TRIPLETT

CamView PTZ

Multi-Function Test Tool

Instruction Manual







- Thank you for purchasing the Triplett CamView PTZ CCTV Monitor with PTZ Controller. 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.

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1 Safety Information

- Use this product in accordance with any prevailing safety rules that may be imposed by local or federal authorized bodies.
- Do not use this product if it is wet or in conditions where the humidity exceeds 95%.
- Avoid exposing the product to dusty environments. Do not allow the product to get wet, and do not immerse it in liquid of any kind.
- During transportation and use, avoid mechanical shock and vibration.
- For greatest safety, do not leave the product unattended while charging.
- Although the product contains automatic circuitry to prevent overcharging, the battery life (number of charge / discharge cycles) of the product can be maximized by limiting charge time to 8 hours.
- The product should not be used in the presence of flammable gases.
- Do not disassemble. There are no user serviceable components inside.
- The product should not be used in the presence of strong electromagnetic fields.
- Don't touch the product with wet hands. Although the product itself cannot shock the user, circuits connected to the product (cameras, switches, controllers, chargers, etc.) may present a shock hazard under some conditions.
- Do not use strong detergents or solvents to clean the product.
 A cloth slightly dampened with water is suggested. If the dirt is not easy to remove, a mild detergent may be used.





2 Introduction

The Triplett CamView PTZ is a multi-function test tool designed to aid CCTV and Security electronics installers and maintenance technicians. A color LCD video monitor allows viewing of security camera images to verify their operation and setup. The CamView's keyboard allows control and setup of the camera's PTZ (Pan, Tilt, Zoom) functions (if so equipped) via a standard RS-485, RS-422, or RS-232 interface. A Color Bar Generator provides a standard test signal to check video cables, video recorders, and video monitors. LAN cable can also be tested using the CamView's built-in cable tester.

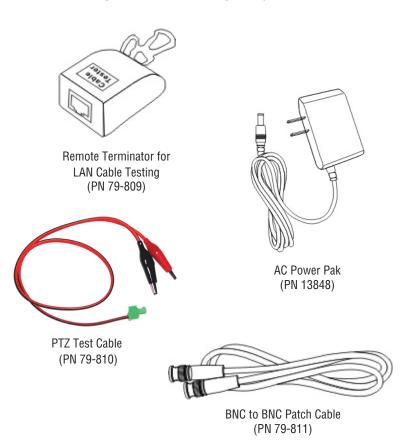
The rugged yet lightweight construction and ergonomic design maximizes convenience and portability, and the 10 hour rechargeable Li-on battery delivers extended runtime. Its multiple functions, simple operation via on-screen menus, and reliable performance makes the CamView an efficient time saving test tool that will enhance any professional tool kit.

2.1 Features and Function

- Full Color 2.6" TFT-I CD Video Monitor
- OSD (On Screen Display) of all Modes, Functions, and Settings
- Adjustable LCD Brightness / Contrast / Color Saturation
- BNC connectors match professional CCTV equipment
- · Full Loop Thru capability or simultaneous View / Gen mode
- Auto NTSC / PAL detection and video display
- PTZ Keyboard allows fast access to Pan, Tilt, Zoom, Focus, and Iris
- Keyboard allows adjustment of Groups, Tours, and Presets
- Supports more than 20 PTZ Protocols including Pelco, Samsung, Panasonic, and Sony formats
- Supports RS-485, RS-422, and RS-232 PTZ interfaces.
 Baud Rates from 150 to 19.2K
- · Data Monitor mode verifies presence of PTZ signals
- PTZ Transmit / Receive LEDs
- · Color Bar Generator produces NTSC and PAL video formats
- LAN Cable Test identifies Opens, Shorts, or Miswires
- Rechargeable Lithium Ion Polymer Battery provides 11 hour work time
- On screen battery life indicator and LED charging indicator
- Operates from battery or AC power pak
- Auto-Power-Off extends battery life (can be defeated)
- Carrying case with shoulder strap included
- Neck strap for CamView included
- BNC cable and RS-485 / RS-422 cable included
- Universal AC power pak and charger included
- LAN Remote Terminator included

2.2 Included Items

The following items are included with your Triplett CamView PTZ.



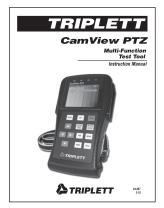
2.2 Included Items Cont.



Shoulder Strap for Carrying Case (PN 3206-94)



Carrying Case (PN 10-4303)

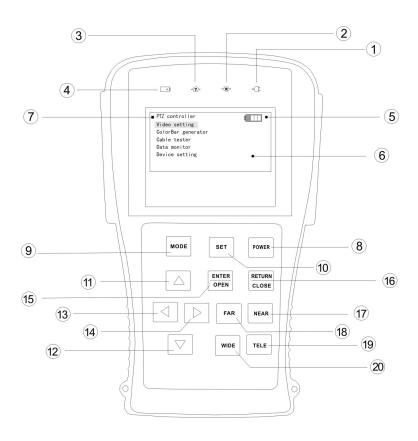


Instruction Manual (PN 84-887)



Neck Strap for CamView (PN 3206-95)

2.3 Controls and Indicators

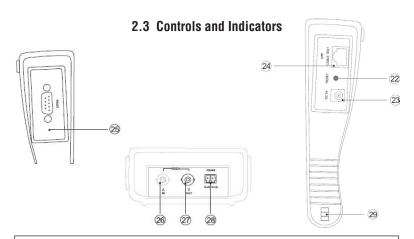


2.3 Controls and Indicators

1	- C:	AC Power Indicator. Lights when CamView is operating from AC power.
2	₩	Receive Indicator: Lights when PTZ signals are being Received.
3	企	Transmit Indicator: Lights when PTZ signals are being Transmitted.
4	+)	Charge indicator: Lights while battery is charging. Turns off when battery is fully charged.
5		Battery Life Indicator: Shows remaining battery charge. When charging, indicates "FULL" when completely charged.
6	Title Title Title Title	LCD Screen: Shows video images and On Screen Display functions.
7	Manual State of State	Menu: Shows available Functions, Settings, Modes, etc.
8	POWER	POWER Button: Press for 2 seconds to turn power on or off. A short press Hides or Reveals the PTZ controller menu.
9	MODE	MODE Button: Press momentarily to select one of the 6 available test or setting options from a drop-down menu.
10	SET	SET Button: Press momentarily to enter a test or setting mode, or press to enter a new value for a test or setting parameter.

2.3 Controls and Indicators

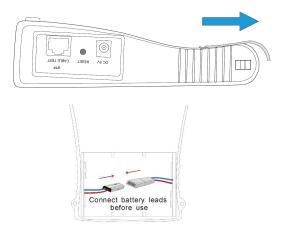
11		UP Button : Tilt the controlled camera 'up'. Navigate upward on a menu. Change a parameter value.
12		LEFT Button : Pan the controlled camera 'left'. Navigate left on a menu. Change a parameter value.
13	\triangleright	RIGHT Button : Pan the controlled camera 'right'. Navigate right on a menu. Change a parameter value.
14	igtriangledown	DOWN Button : Tilt the controlled camera 'down'. Navigate downward on a menu. Change a parameter value.
15	ENTER OPEN	ENTER/OPEN Button : Confirm the value or setting of various parameters. OPEN the camera aperture (iris).
16	RETURN	RETURN/CLOSE Button : 'Return' or 'cancel' while setting parameters. CLOSE the camera aperture (iris).
17	NEAR	NEAR Button: Adjust Focus for nearer objects.
18	FAR	FAR Button: Adjust Focus for farther objects.
19	TELE	TELE Button: 'Zoom In' on an object or scene.
20	WIDE	WIDE Button: 'Zoom Out' from an object or scene.



22	Press to Reset CamView to factory defaults.
23	External power jack (5V, 2A): Use only the provided power adapter.
24	UTP Cable Test jack (RJ-45): Use to test cables with RJ-45 plugs.
25	RS232 Jack: Use for connection to PTZ cameras requiring an RS-232 control signal.
26	Video input (BNC): Input for NTSC or PAL video signal from camera or other video device
27	Video output (BNC): Loopthrough from Video input (26) or NTSC / PAL Color Bar video output
28	RS485/422 Connector: PTZ control signal input/output. Connect to camera or other PTZ device.
29	Attachment point for neckstrap.

2.4 Connecting and Charging the Battery

The CamView is shipped with the battery disconnected to prevent any battery drain that may reduce the battery life. Prior to the use of the instrument, the battery wires inside the battery compartment must be connected together. Open the battery compartment. Observing the proper polarity (red wire to red wire, black wire to black wire), connect the battery wires and replace the cover on the battery compartment.



There is no need to unplug the battery if the CamView is being used regularly (at least once every few weeks). If the CamView will be unused for more than 1 month, unplug the battery for storage.

For first time usage, it is recommended that the battery be 'conditioned' by operating the CamView until it turns itself off. This will provide the best battery life in the coming months. If the Auto Power Off feature is activated, it may be necessary Disable it to allow the product to run until the battery is depleted.

2.4 Connecting and Charging the Battery Cont.

To turn the unit on, press POWER for about 2 seconds and release when the unit powers up. After depleting the battery, connect the supplied battery charger to the power jack (23). The red Charge Indicator Should turn on. Charge the battery until the indicator turns off. This could take 4 to 5 hours. When the Charge Indicator Turns off, the battery is approximately 90% charged. The charging time can be extended for about 1 hour to 'top off' the battery charge. To obtain the best battery life, limit charging time to about 8 hours. Leaving the battery on continuous charge may reduce the battery life.

 The CamView can be used while its batteries are being charged, however, the charging time will be increased.



If the CamView behaves abnormally, it can be reset to the factory default settings by pressing the RESET button (22).

3 Using the CamView

3.1 General Instructions

To turn the unit on, press for about 2 seconds and release when the unit powers up.

To turn the unit off, press | POWER | for about 2 seconds and release when the unit powers down. The unit will remember its Mode setting, and when next turned on, will be in this Mode.

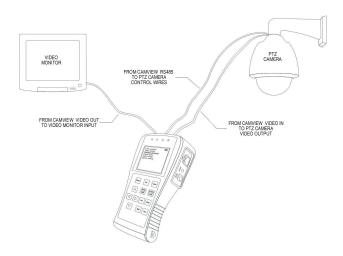
After the CamView is powered on, it will be in the Mode that it was in when last power off. To see a list of the different modes, press and release the button. The Mode Menu will display for a few seconds. While the Mode Menu is displayed, select a different Mode by pressing the button repeatedly until the desired Mode is highlighted on the Menu. You may also select a different Mode by pressing the or we buttons when the Mode Menu is displayed.

Once a Mode is selected, the ∇ 4 or the buttons may be used to change settings and alter parameters. If the PTZ Mode is selected. NEAR WIDE buttons directly con-TELE OPEN trol the motion and settings of the camera. Notice that the 4 indicator lights when any of these buttons are pressed in the PTZ mode. This shows that PTZ control signals are being generated at the PTZ Connector (28). When in the PTZ mode, the video input signal can be displayed in full-screen mode by pressing and releasing the Power button. To reveal the PTZ header bar

and battery indicator, press and release the |POWER| button again.

3 Using the CamView Cont.

Use the following diagram as a guide to connect the CamView to a PTZ camera.



Connect the video output of the camera to the Video Input of the CamView.

The Video Output of the CamView may be connected to the video input of another video monitor (such as the monitor in the video closet or the monitor at the guard station). The CamView usually operates in 'Loopthrough' mode, passing the Video Input signal to the Video Output connector.

Connect the PTZ control signal from the CamView RS485 or RS232 connector to the mating connector on the PTZ camera. Observe the proper polarity (D +/ A to D+ or A, D -/ B to D- or B).

Caution: Do not connect the CamView PTZ connector to anything other than a camera's PTZ connections. To do otherwise may damage the CamView.

3.2 Introduction to Menu & Functions

Pressing the Mode button reveals the main menu. By repeatedly pressing the button, the user can select any of the CamView's test functions or modes, such as: 'PTZ controller', 'Video setting', 'Colorbar generator', 'Cable tester', 'Data monitor', or 'Device setting'.



1. PTZ Controller (and Video Monitor)

This mode is typically used to display video images and to control or set parameters on a PTZ camera. A video signal connected to the CamViews Video Input will appear on the PTZ controller screen. If no video signal is applied, the screen will display "No video input". Basic PTZ camera functions (left, right, up, down, etc.)



can be controlled by pressing the CamView's buttons. To access PTZ communication parameters, speed adjustments, and presets, press the set button. When in the PTZ mode, the video input signal can be displayed in full-screen mode by pressing and releasing the power button. To reveal the PTZ header bar and battery indicator, press and release the power button again.

3.2 Introduction to Menu & Functions Cont.

2. Video setting

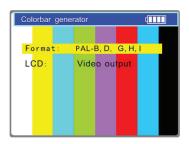
This mode is used to adjust the Cam-View's LCD Brightness, Contrast, and Color Saturation. If a video signal is applied to the Video Input connector, the video image will appear on this screen. If a video signal is not present, the screen will display "No video input".



3. Colorbar generator

The CamView contains a built-in Colorbar generator. Seven standard PAL and NTSC formats are selectable by using the and buttons.

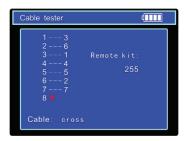
The LCD screen can be selected to display the Colorbar signal or a video signal applied to the CamView's Video Input.



4. Cable tester

The CamView can test cables consisting of 2 to 8 wires. The ends of the cable must be terminated in RJ-45 plugs to match the jacks on the CamView and the Remote Terminator. Ethernet LAN cables are commonly terminated in RJ-45 connectors. The screen to the right shows the test

results of a cable with 'cross' wires and an

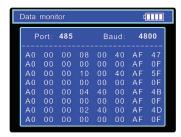


open wire on pin 8. The Remote is number 255 (This is the standard Remote provided with the CamView).

3.3 Video Monitor Mode/PTZ Controller Parameter Setting

5 Data Monitor

The CamView will display incoming PTZ signals. This allows the user to verify that the PTZ control wires have a PTZ signal present. This is useful to determine if a non-responsive PTZ camera is actually receiving a PTZ control signal.



6. Device setting (User Settings)

Auto poweroff: Disable or set time for auto power off.

Prompt sound: Turn 'keybeep' on or off. Language: Select English or Chinese. Brightness: Set menu brightness from 0 to 7



3.3 Video Monitor Mode (PTZ controller)

Press MODE to select 'PTZ controller'. The screen displays 'No video input' when a video signal is not applied to the CamView's Video Input connection. If a video signal is applied, it will appear on the LCD screen.



3.3 Video Monitor Mode/PTZ Controller Parameter Setting Cont.

3.3.1 Setting PTZ Parameters (Overview)

In the PTZ controller mode, press st to access settings for the PTZ parameters. Press △ or ▼ to move the yellow cursor, selecting the desired parameter. Press ▷ or ◄ to change the value of the parameter.

After setting the value of the parameter(s), press st to save the value(s) and exit.

Press RETURN to exit without saving.



A. Protocol

Move the cursor to "Protocol" and select the protocol used by the camera that will be controlled. See Specifications for a list of the available protocols.

B. Port

Move the cursor to "Port". Select the port on the CamView that will be used to communicate with the camera. RS485 and RS232 ports are available.

C. Baud

Move the cursor to "Baud". Select the same baud rate that the camera is set to. Baud rates available for selection: 150, 300, 600, 1200, 2400, 4800, 9600, 19200.

D. Address

Move the cursor to "Address". Set the value to the address of the camera to be controlled.

3.3 Video Monitor Mode/ PTZ Controller Parameter Setting Cont.

E. Pan speed

Move the cursor to "Pan speed". Select a value for the Pan speed from 0 to 63.

Note: The range of adjustment can change depending on the camera.

F. TiltSpeed

Move the cursor to "TiltSpeed". Select a value for the Tilt speed from 0 to 63.

Note: The range of adjustment can change depending on the camera.

G. Set ps (Setup Preset)

Move the cursor to "Set ps". Choose a number from 0 to 127 to identify the preset location.

H. Get ps (Go to Preset)

Move the cursor to "Get ps". Select a preset number that will be activated.

3.3.2 Setting PTZ Parameters (Details)

Camera Information

Detailed information about a PTZ camera must be known in order to set it up or test it. First, the PTZ protocol that the camera is set to must be known. Some cameras offer multiple protocols, and some manufacturers use the same protocol for all of their cameras. 'Pelco D' is a popular protocol used by many cameras and installers.

Most camera settings are determined by the installer. So a record must be kept of the settings, or the camera must be examined to determine the settings. Cameras often use a combination of Hardware and Software settings. Hardware settings are often set with DIP switches located in the base of the camera. Software settings can only be accessed after the camera is powered up and communicating with its controller.

The Baud Rate must be known. This is often determined by a DIP switch setting on the camera. If the CamView and the camera are not set to the same Baud Rate, they will not communicate.

The camera Address must be known. This is often determined by a DIP switch setting on the camera. If the CamView and the camera are not set to the same Address, they will not communicate.

The type of interface must be known. Most new cameras use RS-485. The CamView supports RS-232, RS-485, and RS-422 Simplex. The CamView has 2 port connections. The RS-232 interface is through a separate port on the side of the CamView. The RS-485 and RS-422 Simplex interface is on the top of the CamView. They share the same connector. When configuring the CamView to communicate with a PTZ camera, select the proper Port and connector (RS-232 or RS-485).

3.3.2 Setting PTZ Parameters (Details) Cont.

A. Connecting the CamView to an RS-485 PTZ Camera:

Connect the video signal from the PTZ camera to the VIDEO IN jack of the CamView. This is usually accomplished with a coaxial cable with BNC connectors. Sometimes, the camera uses a different connection (because BNC's are too large). Connect the PTZ wires from the camera to the RS-485 jack of the CamView using the provided PTZ test cable.

B. Setting the Communication Port:

With the CamView in the 'PTZ controller' mode, press set to access the PTZ settings. Then press or to move the cursor to "Port", and select 'RS485' by pressing or as required. Press ETUME to save the setting. Press ETUME to exit.

C. Setting the Address

With the CamView in the 'PTZ controller' mode, press set to access the PTZ settings. Then press or to move the cursor to "Address", and set the address to match the camera address by pressing or as required. Press FRITTEN to save the setting. Press RETURN CRUSE to exit.

D. Setting the Protocol

With the CamView in the 'PTZ controller' mode, press set to access the PTZ settings. Then press or to move the cursor to "Protocol", and select the camera's PTZ protocol by pressing or as required. Press FINTER to save the setting. Press RETURN to exit.

E. Setting the Bit Rate

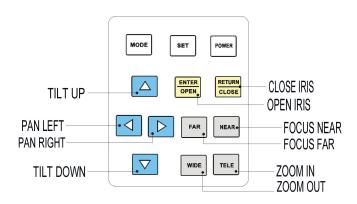
With the CamView in the 'PTZ controller' mode, press str to access the PTZ settings. Then press or to move the cursor to "Baud", and set the baud rate to match the camera by pressing or as required. Press ENTER to save the setting. Press RETURN to exit.

3.3.2 Setting PTZ Parameters (Details) Cont.

F. Testing PTZ communication

If the PTZ setup is correct, and the camera is operating properly, it should respond to the buttons on the CamView keyboard. Set the CamView to the 'PTZ controller' mode. The video image from the camera should be visible on the LCD screen. Press the buttons on the keyboard to verify that the camera responds to the CamView's commands.

Some cameras may not respond to the Aperture or Focus settings because these are automatically set by the camera. There may be a software setting in the camera menu that allows the camera to respond to manual Aperture and Focus commands. To allow manual operation of these settings, the camera menu must be accessed and the appropriate settings altered.



3.3.2 Setting PTZ Parameters (Details) Cont.

3.3.3 Using Presets

Presets' are 'pointing locations' stored in the camera. The camera may be pointed at any object within its field of view, zoomed in, and focused. By assigning a 'preset' to this location, the camera remembers this specific setup and can go to it on command.

To setup a preset:

While in the 'PTZ controller' mode, use the CamView keyboard to point the camera to the desired location, zoom in, and set the focus and aperture. Press

set to access the PTZ parameters, then use and to move the cursor to "Set ps". Chose a preset number (the number chosen must agree with available memory in the camera)... for example '10'. Use and to set the value to '10'. Press

to save the setting. Press

constitution. It is common for cameras to have from 20 to over 100 user settable presets.

To activate a preset:

3.3.4 Accessing a PTZ Camera Menu

PTZ cameras have many functions that can be accessed from their main menu. When the menu is accessed, the camera inserts the menu information in the outgoing video signal. This allows the user to see the menu on a video monitor (like the CamView) attached to the camera. If the camera overlays the menu with the camera image, it may be difficult to see some of the menu settings. In this case it is advisable to point the camera at a contrasting background before accessing the menu.

It is beyond the scope of this manual to give instructions on how to set the camera parameters. The method varies depending on the manufacturer and the camera. It is up to the user to understand the camera and its settings. The following is for illustration only. The main menu of the particular camera used as an example is accessed by preset '064'. Other cameras use a different preset number to access their main menu.

While in the 'PTZ controller' mode, press str to access the PTZ parameters, then use and to move the cursor to "Get ps". Select '064' by using and . Press street to activate the preset. The CamView screen should then display the camera's main menu.



Camera Menu (For reference only)

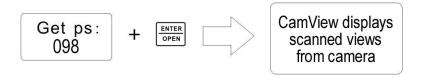
MAIN MENU

- 1. DISPLAY SETUP
- 2. CAMERA SETUP
- 3. CONTROL SETUP
- 4. CAMERA MASK SET
- 5. PROGRAM
- 6. PAL CAMERA
- 7. CAM DEFAULT SET
- 8. DOME RESET
- 9. EXIT

The meaning and available settings of the menu items are determined by the camera manufacturer. Please review the manufacturer's camera information for detailed instructions.

Auto Scan

Many PTZ cameras have an 'Auto Scan' function. This function usually commands the camera to scan (pan) back and forth repeatedly over a preset location. To access this function, the camera's Auto Scan command number must be known. For the camera in this example, the command is '098'. The camera may have more than one Auto Scan routine that can be accessed by using the appropriate command numbers.



It is often possible to set the details of the Auto Scan in the camera menu. For example, the endpoints for the left/right pan and the up/down tilt can usually be set. To stop the Auto Scan, send the camera to any new command... like momentarily press the button.

Other presets available in the example camera

Preset 033 Auto-rotate 180 degrees (flip)

Preset 034 Reset Pan / Tilt to the origin (zero)

Preset 096 Tour 1

Preset 094 Day / Night mode

3.4. Video Setting

This mode is used to adjust the Brightness, Contrast, and Color Saturation of the video image. If a video signal is applied to the Video Input connector, the video image will appear on this screen and a message will indicate if the video signal is PAL or NTSC format. If a video signal is not present, the screen will display "No video input".



'Brightness' can be varied from -128 to +127. A typical setting is +0.

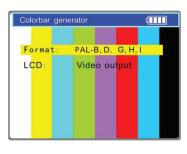
'Contrast' can be varied from -128 to +127. A typical setting is +40.

'Saturation' can be varied from -128 to \pm 127. A typical setting is \pm 40.

Use the button to select the 'Video Setting' mode. Adjust the video settings using the desired parameter and set its value

3.5. ColorBar Generator

The 'Colorbar generator' can generate a colorbar signal in 7 different video formats. Select the format appropriate for the video equipment to be tested. In the USA, the common format is NTSC-M (RS170A). The colorbar video signal can be used to test the connection between a camera and a monitor or other video equipment. By connecting the CamView



to the video cable at the camera, and generating a colorbar signal, the colorbar image should appear on the monitor at the far end of the cable. Failure to appear on the monitor, with good color, brightness, and contrast, indicates a problem with the interconnecting cable or the monitor itself. The colorbar can also be used as a test signal for a video recorder..... verifying that video can be recorded and played back with acceptable quality.

In the 'Colorbar generator' mode, the LCD screen can be selected to display the Colorbar signal or a video signal applied to the CamView's Video Input.

- Use the MODE button to select the 'Colorbar generator' mode.
- Use \(\lambda \) and \(\backsquare \) to select the desired video format. NTSC-M (RS170A) is usually used in the USA. The Colorbar image will display on the LCD.
- If the user prefers to see the image from the Video input, use \(\triangle \) and \(\triangle \) to select the 'LCD' setting, then use \(\triangle \) and \(\triangle \) to select 'Video output' (Colorbar) or 'Video input' (signal applied to the CamView's Video input). If a video signal is not present at the Video input, the LCD will display 'No video input'.

When the LCD is selected to 'Video input', the CamView continues to output the Colorbar signal from its Video Out connector.

3.6 Cable Testing

The CamView can test cables consisting of 2 to 8 wires. The ends of the cable must be terminated in RJ-45 plugs to match the jacks on the CamView and the Remote Terminator. Ethernet LAN cables are commonly terminated in RJ-45 connectors.

Use the button to select 'Cable tester'. Connect one end of the cable to be tested to the RJ-45 connector on the side of the CamView. Connect the other end of the same cable to the Remote Terminator. View the test results on the 'Cable tester' screen.



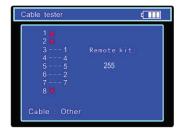
A good 'straight-through' LAN cable will test as shown. The straight-through cable is identified as a 'Pin to Pin' cable connected to Remote 255.



A standard LAN 'crossover cable' will display like this:

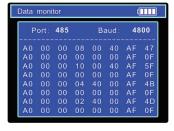


Shorted or Open wires are indicated by a red 'X' on the screen. The cable in the following example is miswired and has Opens or Shorts on wires 1, 2, and 8.



3.7. Capturing PTZ protocol

The CamView can view PTZ codes using its 'Data monitor' mode. This allows the user to verify that the PTZ control wires have a PTZ signal present. This is useful to determine if a non-responsive PTZ camera is actually receiving a PTZ control signal. The actual codes are generally meaningless to the average user. There is little chance of



decoding their meaning without in-depth knowledge of the PTZ coding scheme. What's important is that the PTZ codes are present in the PTZ control wires connected to a PTZ camera

Use the <code>_mooel</code> button to select 'Data monitor'. The 'Data monitor' screen will appear, showing the current Port and Baud settings. If these do not agree with the Port on the CamView being used for the test, or the Baud Rate of the PTZ signal, the settings must be altered so that they do agree. If the settings are OK, observing the proper polarity, connect the CamView's PTZ connector to the wires to be tested. If PTZ signals are present, a display similar to that shown will appear. The display may update periodically and the values may change. If no PTZ data appears on the LCD, reverse the polarity of the PTZ connection. If data then appears, note the polarity of the PTZ wires. They must be connected to the PTZ camera in the correct polarity, or the camera may not respond to PTZ signals.

If the CamView's 'Port' or 'Baud' needs to be changed, press set these settings. 'Port' will be accessed first. Use the and buttons to select the correct port. To save the setting and move on to changing the 'Baud', press set again, then use the and buttons to select the correct baud rate. To save the setting press set.

3.8. Device setting (User Settings)

Use the Mode button to select 'Device setting'. To change any of the settings, use of or to move the cursor to the desired item, then alter its value using the or buttons.

The new values must be saved in order to take effect. If you alter any values, a message will appear at the bottom of the screen reminding you to press ENTER OPEN to apply the changes. Or the changes may be canceled by pressing the RETURN button.



3.81 Auto poweroff

The user may set a length of time, in 5 minute increments up to 60 minutes, during which the CamView will operate normally, but after which the product will turn itself off. If any button on the CamView is pressed, the 'time-out' is reset. This feature is intended to preserve the charge on the battery if the product is unused for some period of time. The 'Auto poweroff' feature can be Disabled if desired.

Use or to move the cursor to 'Auto poweroff'. Then use or to select the desired 'time-out' interval. Select 'Disabled' to allow the CamView to run continuously. 'Apply' the change by pressing FINTER |

3.8.2 Prompt sound

The 'Key Beep' can be turned on or off.

Use or to move the cursor to 'Prompt sound'. Then select 'Off' or 'On' using the or buttons. 'Apply' the change by pressing FINTER OFF.

3.8.3 Language

English or Chinese can be selected as the operational language for the CamView. Use \triangle or \bigcirc to move the cursor to 'Language'. Then select 'English' or '*Chinese Symbols*' using the \bigcirc and \bigcirc buttons. 'Apply' the change by pressing \bigcirc ENTER \bigcirc OPEN \bigcirc .

3.8.4 Brightness

The brightness of the menus can be set as desired.

Use \triangle or ∇ to move the cursor to 'Brightness'. Then select a brightness from 0 to 7 using the \square and \square buttons. 'Apply' the change by pressing \square

4. Specifications

Video Monitor

Formats Supported NTSC and PAL (Auto Selected)

Display 2.6 inch TFT-LCD ,960 x 240 resolution

Display Adjustments Brightness, Contrast, Saturation (Color Level)

Connections 1 BNC Video Input, 1 BNC Video Output

(Loopthrough)

Video Input Level 1.0 Vp-p into 75 Ohms

PTZ controller

Communication RS232, RS422 simplex and RS485

PTZ Protocols Supported Pelco D, Pelco P, YAAN, YAAN-O, Samsung,

Panasonic, Lilin-FAST, Lilin-MLP2, Molynx, Minking A01, AD, Fastrax, CBC, LC-NEW, WV-CS850, SONY-EVI, LG-MULTIX, Da Hua,

PEARMAIN, Minking B01, ALEC

Address Range 0 to 254

Baud Rates 150,300,600,1200,2400,4800,9600,19200bps

Connections RS232: 15 pin D-sub

RS422 and RS485: Alligator clips on provided

adaptor cable

Colorbar Generator

Pattern 8 vertical color bars. White, Yellow, Azure, Green,

Magenta, Red, Blue, Black.

Formats Supported PAL-B,D,G,H,I; PAL-M; PAL-N (Arg.); PAL-N

(non Arg.); NTSC-M (CCIR601); NTSC-M (Japan);

NTSC-M (RS170A)

Connection 1 BNC Video Output Video Signal 1.0 Vp-p into 75 Ohms

4. Specifications Cont.

RJ-45 CABLE TEST

Tests Performed Tests 2 to 8 conductors for Opens, Shorts,

and Miswires.

Connections Female RJ-45 on CamView, Female RJ-45

on Remote. Tested cable must have male

RJ-45 connectors on both ends.

Indications Pin to pin connections displayed,

Opens and Shorts indicated with a red 'X'.

PTZ data Capture and display

Test Performed Captures and displays PTZ data from

sending device.

Connections RS232: 9 pin D-sub (DB9)

RS422 and RS485: Alligator clips on

provided adaptor cable

Settings Port selection and Baud rate

POWER

AC Adaptor/Charger Input: 100 to 240VAC, 50/60Hz, 0.30A,

American Blade

Output: DC5V / 2A, 5.5mm x 2.1mm coaxial,

center positive

Battery Built-in 3.7V Lithium polymer battery, 2000mAh Charging Time Approximately 4 hours for 90% charge (the Char

Approximately 4 hours for 90% charge (the Charge indicator LED turns off). Additional 1 hour for full

charge. Limit charging time to 8 hours for best

battery life.

Operating time on full

battery charge Approximately 11 hours

Auto Poweroff Selectable in 5 minute increments from 5 min to

60 min. Can be disabled.

4. Specifications Cont.

Environmental

Working Temperature -30F to 160F Working Humidity 0%-90% RH

Physical

Dimensions 2" x 4" x 6"

Weight 10oz (CamView only)

Certifications CE and FCC

Triplett Product Return Instructions

In the unlikely event that you must return your Triplett equipment for repair, the following steps must be taken.

- Call 1-800-TRIPLETT to obtain a Return Material Authorization (RMA) number from Customer Service.
- 2) Enclose a copy of the original sales receipt showing date of purchase.
- 3) Clearly print the RMA number on the outside of the shipping container.
- 4) Return to: Triplett / Jewell Instruments

850 Perimeter Road Manchester, NH 03103 ATTN: Repair Dept.

Triplett One Year Limited Warranty

Triplett warrants instruments and test equipment manufactured by it to be free from defective material or workmanship and agrees to repair or replace such products which, under normal use and service, disclose the defect to be the fault of our manufacturing, with no charge within one year of the date of original purchase for parts and labor. If we are unable to repair or replace the product, we will make a refund of the purchase price. Consult the Instruction Manual for instructions regarding the proper use and servicing of instruments and test equipment. Our obligation under this warranty is limited to repairing, replacing, or making refund on any instrument or test equipment which proves to be defective within one year from the date of original purchase.

This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries and fuses, not of our manufacture used with this product are not covered by this warranty.

To register a claim under the provisions of this warranty, contact Triplett's Customer Service Department for a Return Authorization Number (RMA) and return instructions. No returned product will be accepted without an RMA number. Upon our inspection of the product, we will advise you as to the disposition of your claim.

ALL WARRANTIES IMPLIED BY LAW ARE HEREBY LIMITED TO A PERIOD OF ONE YEAR FROM DATE OF PURCHASE, AND THE PROVISIONS OF THE WARRANTY ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES EXPRESSED OR IMPLIED.

Triplett One Year Limited Warranty Cont.

The purchaser agrees to assume all liability for any damages and bodily injury which may result from the use or misuse of the product by the purchaser, his employees, or others, and the remedies provided for in this warranty are expressly in lieu of any other liability Triplett may have, including incidental or consequential damages.

Some states (USA ONLY) do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. No representative of Triplett / Jewell Instruments or any other person is authorized to extend the liability of Triplett in connection with the sale of its products beyond the terms hereof.

Triplett reserves the right to discontinue models at any time, or change specifications, price or design, without notice and without incurring any obligation.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.