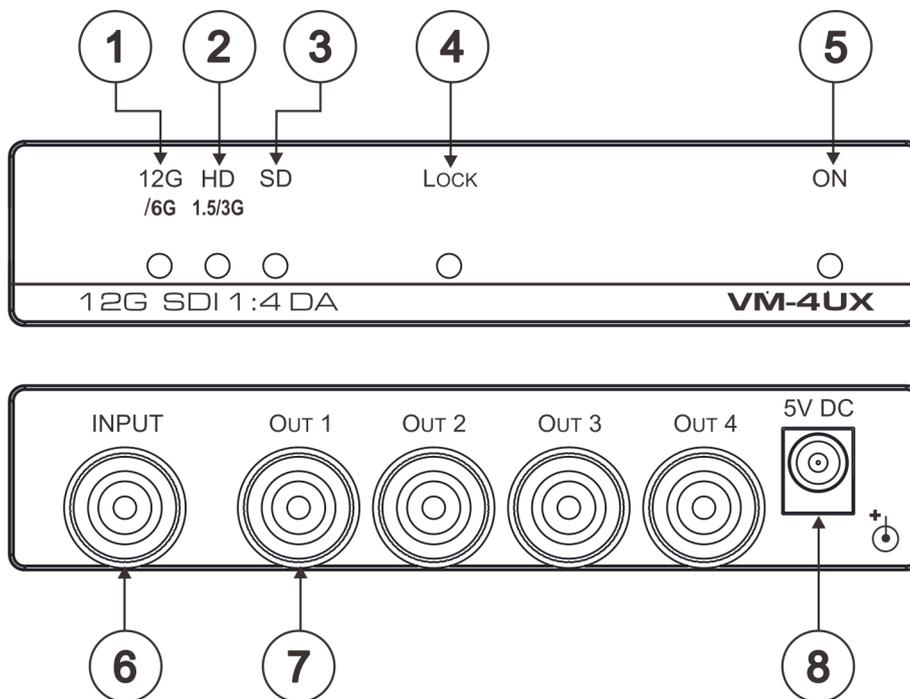
This guide helps you install and use your **VM-4UX** for the first time.

Go to [www.kramerav.com/downloads/VM-4UX](http://www.kramerav.com/downloads/VM-4UX) to download the latest user manual and check if firmware upgrades are available.

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

- ✓ **VM-4UX** 12G SDI 1:4 DA
- ✓ 4 Rubber feet
- ✓ 1 Power supply (5V DC)
- ✓ 1 Quick start guide
- ✓ TOOL Mounting bracket kit
- ✓ 2 male terminators (1 per pair)

### Step 2: Get to know your VM-4UX



#	Feature	Function
1	12G/6G LED (Blue)	Lights when the SDI signal is 12G or 6G 12G means a 2160p60 progressive video format and 6G means a 2160p30 progressive video format
2	HD 1.5/3G LED (Yellow)	Lights when the SDI signal is HD 1.5 or 3G High Definition (HD) 1.5G means a 720p progressive or 1080i interlaced video format and 3G means 1080p progressive video format
3	SD LED (Red)	Lights when the SDI signal is SD Standard Definition (SD) means an NTSC or PAL compatible video format, consisting of 480i or 480p (for NTSC), or 576i or 576p (for PAL) of interlaced or progressive video format
4	LOCK LED (Green)	Lights when the <b>VM-4UX</b> has detected the input signal and was able to lock on that signal
5	ON LED (Green)	Lights when receiving power
6	INPUT BNC connector	Connect to the SDI source
7	OUT BNC connectors	Connect to the SDI acceptors (from 1 to 4) OUT 1 + OUT 2 and OUT 3 + OUT 4 are both paired outputs
8	5V DC	+5V DC connector for powering the unit

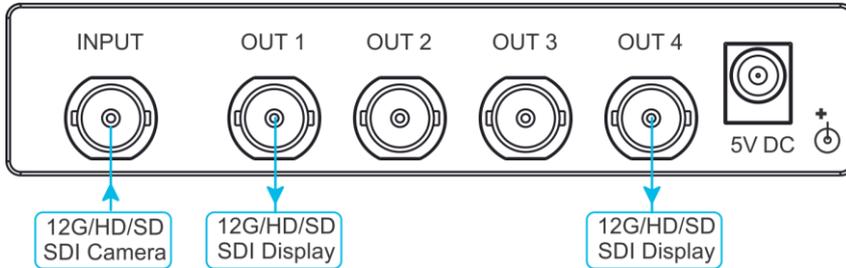
### Step 3: Install the VM-4UX

To mount the **VM-4UX** in a rack, use an **RK-3T** rack adapter. Alternatively, attach the rubber feet to the underside of the **VM-4UX** and place it on a table.

A Kramer TOOLS™ can also be mounted on a desk top, wall or similar area. Fasten a bracket on each side of the TOOLS using the two M3x8 screws (supplied). Use the flat-head screws (supplied) to fix the TOOLS to the mounting surface or enable it to slide in place.

### Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VM-4UX**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VM-4UX**.



For best results, when only one of the paired outputs (OUT 1 + OUT 2 and OUT 3 + OUT 4) is connected, cover its pair connector with a 75Ω terminator (supplied).

For example, if only OUT 1 is connected, cover OUT 2 with a terminator (OUT 3 and OUT 4 do not need to be covered).

### Step 5: Technical Specifications

Input:	1 SMPTE 259M (SD-SDI), 292M (HD-SDI), 344M (ED-SDI), 424M (3G HD-SDI), ST-2081 (6G-SDI) and ST-2082 (12G-SDI) compliant serial video, 75Ω on a BNC connector
Outputs:	4 equalized and reclocked SMPTE 259M (SD-SDI), 292M (HD-SDI), 344M (ED-SDI), 424M (3G HD-SDI), ST-2081 (6G-SDI) and ST-2082 (12G-SDI), outputs 75Ω on BNC connectors
Cable Equalization Reach:	12Gbps: Up to 80m (260ft) using Kramer cables 3Gbps and 6Gbps: Up to 100m (330ft) 1.5Gbps: Up to 200m (660ft) SD: Up to 300m (980ft)
Resolution:	Up to 4K@60Hz (4:2:2) 30bpp
Maximum Data Rate (-3db):	12Gbps
Max. Output Level:	800mVpp /75Ω
Coupling:	AC
Power Consumption:	5V DC, 250mA
Power Source:	5.2V/4A
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
Dimensions:	12.0cm x 7.1cm x 2.4cm (4.7" x 2.8" x 1.0") W, D, H.
Weight:	0.18kg (0.4lbs) approx.
Shipping Dimensions:	23.2cm x 12cm x 8.9cm (9.13" x 4.7" x 3.5") W, D, H
Shipping Weight:	0.68kg (1.5lbs) approx.
Included Accessories:	Power supply, mounting bracket, 2 male BNC 75Ω terminators
Options:	RK-3T 19" rack adapter
Specifications are subject to change without notice at <a href="http://www.kramerav.com">www.kramerav.com</a>	