clintonelectronics

LCD Monitor
User Manual

MODELS
- VT260-C
- VT270
- VT320-C
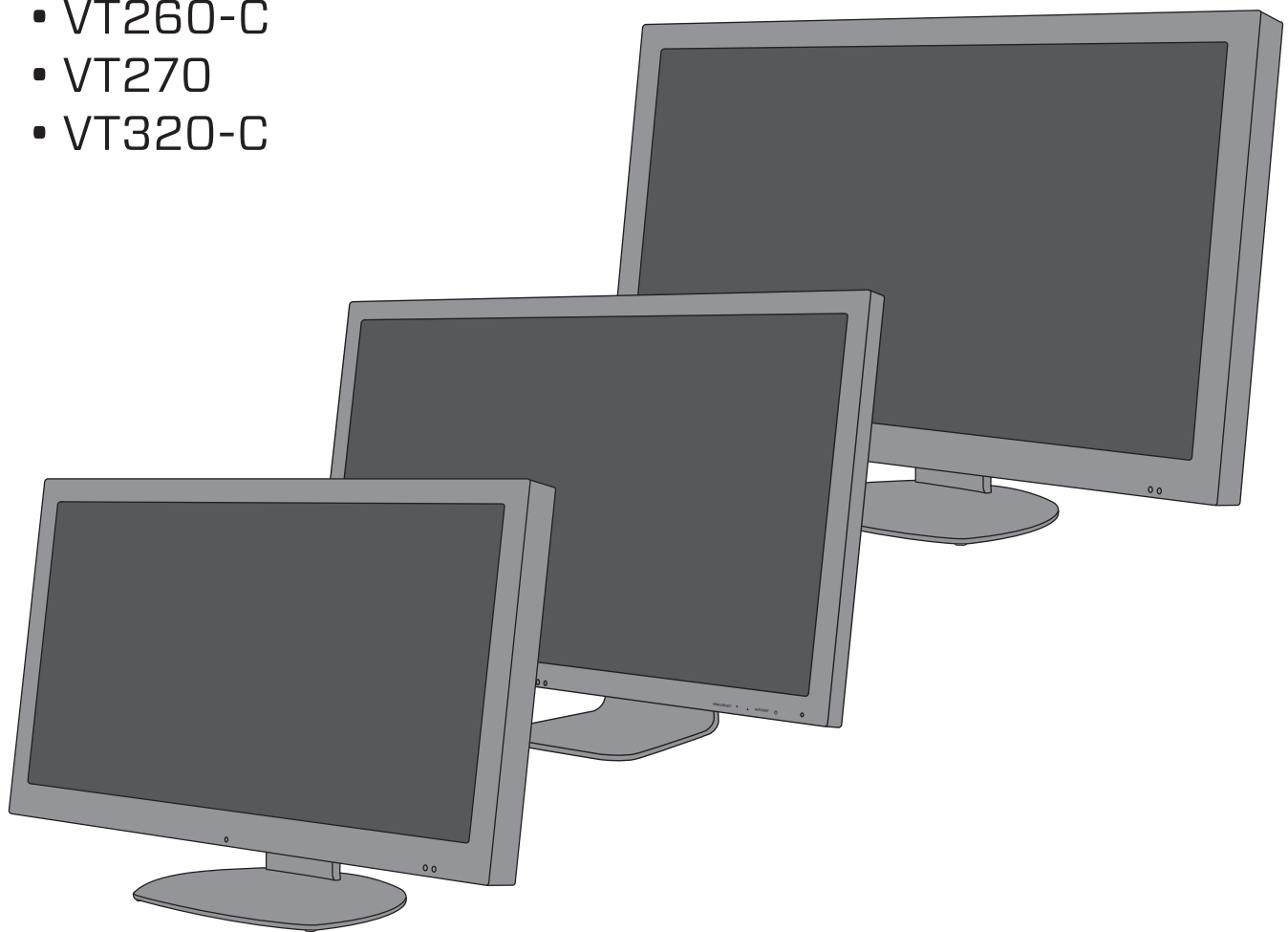
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Introduction

Congratulations on the purchase of your new LCD from Clinton Electronics Corporation. This display is designed for continued reliable use.

Features:
• Rugged Steel Enclosure
• Dual Voltage power supply
• VESA mounting pattern for ceiling or wall mount options
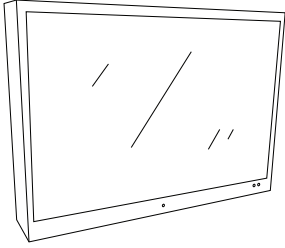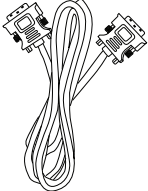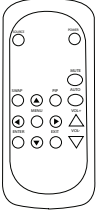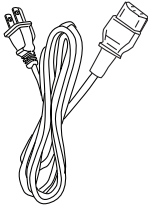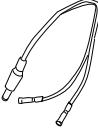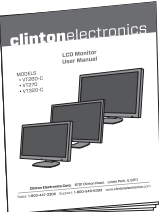• Remote control operation of all screen adjustment features
• Wide viewing angles

CAUTION
RISK OF ELECTRIC SHOCK, DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT DISASSEMBLE, REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICE TO QUALIFIED SERVICE PERSONNEL.
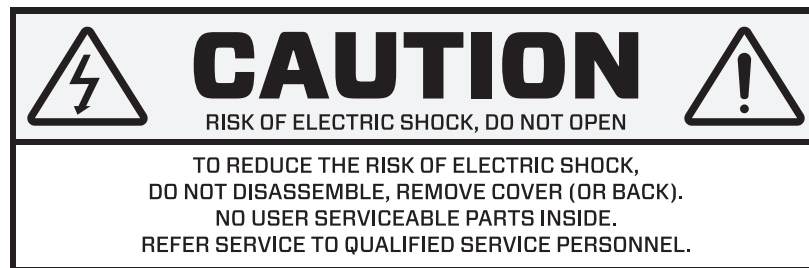
Precautions

• **There are no user serviceable parts inside the unit. Authorized service personnel must perform all service. To avoid electrical shock, do not disassemble the unit. Any attempt to disassemble the unit will void the warranty.**

• **This is a dual-voltage device. Verify proper power supply before installation. Use the supplied power cord if connecting to 120VAC wall outlet. If using the pigtail adaptor, this unit will require an external AC to DC power supply capable of supplying 24 volts DC voltage to run the display, properly sized to the wire gauge and distance of wire run.**

• **Install the monitor in a location that is suitable for the display. Make sure there is adequate ventilation around the unit, and that the display is mounted securely to its support structure.**

• **Do not place the monitor in a damp area.**

• **Clean the monitor with water or non-ammonia glass cleaners only. Do not use abrasive cleaners, abrasives, or highly concentrated ammonia to clean the front of the display. Clean with a damp cloth only, do not spray directly with water.**

PACKAGE CONTENTS

| LCD Monitor (with stand) | 5' VGA Cord | Remote Control (includes 2 AAA batteries) | 5' Power Cable | 12V DC Output Cord | Power Pigtail (for Hardwiring) | User Manual |

Installation and Set up

Unpacking your display

Your LCD display comes with the items shown above. Carefully remove the display from its packing and set the unit on a firm surface. Save the packing in case of future service requirements.

NOTE: Any shipment of the display must have the protective plastic cover taped to the front of the display to prevent shipping damage.

Installation of the display

Keep in mind the lighting conditions, viewing area, ease of installation, and distance from the power supply when choosing a location. The display is compatible with many available wall and ceiling mounts, consult your dealer for suggestions. The rear of the display has a VESA 100mm, 100mm x 200mm, and 200mm mounting patterns that accept M4 screws. Please refer to the installation instructions on the particular mounting bracket for details on how to install.

Connecting the display

This display has the Dual Voltage option. This will allow for either an external 24VDC power supply, or a standard AC outlet to power the unit.

24 VDC POWER SUPPLY: If using the Clinton 24VDC power supply (PN: CE-S320-B or CE-600-24-B), it must be located no more than 200 ft (wire length) away from the display when using 18GA wire. If the distance is further than this, please consult Clinton Electronics tech services. Connect the 18GA wire to the power supply and the other end to the included Pig-Tail connector that is supplied with the unit, paying close attention to the polarity of the connections.

⚠️ **Caution: It is critical that the polarity of the DC power be connected properly. Red is Positive, Black is Negative. Improper connection can result in damaged equipment.**

AC POWER CONNECTION: This device will accept AC voltage between 100VAC to 260VAC. Typical voltage in the USA is 110VAC to 125VAC. To connect to an AC outlet, simply connect the AC power cord from the outlet to the rear of the device.

Adjusting the Display

The display comes from the factory in a pre-set configuration that will be very close to the final set up for most installations. Minor adjustments can be made to the monitor to optimize the picture quality for a particular installation when required.

Adjusting the monitor

The monitor can be adjusted by either the included remote control, or with the OSD (On Screen Display) buttons located at the rear of the monitor. These controls will adjust all parameters of the display.
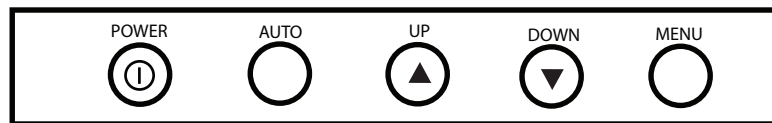
OSD Buttons

Power Button – On/Off function. This will power off both the display and the internal
camera simultaneously.

Menu Button – To adjust video, signal, tools, language use up & down buttons.

a.   Push menu button once.

b.   Push up or down button to pick category.

c.   Push menu button for sub-category.

d.   Push up or down button for movement within sub-category.

e.   When sub-category is chosen, push menu button again.

f.   Push up or down button to make your adjustment.

g.   After adjustment has been made, wait until the OSD timer runs out which will turn off the OSD menu automatically.

Auto Button – Switches video source. Steps back to previous screen when in menu.

Remote Control

Source ————⟶ SOURCE   POWER ⟵———— Power

Non-functioning   MUTE

Menu   SWAP   PIP   AUTO   Non-functioning
                                                                          buttons
Selection Arrows   MENU   VOL+

                         ENTER   EXIT   VOL-
Enter
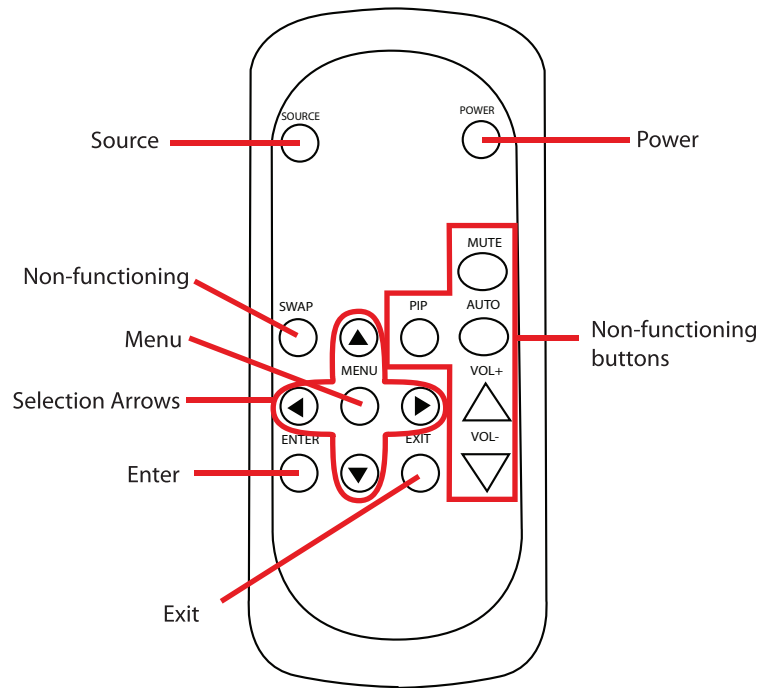
Exit

Power – On/Off function. This will power off both the display and the internal camera.

Source –Switches video sources.

Selection Arrows – Use to navigate through menus and settings.

Enter – Use to enter a selection.

Exit – Use to back out of menus.

Menu – To adjust video, signal, tools, language use up & down buttons.

- Push MENU button.

- Use UP or DOWN arrow buttons to pick category.

- When category is selected, press ENTER button to enter function.

- Use arrow buttons located around the menu button to select and adjust parameter.

- When adjustment of selected parameter is done, press EXIT to go back to the previous screen, or simply wait for the menu screen to time out.

Video/Display Set-up

The display should be pre-set for most installations, however if some adjustment is necessary, we suggest you follow these recommendations by pressing the MENU button on the back of the device or on the remote:

1. First adjust the BRIGHTNESS control to set the black level so that the images are at their brightest while the black images are still black. Do not adjust too high where the black portions of the image become gray or the image will have a "washed out" appearance.

2. Set the CONTRAST control to set the white level so that the images are at their brightest without losing definition in the white portions of the image. Setting too high will result in oversaturated areas.

3. Adjust the COLOR control to achieve a realistic image of the items within the viewing area.

4. Adjust the TINT control if the image has bluish or reddish tint to the white portions of the image.

5. Adjust the SHARPNESS lower if the image appears too grainy or pixelated. Increase the SHARPNESS if the image appears too soft. **Note: Adjust the SHARPNESS control only after adjusting the camera lens for optimum focus.**

6. In the DISPLAY menu, there is a setting for the Aspect Ratio. When using a VGA or HDMI source, this should be set to FULL SCREEN. When using BNC inputs 1, 2 & 3, this should be set to CINEMASCOPE to display the image without stretching.

You have the option to enable Picture-in-Picture on this device.
Select a PIP Mode: Off, Large PIP, Small PIP, Side-by-Side
Select a PIP Position: Bottom-Right, Bottom-Left, Top-Left, Top-Right
Select a PIP Source: PC, or HDMI

7. The RECALL selection found in the SYSTEM SETTINGS menu can be used to return the Video settings back to the factory defaults.

Video ——

Display ——

Audio (unused) ——

System Settings ——

Video		
Contrast		221
Brightness		110
Color		174
Tint		127
Sharpness		15
Advanced		▶

AV1   676x182@59Hz

Audio Menu

1. The Audio Menu will not be used on this unit.

System Settings Menu

1. The LANGUAGE can be set to one of the following: English, Chinese, French, German, or Italian.

2. The SLEEP TIMER enables the device to power off automatically after a specified time. Selectable from 10-90min.

3. The OSD TIMER allows you to control the duration the menu is on screen from 5-30 seconds.

4. The OSD TRANSPARENCY setting allows you to set the transparency of the OSD Menu from 0 to 10.

5. The LED CONTROL will turn the LED on the front of the device on/off.

* 6. Pressing the left or right buttons on the remote, or the UP or DOWN buttons on the back of the unit while under the RECALL selection will return all display settings back to the factory defaults. Doing so will void all of your custom settings. Ensure this is your intention before proceeding.

Video ———

Display ———

Audio (unused) —

System Settings —

Troubleshooting:

Your LCD has been designed for years of trouble-free operation. However, if you do encounter an issue, please follow the recommended troubleshooting guide below.

No Image on Screen
1. Press the POWER button on the rear of the display or on your remote control. If the fan turns on and a NO SIGNAL message appears, you must change the input setting. This can be done by pressing the SOURCE button on the remote, or AUTO on the rear of the display until AV1 appears on the screen (you will need to re-power if the unit has entered the sleeping mode).

2. If using DC power for the display, check to ensure the proper voltage is applied to the display. In the case of long runs or small wire size, there may be a significant voltage drop to the display resulting in insufficient voltage to properly power the display. Monitor power must be a minimum of 21VDC when under load. Typical symptoms of low power include a display that will start briefly then shut down. Increase the power on the PVM Power Supply by turning the output potentiometer clockwise. Maximum wire run length for the 26" Monitor load is 200 ft for 18GA wire. Longer runs than 200 ft will require 16GA wire.

Unit shuts off after a while
The SLEEP TIMER may be activated. Enter into the OSD menu and set the SLEEP TIMER to OFF.

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