



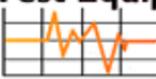
CAMVIEW™ ELITE

Ruggedized Wrist Mounted Test Monitor

Instruction Manual



**Test Equipment
Depot**

A graphic element for the Test Equipment Depot logo, consisting of a grid with a jagged orange line graph overlaid on it.

1-800-517-8431

99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431



Visit us at www.TestEquipmentDepot.com



- Thank you for purchasing the Triplet CamView™ Elite CCTV Monitor. Please read the complete manual carefully before using the product.
- To assure safe use of this product, please read the section on Safety carefully, and observe any Cautions or Warnings posted there and throughout this manual.
- Please keep this manual for future reference.

Table of Contents

Safety Information	1
Introduction	3
Features	4
Included Items	4
Controls and Indicators	5
Battery Information / Install.....	6
General Instructions	9
Specifications	15
Troubleshooting	17
Warranty	19

1: Safety Information

Dear Customer:

For the greatest safety and reliable operation, please follow these guidelines for use and care of the product. Please retain these instructions for future reference.

1. Do not expose the product to excessive dust or dirt, intense vibration, extreme humidity, or high temperatures.
2. If the product is damaged, there is a burnt smell, or smoke comes out of the case, immediately turn it off, take out the battery, and unplug the charger. Continued use may result in a fire or injury to the user.
3. Do not take the product apart. Modifying the internal electronics may result in a fire or injury to the user.
4. Do not use the product with damaged cables or a damaged charger.
5. Do not pull or stress the cables plugged into the product. Doing so may damage the cables or the connectors on the product.
6. Do not use the product in a manner in which it may fall and be damaged.
7. Use only the rechargeable battery provided with the product.
8. Do not drop, strike, bend, or crush the battery. Do not place the battery in a metal container. Failure to observe this precaution may result in a chemical leak, fire, or explosion.
9. Use only the charger provided with the product. Use of a different charger may result in fire or explosion.
10. Do not exceed the input voltage rating of the charger (110~240 VAC / 50/60 Hz).

11. If battery leaks, avoid any contact with your eyes, skin, or clothing. If contact occurs, flush immediately with water. If necessary contact a doctor for additional instructions.
12. Clean the monitor with a damp cloth and mild detergent. Do not use solvents as they may damage the product's case or LCD screen.
13. When the product will not be used for more than 1 month, disconnect it from the charger.
14. When the battery is charged, disconnect the charger to prevent overcharging.
15. Do not get the product wet. Do not submerge it in water. Injury or shock may result.
16. Do not leave the product exposed to direct sunlight.
17. Do not allow children to use the product.
18. It is normal for the product to heat up while being used.
19. It is normal for the product to heat up while the battery is charging. If possible, place the product in a ventilated area while the battery is charging.
20. If the LCD screen is damaged, avoid contact with leaking fluid. Wash hands with soap and water. Flush eyes with water.
21. This product may interfere with sensitive electronic equipment. Do not use in areas where prohibited (such as airplanes or hospitals).

2: Introduction

The Triplett CamView™ Elite is a portable battery operated video monitor designed to aid CCTV / Security electronics installers and maintenance technicians. Its high contrast 3.5" LCD screen provides a large image that is especially useful for adjusting camera setup, focus, and positioning, as well as viewing the video signal from DVRs, DVDs, VCRs, or other video equipment. It is provided with an adjustable band for use as a wrist monitor. A 12VDC (1A) output is provided to power a typical video camera, allowing complete camera setup before the rest of the installation has been completed. BNC video input and output jacks allow video to be 'Looped Through' the CamView™ for local as well as remote display. The rugged yet lightweight construction and ergonomic design maximizes convenience and portability, and the large capacity Lithium Polymer rechargeable battery delivers extended runtime. All video settings (Brightness, Contrast, Color Temp, Sharpness) are adjustable via an On Screen Menu. The Triplett CamView™ Elite is an efficient time saving test tool that will enhance any professional tool kit.

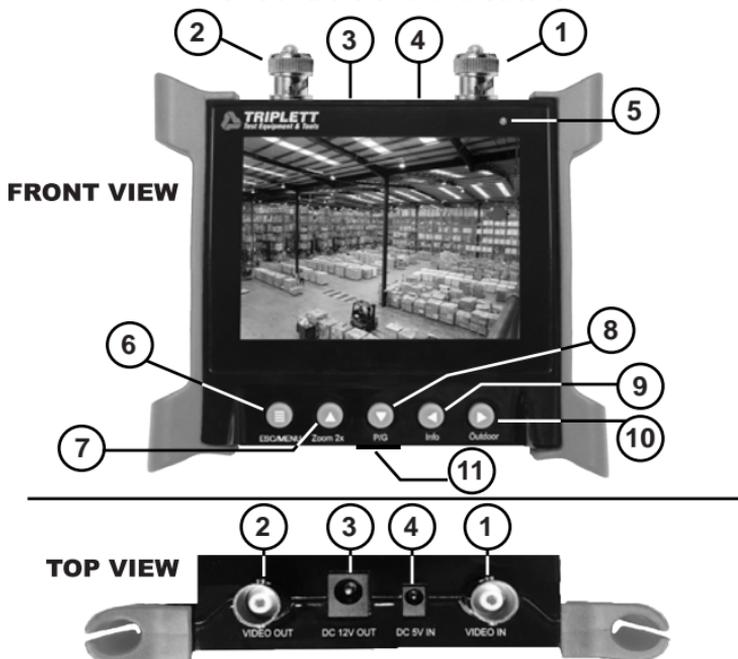
3: Features

- 3.5" High Contrast Active Matrix TFT LCD Display with Non-reflective Screen Protector
- High Brightness Daylight Viewable Display
- Wrist Mountable
- 6 Hour Rechargeable Battery
- BNC Video Input Jack
- BNC Video Output Jack (Loop-Thru)
- 12VDC (1A) Output to Power Video Camera
- On Screen Display of Video Settings
- Color Bar Generator
- Digital Zoom
- Video LVL Display
- Auto NTSC/PAL Operation
- Auto Standby
- Carrying Case
- Accessory Cables
- 1 Year Warranty

4: Included Items

- CamView™ Elite
- Lithium Polymer battery (installed)
- Wall Charger
- Adjustable Wrist Strap
- BNC Jumper Cable
- BNC to RCA adapter
- 12V Power Cable with 5.5mm Coaxial Connector
- Instruction Manual
- Carrying Case

5: Controls and Indicators



- 1 BNC Video input "VIDEO IN"
 - 2 BNC Video output "VIDEO OUT"
 - 3 Power output "DC 12V OUT"
 - 4 Charger Plug "DC 5V IN"
 - 5 Power / Charging Indicator, Bi-color LED (RED, GREEN)
 - 6 Escape and Menu button
 - 7 Zoom In button and Up arrow
 - 8 P/G Color Bar button and Down arrow
 - 9 Info button and Left arrow button
 - 10 Outdoor (Instant High Brightness) button and Right arrow
 - 11 Power switch, slide Right to turn on, slide left to turn off
- Note:** Refer to these identification numbers later in these instructions

6: Battery Information

To obtain the maximum battery life and avoid battery leaks, fire or explosion, observe the following instructions and warnings.

- Please charge the battery before first use of product
If the product is unused for several weeks, the battery will slowly discharge by itself. Recharge the battery before use.
- It is normal for battery to heat up while charging or discharging.
- Battery performance is reduced at low temperatures. If cold, allow the battery to warm gradually. Do not warm the battery with a heater or oven. This could cause the battery to explode.
- It is normal for a rechargeable battery to age and exhibit reduced performance after several hundred charging cycles. If the battery won't operate the product for the stated time (4 hours) or the battery does not hold a charge, contact Triplett at 1-800 Triplett or support@triplett.com.
- If the product will not be used for some time, disconnect the battery and leave inside the product. Store product in a dry location with moderate temperature and humidity.
- Do not transport or store the battery in a metal container or with other metal objects.
- Do not throw the battery into a fire. It may explode

Installing and Charging the Battery:

The battery should already be installed in the device. Follow the figures below on how to connect the battery connector to the battery terminal connector inside the product.



Slide battery cover to the left (See arrow on cover) to remove the battery cover



You will notice the 2 leads not connected.



Connect them, by inserting the battery connector into the battery terminal connector of the product. Replace cover once battery leads are connected.

- Now that the battery is connected properly. Plug the charger into a power source (wall outlet) then plug the charger cable into the "DC 5V IN" (3) jack. The LED indicator will illuminate RED indicating the CamView™ is charging.
- When the RED LED turns GREEN the battery is fully charged. Usually, the battery can be fully charged in 2.5 hours or less. It is normal for the battery to warm up during charging.
- The battery will not charge properly if the temperature is too low (below 32 degrees F).
- Do not charge the battery in a place where the temperature exceeds 140 degrees F. The battery may become damaged or may explode.
- A fully charged battery will not charge again until it is depleted. A partially discharged battery may be recharged at any time.
- The charger is only rated for indoor use.
- The product **cannot** be operated while the battery is charging.
- For the maximum battery life, disconnect the charger from the product once the battery is fully charged.

7: General Instructions

Turning the Product On:

After charging the battery (see Section 6), slide switch on the bottom of the unit (11) to the right. The LED should light up GREEN and a splash screen with the Triplett logo should appear. After the splash screen a display on the upper right will appear displaying Battery Life, Video LVL, Signal type and Brightness level.

The CamView™ continually tests for the presence of video signals applied to its input. It will automatically detect NTSC or PAL video signals, select the appropriate format, and display the video image.

If no video signal is present and the product is not generating a Color Bar signal, the product will enter a power saving Standby mode in 15 seconds. The screen will go black. The LED will turn RED indicating it is in Standby mode. The CamView™ will turn back on once the power switch (11) is toggled back On. Always turn product off after usage.

Connecting the Video Input:

A video signal via BNC cable can be connected to the CamView™ via it's BNC connector on top of the product indicated as "VIDEO IN" (1). The CamView™ can only display standard definition analog signals and can not display HD video over coax (ie: ADHD, HD-SDI, TVI or CVI etc).

Connecting the Video Output:

A video signal can be outputted from the CamView™ via its BNC connector on top of the product indicated as "VIDEO OUT" (2). Use the "VIDEO OUT" for Color Bar Generation and for video loop-through capabilities.

Using 12VDC Camera Power:

12VDC at 1 Amp is provided via 5.5mm coaxial connector on the top of the CamView™ labeled “DC 12V OUT” (3). This power source will operate many standard box or dome cameras. Some cameras, especially PTZ models, may require more power than the CamView™ can provide. Some cameras may require a different power source (like 5VDC or 24VAC).

When the 12VDC output is being used, the battery life of the CamView™ is reduced to as little as 45 Mins, depending on the load presented by the camera. Hence, for maximum battery life, it is advisable to only power up the camera when necessary and to complete the adjustments in the most efficient manner. The provided power cable terminates in a 5.5mm male coaxial connector. The center pin is positive polarity. The connector matches the connector found on many basic video cameras. Professional cameras often use bare wire power connections to screw terminals or wire clamps. The user must provide whatever adaptor is necessary to work with the camera brands he installs.

Adjusting the Screen Settings:

To adjust the screen settings, a good video signal should be applied to the monitor. The OSD (On Screen Display) can be accessed even when no video is present.

To access the menu press and release the “ESC/MENU” (6) button. The OSD will appear as shown in the image below.



On Screen Display (OSD) / Video Settings:

The CamView™ Elite is equipped with a OSD in order to help change various video settings. The OSD can be activated and deactivated when the “ESC/MENU” (6) button is pressed. Once pressed the OSD will display on the screen.

The factory settings are defaulted to “50”. When the settings are changed, the CamView™ will remember them, even when the power is turned off.

To select a specific setting to be altered, observe the location of the yellow cursor bar and use the up/down (7 & 8) & left/right (9 & 10) arrows to make adjustments to the values. Press the “ESC/MENU” (6) button again to exit.

Brightness, Contrast and Sharpness are self-explanatory. Color Temp adjusts the tone of the image in 3 settings Standard, Warm and Cold.

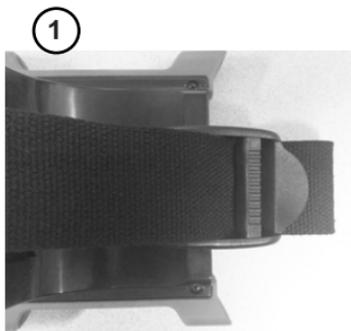
Once everything is adjusted as desired, press and release the “ESC/MENU” (6) button to turn off the OSD and return to the video display mode.

An alternate OSD is displayed after startup and when the “Info” (9) button is pressed. Once pressed a small display will appear in the upper right describing current brightness settings (Normal or High), Video LVL, Video type (NTSC/PAL) and remaining battery life. The info screen can be deactivated by pressing the “ESC/MENU” (6). See image on the following page.

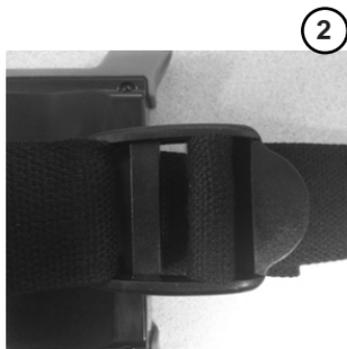


Using the wristband:

The CamView™ will come attached to a wrist band that can be adjusted to fit a variety of wrist / forearm sizes. The buckle works similar to many belt buckles. See image below.



← Strap End



Strap End →

The CamView can be mounted on your wrist like a watch or on the inside of your forearm. Both offer comfort and the ability to access all inputs, outputs and buttons with ease.

Using the Color Bar Generator:

The CamView™ Elite is equipped with a Color Bar Generator in order to test outgoing cables and monitors. The Color Bar Generator can be activated when the “P/G” (8) button is pressed. Once pressed the screen will display a 8 segmented colored bar graph. The Color Bar Generator can be deactivated by pressing the “ESC/MENU” (6) button. This signal will be displayed on the CamView™ and outputted via the BNC connector labeled “VIDEO OUT” (2) to be displayed on a corresponding security monitor. This test becomes extremely helpful when identifying if a BNC cable connected from the CamView™ to a security monitor is working properly. The corresponding security monitor should display the color as seen on the CamView™. If no picture appears on the corresponding security monitor, please check if the CamView™ and security monitor are connected properly and that the settings on the security monitor are properly set to accept an analog BNC video signal.

Using the Zoom Function:

The CamView™ Elite is equipped with a digital Zoom Function. This function allows the displayed camera imaged to be zoomed in by 2x. This feature becomes useful when trying to focus a camera to a specific location. The Zone Function can be activated when the “Zoom 2x” (7) button is pressed. Once pressed the screen will zoom into the center of the image that the CanView™ is displaying (The CamView must be displaying a camera signal for the Zoom Function to work). The Zoom Function can be deactivated by pressing the “ESC/MENU” (6) button. If desired the Up/Down (7 & 8) and Left/Right (9 & 10) arrow keys can be used to navigate the zoomed image to find the desired area.

Using the Outdoor setting:

The CamView™ Elite is equipped with a short cut button to activate the highest level of brightness the CamView™ can display. The Outdoor setting can be activated and deactivated when the “Outdoor” (10) button is pressed. Once pressed the screen will instantly change from default brightness setting to 100% brightness. This aids in viewing the CamView™ screen outdoors in direct sunlight.

Understanding the Video LVL display:

The CamView™ Elite has the ability to display the Video Signal level in Millivolts (mV) via the OSD when the “Info” (9) button is pressed. This feature becomes useful when diagnosing a variety of camera issues. For example in order for a successful and reliable video signal to be outputted by a camera to a monitor or to a DVR the Video LVL needs to be above 1.1V (1100 mV). If the signal is below 1.1V it could cause signal drop or loss.

Standby and Low Battery:

If no video signal is present and the product is not generating a Color Bar signal, the product will enter a power saving Standby mode in 15 seconds. The screen will go black. The LED will turn from GREEN to RED indicating it is in Standby mode. The CamView™ will turn back on once the power switch (11) is toggled back On. Always turn product off after usage.

The CamView™ will indicate a low battery once it hits 30% or lower battery life. It will indicate this by turning the LED indicator from GREEN to RED and display the battery icon with an estimated % of battery life left.

8: Specifications

Display	3.5" High Contrast Active Matrix TFT LCD Screen
Video Formats Supported	NTSC and PAL
Resolution	320 x 240
Aspect ratio	4:3
Viewing Angle	40/60/60/60 (up/down/left/right)
Brightness	250cd/m ²
Contrast	350:1
Response time	25ms
Video Level and Impedance	1.0Vp-p 75ohm
Video Adjustments via On Screen Display (OSD)	Brightness, Contrast, Color Temp and Sharpness
Connectors	Video Input: BNC (VIDEO IN) Video Output: BNC (VIDEO OUT) Power Output: 5.5 mm Coaxial (DC 12V OUT) Charger Input: 3 mm Coaxial (DC 5V IN)
Battery Life (with full charge)	4 Hrs of operation (monitor only) 12 Hours Standby 45 Mins under full load (1A load)

Battery	Lithium Polymer
AC Charger	Input: 110~240V - 50/60Hz - 0.4A Output: DC 5V/2A
12VDC Camera Power	1 Amp max. Short Circuit Protected
Battery Recharge Time	Approximately 1.5 Hours
Working Temperature	32 to 120 degrees F
Storage Temperature	0 to 120 degrees F
Relative Humidity	5 ~ 95%RH
Product Dimensions	4 ³ / ₄ " x 4 ¹ / ₂ " x 2 ¹ / ₂ "
Weight	10 Oz.

9: Troubleshooting

Problem	Reason	Solution
Won't turn on	Battery discharged	Charge battery
	Video signal removed	Reapply video signal
	Battery is cold	Warm monitor before using
Monitor turns off	Battery discharged	Charge battery
Short battery life	Temperature is too low	Charge battery at indoor temperature
Won't charge	Battery damaged / over used	Contact Triplet
No video display	No video input	Check video source and connections
	Bad cables	Replace cables
	Standby mode	Toggle power switch back on