



Instruction Manual

**LM-563R and LM-404R
Color LCD Rackmount Monitors**

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1.0 INTRODUCTION

Thanks for purchasing this LM-563R or LM-404R LCD Monitor from TV One. The LM-563R and LM-404R 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-563R or LM-404R 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
- Multiple Sizes and Configurations
- Composite and S-Video Inputs
- High Brightness LCD Panels
- Professional Grade LCD Displays
- Wide Viewing Angle
- Universal AC Power Adapter
- Locking DC Power Plug

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

Category	LM-404R - Quad	LM-563R - Triple
Number of Displays	4x	3x
Display Size Diagonal	10.2cm (4.0")	14.2cm (5.6")
Panel Resolution	960x234	960x234
Contrast Ratio	350:1	150:1
Brightness	350 cd/m2	300 cd/m2
Left/Right View Angle	50°	45°
Up/Down View Angle	15°/35°	10°/30°
Video Inputs	4x Composite 4x S-Video	3x Composite 3x S-Video
General		
Aspect Ratio	4:3	
Display Element	Active Matrix TFT	
TV Standards	NTSC - PAL Auto-detect	
Vertical Frequency	NTSC:60Hz, PAL:50Hz	
Horizontal Frequency	NTSC:15.75KHz, PAL:15.625KHz	
Power Requirement		
External Power Supply	12-24VDC, 8 Watts Maximum	
Mechanical		
Size (H-W-D)	133x 482x76 mm (5.25" x 19" x 3")	
Weight (Net)	2 kg (4.4 lbs)	
Rackmount Type	3 RU - Tilt Up/Down	

5.0 CHECKING PACKAGE CONTENTS

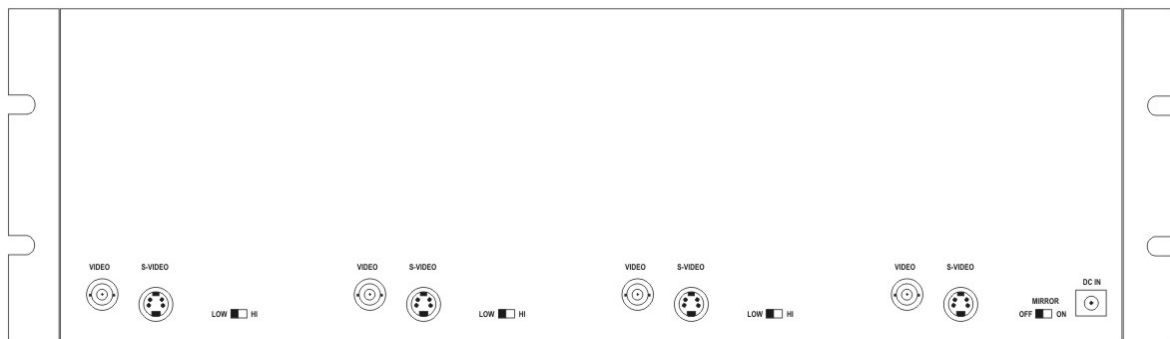
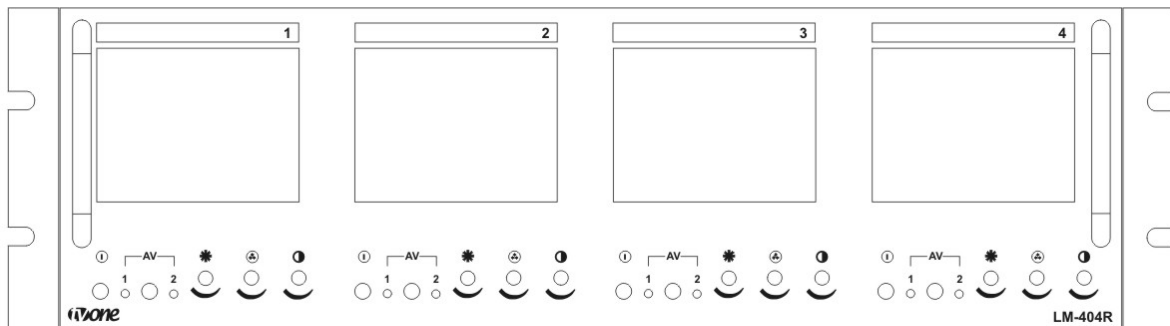
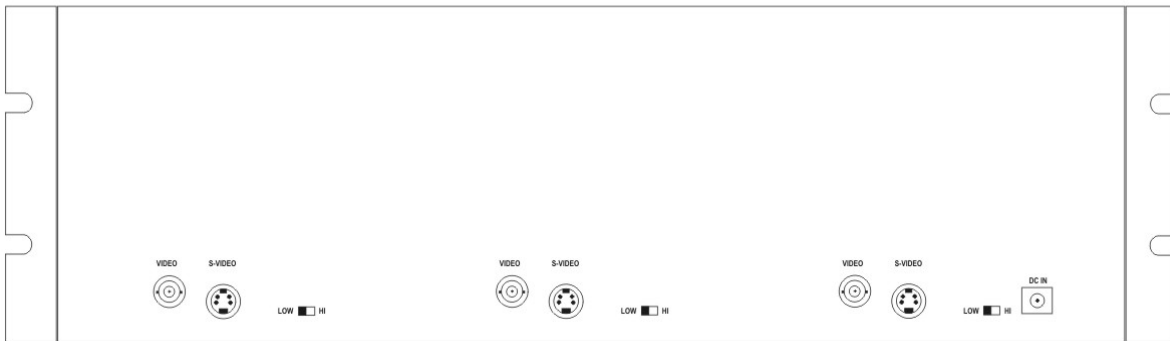
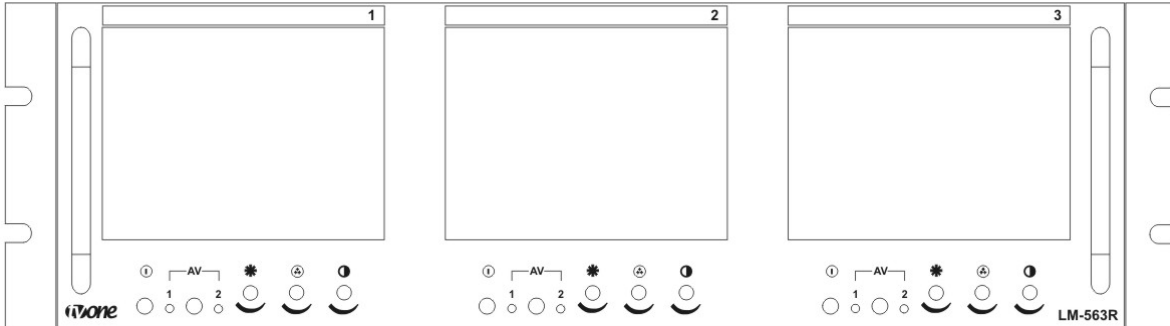
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x LCD Monitor
- 1x Set Right and Left Tilting Rackmount Ears and Hardware
- 4x Rackmount Screws for each 19" Rack Mounting
- 1x Universal AC Input Power Supply with 12VDC@4A Output
- 1x Power Supply Rear Mounting Bracket and Mounting Screw
- 1x BNC Tee
- 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.

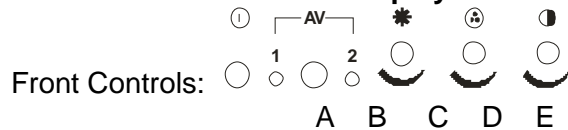
6.0 CONNECTING THE HARDWARE

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



Connect Composite Video signals via the BNC connectors. This input can be selected as either terminating or loop thru. If the signal is to be terminated at the monitor, set the Low/Hi Impedance Switch on the rear panel of the respective display to the Lo position. If the signal is to be looped through to another device, use the BNC Tee provided to feed the signal on and set the Low/Hi Switch to the Hi position. Then connect S-Video signals via the 4-Pin Mini-DIN connectors. Finally connect the 12V Power Supply (Center Pin Positive) to the DC In Jack.

Front Controls for each Display



- A) Power On/Off Switch
- B) Input Selector: 1=Composite Video, 2=S-Video
- C) Brightness, D) Contrast, E) Color Saturation

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.

6.1 Mounting the assembly in a 19" Rack

- 1) Make sure the single screw that holds each Mounting Ear (Right and Left) to the housing is securely tightened
- 2) If desired, mount the External Power Supply on the rear of the housing with the Mounting Bracket provided
- 3) Place the Mounting Bracket around the Power Supply and insert one end of the bracket into the slot in the lower center of the housing
- 4) The other end of the bracket is affixed to the housing with the screw provided to hold the Power Supply securely in place

7.0 OPERATING THE UNIT

- 1) Connect the External Power Supply to the unit
- 2) The DC Connector is a locking type, insert and twist clockwise to lock it
- 3) Switch on power to the device with the Power Switch (A)
- 4) Select either Input 1 or 2 via the Input Selector (B)
- 5) Adjust the Brightness (C), Contrast (D) and Color (E) for best picture

8.0 TROUBLESHOOTING

The major cause of difficulty with the LM563-R and LM-404R 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 LM563-R and LM-404R 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:

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End of Manual