



# Instruction Manual

**LM-701M**  
**Color LCD Monitor**



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## **1.0 INTRODUCTION**

Thanks for purchasing this LM-701M LCD Monitor from TV One. The LM-701M LCD Color Monitor features a 7.0" diagonal Active Matrix Liquid Crystal Display offering high brightness and wide viewing angles. It has two Composite Video Inputs and NTSC or PAL standards are automatically detected. The image on the screen can be reversed via a provided switch. It has a sturdy metal case ideal for field work. The monitor is flicker-free, light weight, space saving and features low power consumption. It includes a tiltable sunshade for improved viewing in bright areas and a desk mount accessory.

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 LM-701M Color LCD Monitor has many features that enable it to perform in a superior manner. Among those features you will find:

- Rugged Metal Case
- 2 Composite Video Inputs
- High Brightness – 250 cd/m<sup>2</sup>
- 12VDC Operation
- 4:3 and 16:9 Format Display Modes
- VESA Standard Mounting Holes
- Provided Desk Stand and Sunshade

## **2.0 IMPORTANT SAFETY INSTRUCTIONS**

To insure the best from this product, please read this manual carefully. Keep it in a safe place for future reference. To reduce the risk of electric shock, do not remove the cover from the unit. No user serviceable parts inside. Refer servicing to qualified personnel.

### **2.1 Power and Connections**

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet. The off state for this unit is called standby mode. In standby mode the unit is designed to consume a reduced quantity of power compared to normal operating modes. When not using the unit for a long period of time, insure that the AC power cord is disconnected from the wall outlet. The AC wall outlet should be installed near to the unit and be easily accessible. Do not plug in or attempt to operate an obviously damaged unit.

### **2.2 Water and Moisture**

To reduce the risk of fire, do not expose the unit to rain, water or excessive moisture.

### **2.3 General Care**

Do not force switches or external connections. When moving the unit, disconnect the serial port connections first then the power cable and finally the interconnecting cables to other devices. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Use a clean dry cloth.

## **3.0 INTELLECTUAL PROPERTY**

Some IC chips in this product include confidential and/or trade secret property. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble, or decompile the contents thereof.

## 4.0 SPECIFICATIONS

<b>Display</b>	
Display Size	7.0" (17.8cm)
Panel Resolution	1440x234
Active Area	154.1x86.58mm
Left/Right View Angle	45°
Up/Down View Angle	10°/30°
<b>Inputs</b>	
Composite Video	2x via RCA Connectors
Mono Audio	1x via RCA Connector
<b>General</b>	
Display Element	Active Matrix TFT
Brightness	250 cd/m2
Contrast Ratio	200:1
TV Standards	NTSC-PAL Auto-detect
Vertical Frequency	NTSC:60Hz, PAL:50Hz
Horizontal Frequency	NTSC:15.75KHz, PAL:15.625KHz
Video Monitoring	Via RCA Connector
<b>Controls</b>	
Image Reverse	Via Switch
Image Adjustments	Menu
OSD Menu Display	Switch
Video Input	Video 1-Video 2 Switch
Power	On/Off Switch
<b>Mechanical</b>	
Size (H-W-D)	136x195x36mm (5.3"x7.6"x1.4")
Weight (Net)	780 g (1.7 lbs)
Mounting	VESA Standard
<b>Environmental</b>	
Operating Temperature	0° to +60° C (+32° to +140° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-20° C to +70 ° C (-4° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
<b>Power Requirement</b>	
External Power Supply	+12VDC
<b>Regulatory Approvals</b>	
Monitors	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x Operations Manual	
1x Sunshade, Stand	
1x Power Adapter	US, UK or Euro
<b>Limited Warranty</b>	
Unit, except LCD Panel	3 Years Parts and Labor
LCD Panel	Panel Manufacturer's Terms

## 5.0 CHECKING PACKAGE CONTENTS

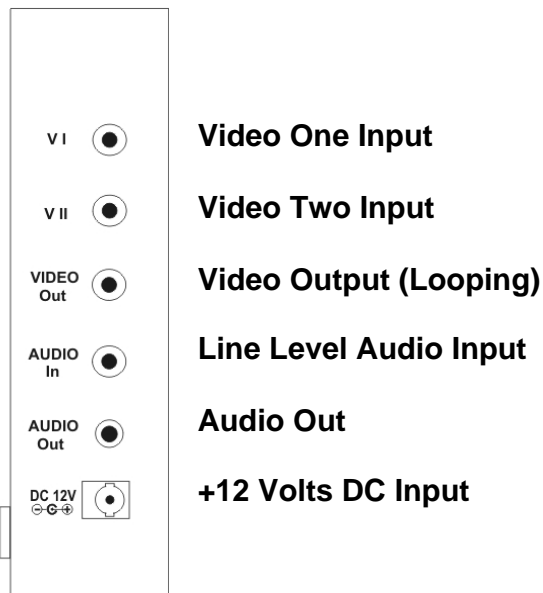
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x LM-701M Monitor
- 1x 12 VDC Power Supply
- 1x Sunshade
- 1x VESA Mounting Plate
- 1x Desk Top Bracket
- 1x Hardware Package
- 1x Operations Manual

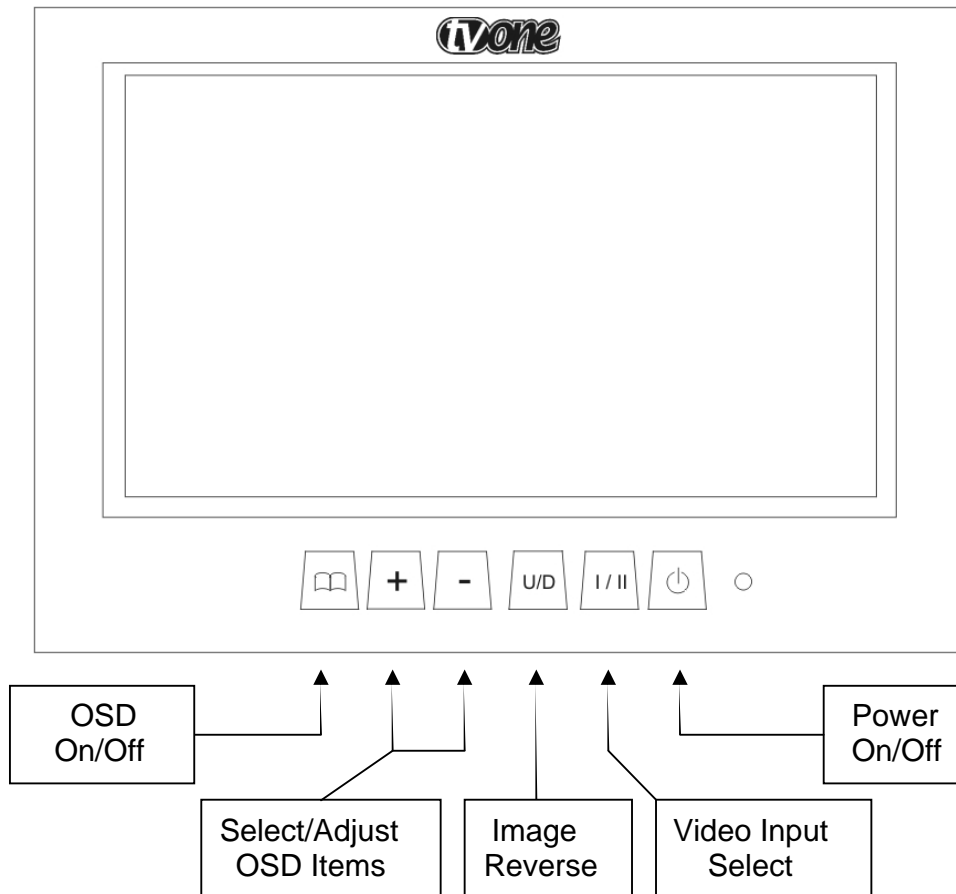
**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

## 6.0 CONNECTING THE HARDWARE

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



Next, study the front panel drawing below and become familiar with the control actions explained in the Operating Section of this manual.



## 7.0 OPERATING THE UNIT

Pressing the Power On/Off switch allows the included AC Adapter to provide +12 VDC operating voltage to the unit. The LED located to the right of the Power On/Off switch will glow if power is present when the switch is pressed.

*Note: Do not connect an AC adapter other than the one furnished with the unit or damage may result that will not be covered by the warranty.*

Connect a NTSC or PAL Video input to either input 1, input 2 or both inputs. Assuming you are providing the unit with an NTSC or PAL composite video input(s) of the proper level and signal format, you should see an image on the monitor when you select the appropriate Video Input using the Video Input Select switch. If desired, you can connect a Cable to the Video Output connector and loop the monitor's image to another video device at this time.



## 7.1 Image Reverse

Pressing the Image Reverse switch causes the display to scan from right to left (instead of normal left to right) and also will turn the image upside-down if you are using a special purpose camera as the input.

## 7.2 OSD (On Screen Display)

The OSD (On Screen Display) switches allow adjustment and control of several functions on the LM-701M monitor. To cause the OSD to appear on the monitor, press the OSD On/Off switch.

Once the OSD is on, use the + and – keys to select the function you desire to change and once you've moved to that desired function, press the OSD switch again to actually select the function for modification.

When you have made the function selection, use the + and – keys to make the adjustment or change the function.

Functions that may be adjusted are: Brightness, Contrast, Color Hue and Color Saturation. The function labeled "Display Mode" allows selection of either 4:3 (standard display) or 16:9 (wide screen) display formats.

Exit the OSD mode once you've made the changes or completed the selection process.

## 8.0 TROUBLESHOOTING

If the LM-701M monitor does not appear to be functioning, make certain that the source and all other devices connected to the unit are functioning correctly by connecting each device currently connected to the LM-701M directly to another monitor using the same cable. (In other words, bypass the LM-701M to make certain that the problem is not with the source devices.) If the signal is present under those conditions, make certain that the power is present to the LM-701M.

*Note: It is strongly recommended that you use premium cables to achieve maximum distance cable runs and the best performance possible. Use of low quality cables will seriously degrade the performance of the LM-701M monitor.*

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.

## **9.0 LIMITED WARRANTY**

TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. TV One branded products based on TV One's CORIO technology are warranted for a period of five years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, CX, A2 or S2.
2. TV One-task branded products, other than those based on TV One's CORIO technology mentioned above, are warranted for a period of three years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. LCD Monitors are warranted for a period of three years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to TV One.

Should a 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.

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.

## 10.0 REGULATORY COMPLIANCE

The LM-701M monitor 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.

## 11.0 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.

### **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**

Av. Diaz Velez 3965 #PB  
(1200) Capital Federal  
Buenos Aires, Argentina  
Tel +54 11 5917-2525  
Fax +54 11 4032-0281  
sales.mercosur@tvone.com  
www.tvonela.com

### **TV One Asia**

16F-4, NO.75, Sec. 1  
Hsin Tai Wu Road, Hsichih  
Taipei Hsien 22101  
Taiwan R.O.C.  
Tel +886 2 2698-2296  
Fax +886 2 2698-2297  
sales.asia@tvone.com  
www.tvoneasia.com

### **TV One China**

Rm. 1007, Golden Peach Bldg.  
No. 1900 Shangcheng Road  
Pudong, Shanghai  
China 200120  
Tel +86 21 5830-2960  
Fax +86 21 5851-7949  
Email: sales.china@tvone.com  
www.tvonechina.com

End of Manual