



# Instruction Manual

**MX-2522**  
**2x2 RGBHV MATRIX SWITCHER**



## **Table of Contents**

<b>1.0</b>	<b>Introduction</b>	<b>2</b>
<b>2.0</b>	<b>Specifications</b>	<b>3</b>
<b>3.0</b>	<b>Checking Package Contents</b>	<b>4</b>
<b>4.0</b>	<b>Connecting the Hardware</b>	<b>4</b>
<b>5.0</b>	<b>Operating The Unit</b>	<b>5</b>
<b>6.0</b>	<b>Troubleshooting</b>	<b>5</b>
<b>7.0</b>	<b>Limited Warranty</b>	<b>6</b>
<b>8.0</b>	<b>Regulatory Compliance</b>	<b>6</b>
<b>9.0</b>	<b>Contact Information</b>	<b>7</b>

## **1.0 INTRODUCTION**

Thanks for purchasing this MX-2522 Matrix switcher from TV One. The MX-2522 is a 2x2 Matrix switcher. With a 2x2 matrix switcher, either input can be directed to either output, or both inputs to a single output, a feature that greatly improves its utility. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Seamless Switchers, Video Scalers, Up/Down/Cross Converters, Analog-Digital Converters (SD/HD-SDI, HDMI, DVI), Format Converters, Standards Converters, TBC/Frame Synchronizers, Matrix Routing Switchers, Signal Distribution Amplifiers and Cat.5 Transmission Systems.

### **1.1 Liability Statement**

Every effort has been made to ensure that this product is free of errors. TV One cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

TV One reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

All third party trademarks and copyrights are recognised. The TV One logo, TV One-task and CORIO are the registered Trademarks of TV One. All other trademarks are the property of their respective holders.

### **1.2 Features**

The MX-2522 Matrix Switcher has many features that enable it to perform in a superior manner. Among those features you will find:

- 1920x1440 Maximum Resolution
- 250Mhz Pixel Frequency
- Extends Video Signal Distribution up to 17 Feet
- Supports DDC, DDC2 and DDC2B on the outputs
- Can be Cascaded
- Output compatible with standard VGA cards
- Optional Rack Mount kits are available

## 2.0 SPECIFICATIONS

<b>Video Inputs</b>	
RGBHV	2x via HD-15 Female Connectors
<b>Video Outputs</b>	
RGBHV	2x via HD-15 Female Connectors
<b>General</b>	
Maximum Resolution	1920x1440
R-G-B Bandwidth	>300MHz
R-G-B Level Range	0.5-2.0 Vp-p
Maximum Distance	Up to 50 meters from Switcher
Signal Type	RGBHV, RGBS, RGsB
Monitor Support	DDC1, 2, DDC2B, 2B+, 2AB
<b>Mechanical</b>	
Size (H-W-D)	44x130x74mm (1.75"x5.1"x2.9")
Weight (Net)	450 g (1 lb)
<b>Warranty</b>	
Limited Warranty	2 Years Parts and Labor
<b>Environmental</b>	
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (-4° to +158° F)
Storage Humidity	10% to 90%, Non-condensing
<b>Power Requirement</b>	
MX-2522	7.5VAC@800mA
<b>Regulatory Approvals</b>	
Amplifier Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x Operations Manual	
1x Power Adapter	US, UK or Euro
<b>Product Item Numbers</b>	
MX-2522	2x2 Matrix Routing Switcher

### 2.1 Input/Output Signals

Pin #	Signal	Pin #	Signal
1	Red Video	9	NC
2	Green Video	10	Ground
3	Blue Video	11	ID0
4	ID2	12	ID1
5	Ground	13	Horizontal Sync
6	Analog Ground	14	Vertical Sync
7	Analog Ground	15	ID3
8	Analog Ground		

### 3.0 CHECKING PACKAGE CONTENTS

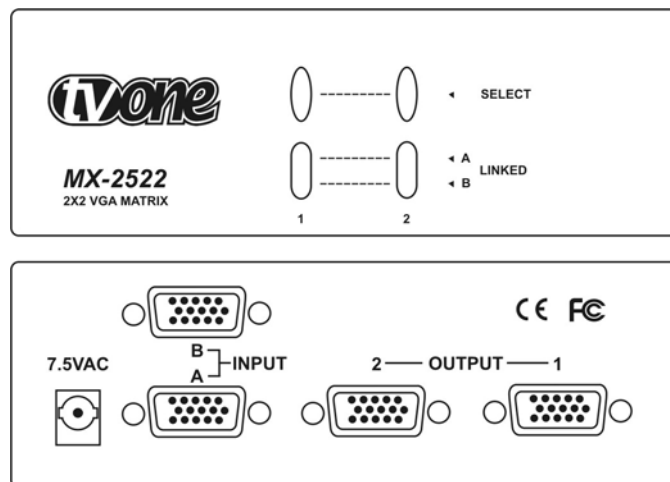
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x MX-2522 Matrix Switcher
- 1x User Manual
- 1x Power Adapter with 7.5VAC, 800mA output

*Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.*

### 4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the signal input, outputs, power requirements/inputs plus any controls present.



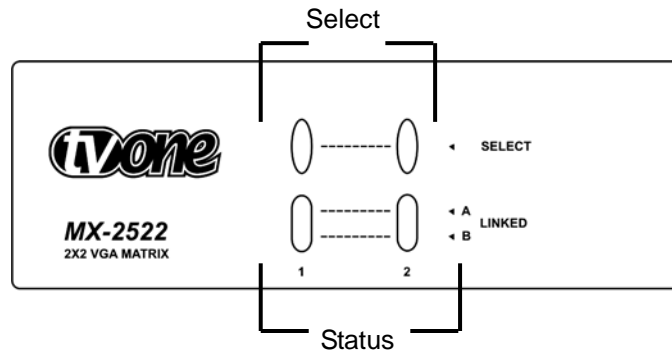
After you have familiarized yourself with the front and rear panel layouts, connect the various signal cables and power connections in the following order:

1. Turn off all PCs and Monitors
2. Connect PCs to A and B inputs using high quality HD-15 Cables
3. Connect Outputs 1 and/or 2 to the desired monitors or projectors
4. Connect Power to Video Matrix, turning and locking DC connector in place, then plug Power Adapter into AC socket
5. Turn on PCs and Monitors or Projectors.

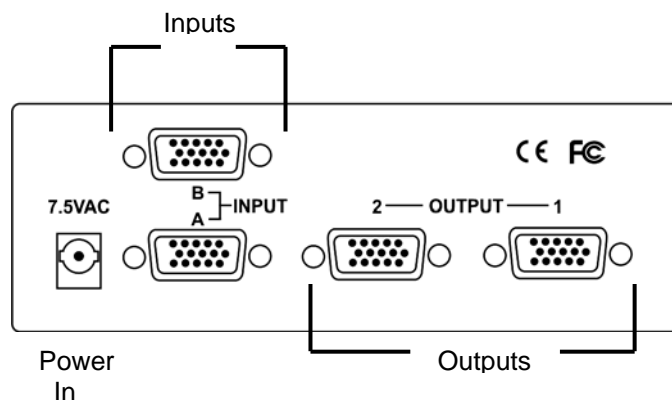
*Note: Optional rack mount kits are available to allow placing either one or two MX-2522 units in a standard 19" rack. The part numbers are RM-310S for mounting a single MX-2522 and RM-310D for mounting two MX-2522 units.*

## 5.0 OPERATING THE UNIT

### FRONT VIEW



Inputs A or B are directed to the desired output (1 or 2) by pressing the Select Buttons. These are toggle buttons and will cause either Input A or Input B to appear on either Output 1 or Output 2. By using the same procedure, both Outputs can be assigned to the same Input. LEDs (Status) indicate your choice.



### REAR VIEW

## 6.0 TROUBLESHOOTING

Problems with the MX-2522 Matrix Switcher are rare. Most of the time, the problem is caused by the use of an incorrect cable for the signal type, too long a cable run, bad connectors on the cable or damaged cables. Bad grounds or use of different AC power sources for the MX-2522 Matrix Switcher, Signal Source and/or Display Device(s) may also cause problems due to ground loops.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting TV One. Should the dealer's technical personnel be unable to assist you, contact TV One via our support website:

**<http://tvone.crmdesk.com>**. Create a technical support request on the site and our support team will respond within a short period of time.

## **7.0 LIMITED WARRANTY**

LIMITED WARRANTY – With the exceptions noted in the next paragraph, TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in TV One's opinion, prove defective within this warranty period, TV One, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of TV One. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into TV One products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to TV One.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from TV One and return the product to a location designated by TV One, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to two years from the date of purchase. TV One assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

TV One makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of TV One with respect to any defective products will be limited to the repair or replacement of such products. In no event shall TV One be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

## **8.0 REGULATORY COMPLIANCE**

The MX-2522 Matrix Switcher has been tested for compliance with appropriate FCC and CE rules and regulations. The Power Adaptor/Supply has been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, Regulations and/or Guidelines. This Product and Power Adapter is RoHS Compliant.



## 9.0 CONTACT INFORMATION

Should you have questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location shown below:

### **TV One USA**

2791 Circleport Drive  
Erlanger, KY 41018  
USA  
Tel 859-282-7303  
Fax 859-282-8225  
sales@tvone.com  
www.tvone.com

### **TV One Europe**

Continental Approach  
Westwood Industrial Estate  
Margate, Kent CT9 4JG, UK  
Tel +44 (0)1843 873311  
Fax +44 (0)1843 873312  
sales.europe@tvone.com  
www.tvone.eu

### **TV One Latin America**

6991 NW 82 Avenue #8  
Miami, FL 33166  
USA  
Tel 305-396-6275  
Fax 305-418-9306  
sales.latinoamerica@tvone.com  
www.tvonela.com

### **TV One Mercosur**

Honduras 5849, 2<sup>nd</sup> Floor, Office C  
(C1414BNI) Capital Federal  
Buenos Aires, Argentina  
Tel +54 11 4771-5570  
Fax +54 11 4771-5570  
sales.latinoamerica@tvone.com  
www.tvonela.com

### **TV One Asia**

11F, NO.28, Sec. 2  
San-Min Rd, Panchiao City  
Taipei Hsien 220  
Taiwan R.O.C.  
Tel +886 2 8951-0674  
Fax +886 2 8951-0675  
sales.asia@tvone.com  
www.tvoneasia.com

### **TV One China**

Rm.9C, Neiwailian Building  
No.518 Shangcheng Road  
Pudong, Shanghai  
China 200120  
Tel +86 21 5830-2960  
Fax +86 21 5878-0161  
Email: sales.china@tvone.com  
Website: www.tvonechina.com

End of Manual