



# Instruction Manual

LM-1511R and LM-1911R  
Color LCD Rackmount Monitors



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## **1.0 INTRODUCTION**

Thanks for purchasing this LM-1511R or LM-1911R LCD Monitor from TV One. The LM-1511R and LM-1911R LCD Monitors are designed to provide superior image displays under a variety of conditions and operate as either rack mount or desk top devices. 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-1511R and LM-1911R Color LCD Monitors have many features that enable them to perform in a superior manner. Among those features you will find:

- Vertically Tiltable Rackmount Housing
- High Resolution Computer Images Support
- Stereo PC Audio Input
- Two Composite Video Inputs with Looping Outputs
- S-Video Input
- Stereo Line Audio In/Out
- VESA Standard Wall and Arm Mountable
- Built-In Stereo Speakers

## **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.

### **2.4 Location**

Installation of this unit should be in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold.

### **2.5 Ventilation**

Slots and openings in the sides of the unit are provided for ventilation. To insure reliable operation, avoid obstruction of these openings and insure the unit is installed in a well-ventilated area.

## **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>LCD Panel</b>	<b>LM-1911R</b>	<b>LM-1511R</b>
Display Size - Diagonal	48.2cm (19")	38.1cm (15")
Panel Resolution	1280x1024	1024x768
Contrast Ratio	500:1	450:1
Brightness	250 cd/m2	330 cd/m2
Left/Right View Angle	160°	130°
Up/Down View Angle	160°	100°
<b>PC Input Range</b>		
Maximum Resolution	1280x1024	1024x768
Vertical Freq Range	60~75Hz	56~75Hz
Horizontal Freq Range	31.5-80KHz	31.5-80KHz
<b>Video Input Range</b>	NTSC/PAL	NTSC/PAL
Vertical Frequency	60Hz/50Hz	60Hz/50Hz
Horizontal Frequency	15.75KHz/15.625Khz	15.75Khz/15.625KHz
<b>Inputs</b>		
Composite Video	2x via Looping BNC Connectors	
S-Video	1x via 4-Pin Mini-DIN Connector	
Stereo Audio	2x via 2 RCA Connectors (R/L)	
Computer	1x via HD-15 Female	
Computer Stereo Audio	1x via 3.5mm Mini-Stereo Jack	
<b>General</b>		
Aspect Ratio	4:3	
Display Element	Active Matrix TFT	
Video Adjustments	Brightness, Contrast, Color, Hue	
Speakers	Internal – Right & Left Channel	
TV Standards	NTSC/ PAL/SECAM Auto-detect	
<b>Front Panel Controls</b>		
Left, Right Buttons	Menu Navigation and Control	
Audio Volume	Decrease/Increase	
Source Select Button	Toggle thru inputs	
Power Button	On/Off Switch	
<b>Limited Warranty</b>		
Unit, except LCD Panel	1 Year Parts and Labor	
LCD Panel	Panel Manufacturer's Terms	
<b>Mechanical – In Rackmount</b>		
LM-1911R Size (H-W-D)	400x482x65mm (15.75"x19"x2.5")	
Weight (Net)	6.5 kg (14.2 lbs)	
Rackmount	9RU - Tilt Up/Down	
LM-1511R Size (H-W-D)	355x482x59mm (14"x19"x2.3")	
Weight (Net)	5.3 kg (11.6 lbs)	
Rackmount	8 RU - Tilt Up/Down	

## SPECIFICATIONS – Continued

<b>Mechanical – W/O Rackmount</b>	
LM-1911R Size (H-W-D)	424x404x65mm (15.7"x16.7"x2.5")
Weight (Net)	6.6 kg (13.6 lbs)
Wall Mount	VESA Standard
LM-1511R Size (H-W-D)	284x380x59mm (11.2"x14.9"x2.3")
Weight (Net)	4.9 kg (10.8 lbs)
Wall Mount	VESA Standard
<b>Environmental</b>	
Operating Temperature	-10° to +60° C (+14° to +140° F)
Operating Humidity	Up to 80%, Non-condensing
Storage Temperature	-20° to +70° C (-29° to +158° F)
Storage Humidity	Up to 80%, Non-condensing
<b>Power Requirement</b>	
Internal Power Supply	86-256 Volts AC, 50~60Hz
<b>Regulatory Approvals</b>	
Monitors	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x Operations Manual	
1x Rackmount Ears	
8x Rackmount Screws	Note: Rackmount Ears Provide Up/Down Tilting

### 5.0 CHECKING PACKAGE CONTENTS

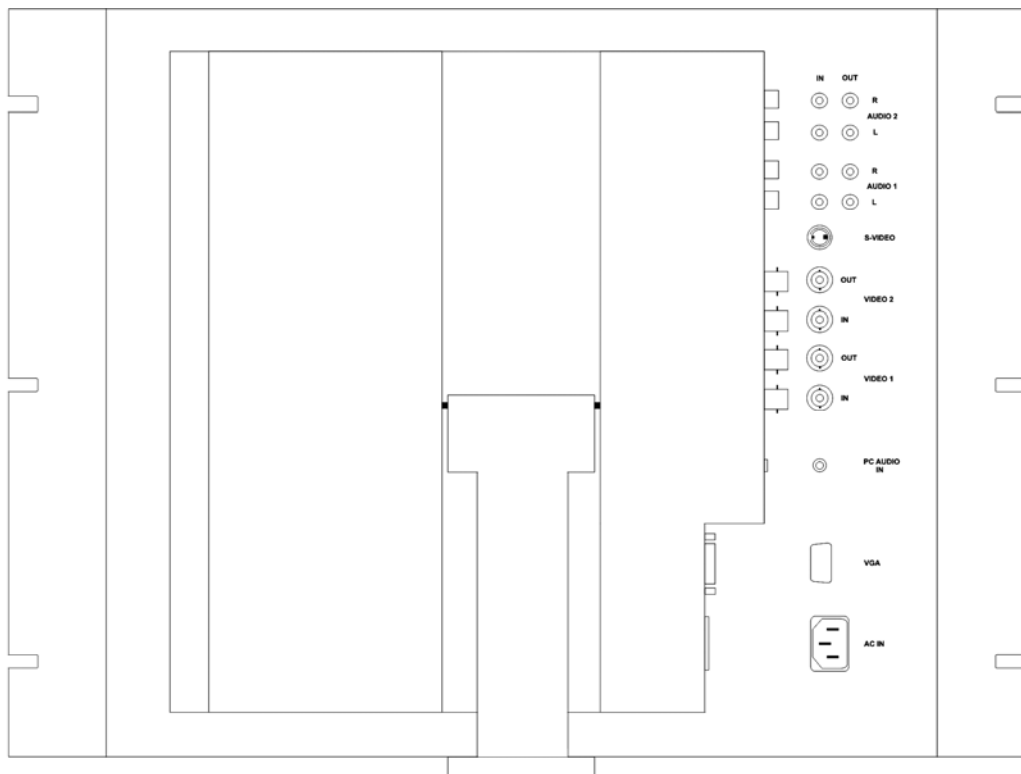
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x LCD Color Monitor
- 1x AC Cord
- 1x Set of Rack Mount Ears
- 8x Rack Mount Screws
- 1x Instruction Manual

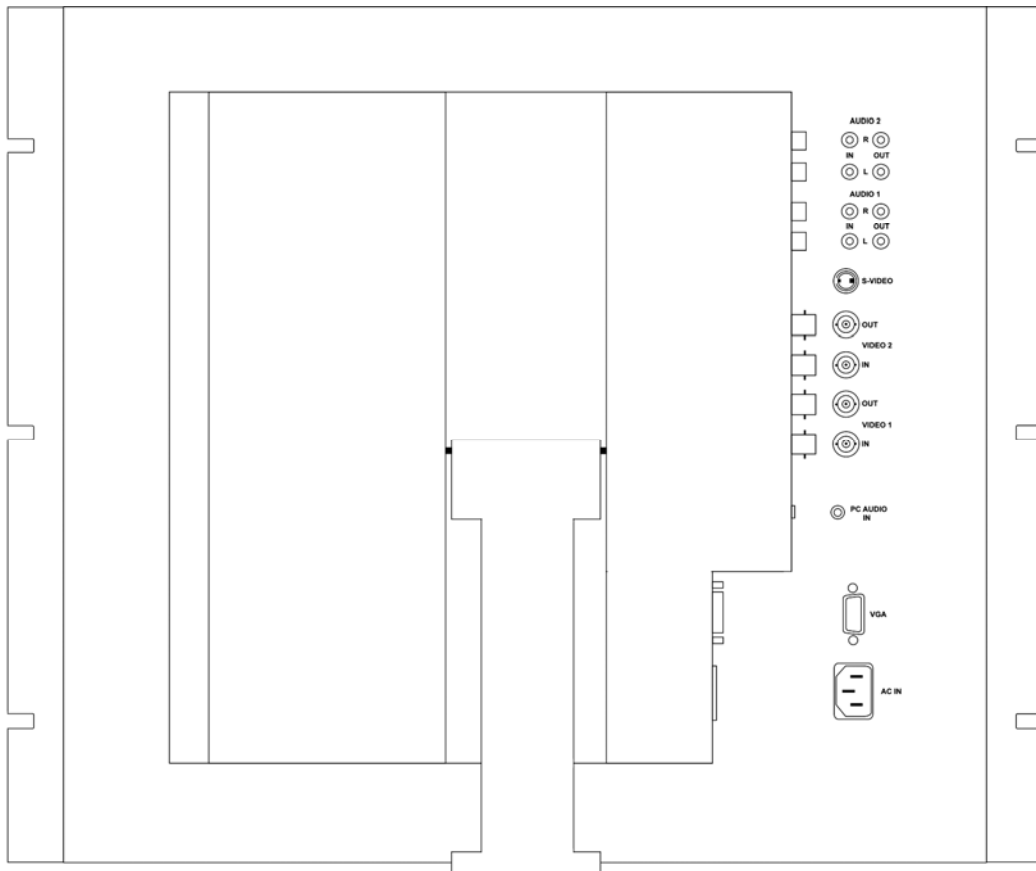
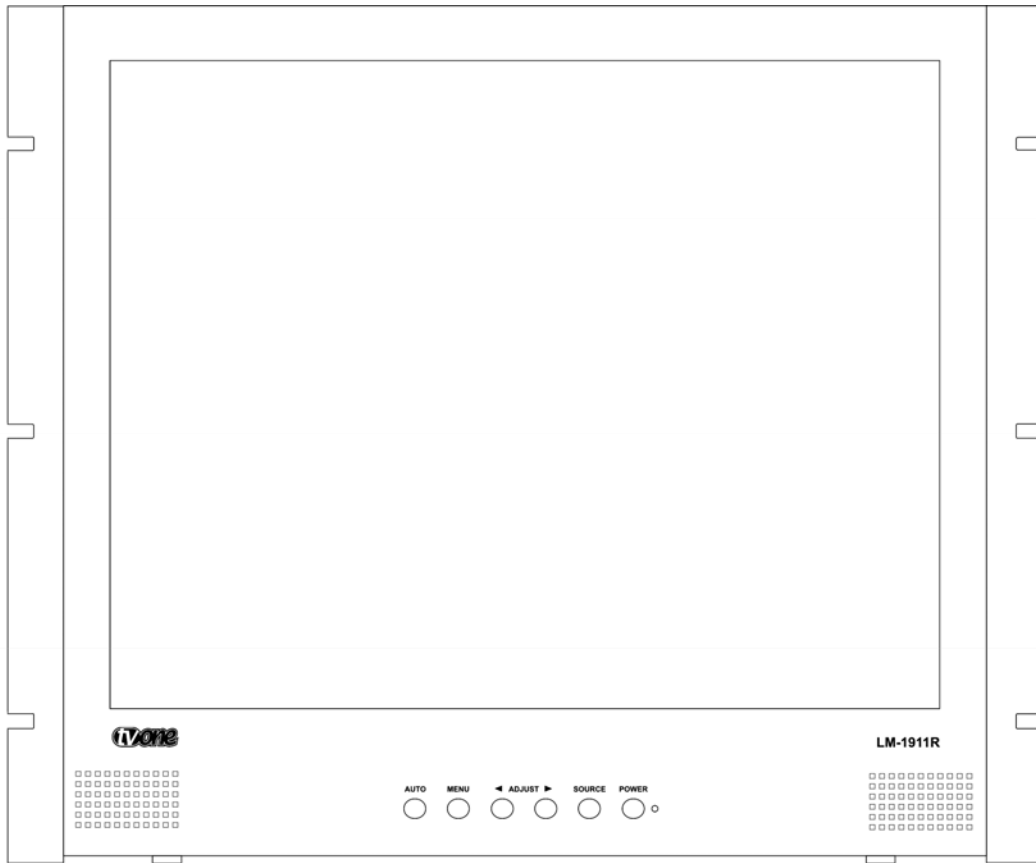
**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

## 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.







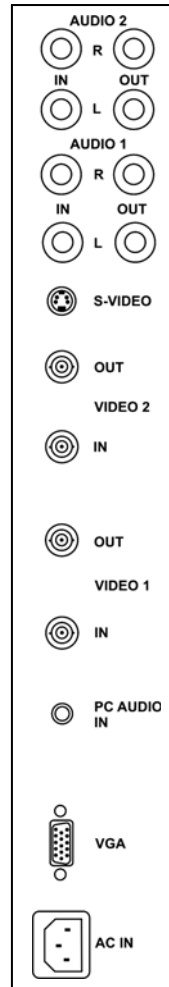
Mount the monitor in a rack or extend the unit's rear support arm for desktop operation. Use care with the support arm since small angles between the rear of the monitor and the support arm could result in the monitor falling forward onto its face resulting in possible damage.

Allow a heat dissipation area behind the monitor so that the normal operating heat from the LCD displays internal lighting system can be vented to the atmosphere.

After taking the above steps, refer to the drawing at the right and connect the AC lead plus the appropriate input cables to the unit using the drawing as a guide.

Use only high quality signal cables to produce the best images and remember that the longer the cable runs the more degradation of the signal.

*Warning: If the supplied AC cable is incorrect for your country, contact TV One immediately for a replacement. Do Not Attempt to Use An Incorrect AC Cable.*



## 7.0 OPERATING THE UNIT

The LM-1511R and LM-1911R monitors are operated using front panel controls and an On Screen Display (OSD). The controls consist of a group of six buttons located on the lower center of the front panel. Please refer to illustration below and the discussion that follows.



**Power Switch:** Pressing the button labeled 'POWER' will cause the LED at the extreme right of the control panel to change color from Red to Green and power will be applied to the monitor's circuitry. Pressing the button again will cause the LED to glow with a Red color and the power will be removed from the Monitor's circuitry.

*Warning: As long as the AC lead is plugged in, potentially lethal voltage is present inside the unit. Never attempt to disassemble the unit while power is applied.*

**Source Switch:** Pressing the button labeled 'SOURCE' will step the inputs through all possible signal input selections. Repeatedly press the button until you arrive at the desired input.

**Auto Switch:** Pressing the button labeled 'AUTO' will cause the monitor to optimize the picture any time a VGA source is present and selected. This function is only used when VGA video is the selected signal.

**Menu Switch:** Pressing the 'MENU' button will cause one of several OSD menus to appear. When an OSD Menu is active, the two adjust buttons become the controls for selecting individual functions on the OSD and also are used to adjust functions once they are selected.

Operationally, the Menu button is pressed and a menu item is selected by using the adjust buttons (arrow keys) to move a cursor until it is over the desired menu item. Once the cursor is over the menu item you want, pressing the Menu button again selects the item. The adjust buttons are then used to make an adjustment or turn a function on or off as appropriate.

There are several menus to choose from but the method of accessing and changing menu items is always the same: Press the Menu button to begin the selection process, move the cursor using the adjust buttons, press the menu button again to select the desired activity or sub menu. Once you are at the desired menu item, use the adjust buttons to make the adjustment.

When you are through making adjustments, press the menu key again and move the cursor to the Exit selection. Press the menu button to select 'Exit'.

**Adjust Switches:** Adjust Switches (Adjust Buttons) are used to set the audio volume level anytime the OSD is inactive. When the Menu button is pressed, the adjust buttons function as described above.

## 7.1 Menu Structure

There are two levels of menus: One high level menu and three sub-menus. The high level menu is accessed by pressing the Menu button causing the following OSD to appear:

<b>General Setup</b>
<b>Video Setup</b>
<b>VGA Setup</b>
<b>Exit</b>

Use the Adjust buttons to position the cursor over the sub-menu you wish to access and then press the Menu button again to select the sub-menu. Functions present for each sub-menu are as follows:

**General Setup:** Power Latching, Power Auto On, Key Lock, Language, Back Light, Display, Video Loss Setup, V-Loss Sleep Time, Volume and Exit.

**Video Setup:** Video Brightness, Contrast, Color, Tint, Sharpness, Video System, Scan Mode, Color Temperature, Default and Exit.

**VGA Setup:** VGA Signal Auto, Brightness, Contrast, Color Temperature, White Balance, H-Position, V-Position, Clock, Phase, Default and Exit.

**Exit:** Exit the OSD function.

## 7.2 General Setup

Selecting the 'General Setup' function causes the following sub-menu to appear:

<b>Power Latching</b>	<b>ON</b>
<b>Power Auto On</b>	<b>NONE</b>
<b>Key Lock</b>	<b>OFF</b>
<b>Language</b>	<b>ENGLISH</b>
<b>Backlight</b>	<b>50</b>
<b>Display</b>	<b>ON</b>
<b>Video Loss Setup</b>	<b>ON</b>
<b>V-Loss Sleep Time</b>	<b>5</b>
<b>Volume</b>	<b>15</b>
<b>Exit</b>	

**Power Latching:** memorizes power status at power off. (On=Enable, Off=Disable)

**Power Auto On:** Sets video input upon turn on (AV1, AV2, S-Video, VGA, None.)

**Key Lock:** Locks Out OSD Function (On=Enabled, Off=Disabled. Press and hold both Adjust Buttons for 5 Seconds to remove Key Lock).

**Language:** Selects English, Spanish or French.

**Backlight:** Allows adjustment of LCD backlight value.

**Display:** Show/Hide Input Title (On=Show Title, Off=Hide Title).

**Video Loss Setup:** Lowers Luminance Value during no input signal condition.

**V-Loss Sleep Time:** Adjusts delay from when signal is lost to when monitor goes dark.

**Volume:** Sets default setting for internal speaker audio level.

**Exit:** Exit this OSD menu display.

As previously explained, pressing the Menu button begins the selection process. Move the cursor using the adjust buttons and then press the menu button to select the desired sub-menu. Once in the sub-menu, use the adjust buttons to move to the desired activity and press the Menu button to select the individual function you wish to change or adjust then use the adjust buttons to actually make the change or adjustment. When you are through making adjustments, press the menu key again and move the cursor to the Exit selection. Press the menu button a final time to select 'Exit'. There are two more sub-menus to explore, Video Setup and VGA Setup. Navigation procedures are the same as explained for the General Setup sub-menu. Use the Menu button and Adjust Buttons in the same manner for all changes or parameter adjustments.

### 7.3 Video Setup

**Brightness:** Adjusts the luminance component of the picture.

**Contrast:** Adjust the contrast level between the light and dark areas of picture.

**Color:** Adjusts the amount of color present in the picture.

**Tint:** Adjusts the faithfulness of color reproduction. (NTSC Only).

**Sharpness:** Adjusts how 'crisp' the picture appears to the viewer.

**Video System:** Selects NTSC or PAL world television standard.

**Scan Mode:** Selects a magnified or undersize video image.

**Color Temperature:** Selects either 6500 or 9300 degree K display.

**Default:** Restores Factory Defaults to the Video parameter settings.

**Exit:** Exits this OSD menu display.

<b>Brightness</b>	<b>68</b>
<b>Contrast</b>	<b>23</b>
<b>Color</b>	<b>22</b>
<b>Tint</b>	<b>50</b>
<b>Sharpness</b>	<b>80</b>
<b>Video System</b>	<b>NTSC</b>
<b>Scan Mode</b>	<b>Large</b>
<b>Color Temp</b>	<b>6500</b>
<b>Default</b>	
<b>Exit</b>	

### 7.4 VGA Setup

VGA Setup is similar to Video Setup with the exception is only applies to signals coming from a Personal Computer's (PC) VGA port. The details of these signal parameters are explained on the following page.

**Auto:** Auto-optimizes the picture best reproduction of the input signal.

**Brightness:** Adjusts the luminance component of the picture.

**Contrast:** Adjust the contrast level between the light and dark areas of picture.

**Color Temperature:** Selects either 6500 or 9300 degree K display.

**White Balance:** Optimizes the picture's gray scale reproduction.

**H-Position:** Adjusts Horizontal Position of the image.

**V-Position:** Adjusts the Vertical Position of the image.

**Clock:** Adjusts the number of pixels on one line. (Affects both picture position & size.)

**Phase:** Adjusts resolution of image by sampling pixels in the center of the pixel.

**Default:** Restores Factory Defaults to the VGA parameter settings.

**Exit:** Exits this OSD menu display.

It is recommended that you refrain from making picture adjustments unless you feel certain you understand the possible effects of the intended adjustment. If you make an adjustment in error and are unable to return to proper operation, access the default function in the appropriate menu and restore the monitor to Factory Default.

<b>Auto</b>	
<b>Brightness</b>	<b>50</b>
<b>Contrast</b>	<b>100</b>
<b>Color Temp</b>	<b>9300</b>
<b>White Balance</b>	
<b>H-Position</b>	<b>54</b>
<b>V-Position</b>	<b>50</b>
<b>Clock</b>	<b>50</b>
<b>Phase</b>	<b>64</b>
<b>Default</b>	
<b>Exit</b>	

for

## 8.0 TROUBLESHOOTING

The major cause of difficulty with the LM-1511R and LM-1911R monitors is use of faulty or low quality cables, attempting to use cables over to long a distance and selecting the wrong source for what is actually connected to the monitor.

A second problem is misadjusting the monitor through improper use of the various setup menus. Before contacting TV One's technical support personnel, please make certain that your problem is not due to one of the above issues.

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

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.

## **10.0 REGULATORY COMPLIANCE**

The LM-1511R and LM-1911R monitors have 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 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**

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Fax +44 (0)1843 873312  
sales.europe@tvone.com  
www.tvone.eu

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End of Manual