TRIPLETT

BR750
High Definition Videoscope

$C\epsilon$

Introduction

Congratulations on your purchase of the Triplett Model BR750 Video Scope. The Video Scope is a compact handheld instrument that allows the user to view hard to reach spaces that could not normally be seen when connecting with camera probe. This Video Scope is supplied in a sturdy carrying case and consists of a display unit, insertion tube, main adapter and side view adapter. The display unit, with a 5" wide angle TFT LCD screen, has the capacity of viewing, storing and reviewing photos and video images. Images can also be displayed directly on a TV screen or stored and transferred to a PC for viewing later. The display unit is powered by rechargeable Li-polymer batteries and a 5V charger is included.

Safety

Warning

1. Do not modify or disassemble the unit.
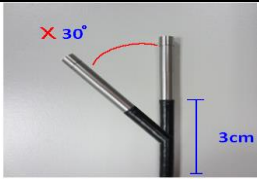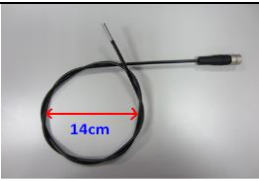2. Do not use this item in explosive atmospheres.

Caution
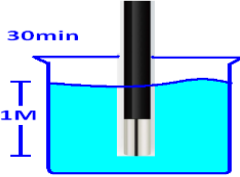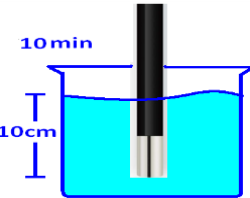
1. Keep the device out of the reach of children.
2. Do not look directly into the objective lens at the end of the insertion tube, your eyesight may be seriously damaged.
3. Do not forcibly bend, twist or elongate the insertion tube.
4. Strong impact on the device may result in the breakage of the objective lens (made of glass) at the tip of the insertion tube.
5. Do not use or store the device at a temperature higher than 60 °C or lower than -20 °C.
6. Don't use the device in the direct sunshine.
7. Store the device in a dry and adequately ventilated environment.

8. Keep the device away from acid or alkaline solutions, oil or petrol, and do not use it in an atmosphere containing their vapors.

9. Do not remove the SD Memory Card while data is being saved to the card. This may cause the data to be lost or the card to be damaged.

⚠ *Warning Notice for Insert Tube*

1	DO NOT bend the tube over 30°angle.	
2	DO NOT bundle the insert tube less than a 14cm diameter circle.	
3	DO NOT bend the tube after installation.	

4	DO tighten the screw for all accessories before use. .	
5	Prohibited of high temperature access for the tubes, the maximum working temperature shall not exceed 65°C.	
6	Prohibited of collision or any impacts on the front tips.	
7	DO NOT immerse Insert Tube deeper than 1M depth and over 30 minutes.	
8	DO NOT immerse Insert Tube deeper than 10cm depth and over 10 minutes besides water. (Such as lubricant oil, gasoline, etc.)	

Meter Description

Parts and function
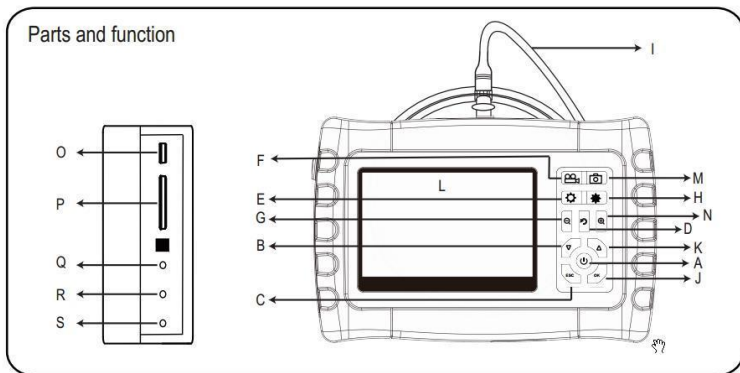
		REC
A. POWER button	G. Zoom out	M. button
		LED brightness
B. DOWN button	H. increase	N. Zoom in
C. Escape	I. Insertion tube	O. USB Port
D. Mirror Image & Rotate	J. OK button	P. SD Slot
LED Brightness		
E. Decrease	K. UP button	Q. Video Out
		Reset
F. PHOTO button	L. Display unit	R. Button
		S. DC In

Preparation for Use

On first use it is important that the
SD card is inserted as shown.
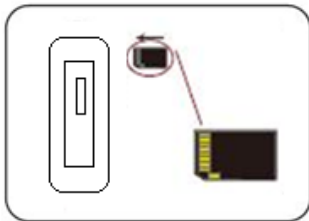
Connect the insertion tube to the display
Unit as shown in the figure and
tighten
the locking collar:
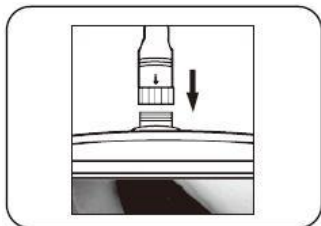
Press the POWER button for 3-5
seconds to turn the display unit
on.
The Start-up screen is shown
briefly
followed by the status screen for
five
seconds.

| 2011/01/04 | 10:08:16 |
| | x1.0 |

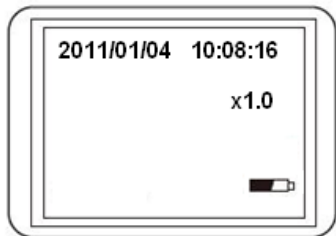The status screen shows the capacity of the SD card and the internal battery If the Video Scope has been stored for a long time then the display might not turn on. The most likely cause is that the battery has run out. Please use power adapter to re-charge the battery.

Directly on the screen, a "live" picture can be seen. This is the camera mode It is strongly advised to properly set-up the Video Scope before first use. The indexing of saved photos and video is based on date and time only. Other parameters, if set before first use, can make the operation of the Video Scope easier in the future. Press POWER button for 3-5 seconds to turn the display unit off

Operation

Menu setup
• Switch the unit on. Ensure that camera mode is active (i.e. a "live" picture can be seen)
• Press the OK button to access the menus. Use the UP or DOWN button to select the
menu item. Press OK to confirm.

The options displayed are as follows;
- Delete All
- Video Output
- Date / Time setup
- Language
- Video Format
- Auto Power off

Delete All
Take care in selecting this option, as everything will be deleted from the SD card!

Navigate to DELETE ALL in the menu, press the OK button. Select YES or NO using the
UP or DOWN buttons. Confirm with the OK button.

Video Output

This function allows live pictures or recorded photos and videos to be displayed on a
TV screen or beamer. First make sure that the Video format is set correctly to the used
TV system (PAL or NTSC). (See the Menu set up section.) Connect the scope video cable to the display unit TV out jack. Ensure that the other end of the video cable is well connected to the TV or beamer.
Press the OK button to select menu options, select Video Output and press the OK button.
The scope unit screen will turn black and the display will be shown on the TV. You can
transfer the screen back to the display unit by selecting the same function.

Date/Time Setup

Press UP button & DOWN button to select year/month/day or hour/minute/second. Press
PHOTO button to increase the value and the REC button to decrease
the value
The date
and time
can be
displayed
in the
preview

MANUAL
DELDTE ALL
VIDEO OUTPUT
DATE/TIME SETUP
LANGUAGE
VIDEO FORMAT
AUTO POWER OFF

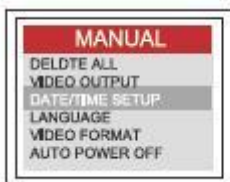| TIME SETUP |
| --- |
| 2000/01/101 |
| 10:22:22 |
| DISPLAY OFF |

image mode. Use either the PHOTO or REC button to toggle between display "ON" and "OFF" Confirm selection and exit menu by pressing OK.

Language

Navigate to LANGUAGE in the
menu, press the OK button.
Select the required language
using the UP or DOWN buttons
and confirm with the OK button.

Video Format

Navigate to VIDEO FORMAT in the menu, press the OK button.
Select the required video
format (NTSC or PAL) using the UP or DOWN buttons. Confirm with
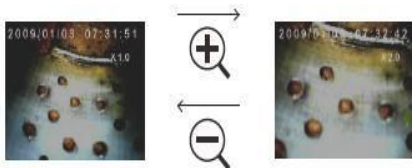the OK button.

Auto Power Off

Navigate to AUTO POWER OFF in the menu, press the OK button.
Select the required
auto power off time (5, 10, 15, 30 minutes or Disable) using
the UP or DOWN
buttons.
Confirm with the
OK button.

Digital Zoom

The picture in preview
mode could be magnifying
by press Zoom in button
and Zoom out button back
to normal.

LED Adjustment

The LED Adjustment button is located in the function key board, designed for user adjusting the brightness of LED to choose a suitable illumination condition for different environment.

H. LED brightness increase — ☼ ☀ — E. LED brightness decrease

Mirror / Reflecting Object Surface

When press ↻ button, you will get a mirrored image to original image. The phenomenon is shown as follows:

Press ↻ button first time:

Original image

Horizontal

Press button second time:

Original image

Folding

Press button third time:

Original image

Vertical

Snapshot and Recording Functions

Snapshot
In Camera mode, press the PHOTO button to take a photo.
The photo is stored to the SD card in jpg format with a file
name of running number. For
example IMG00001.jpg.

Users can capture the picture that they wanted during the video playing and recording by
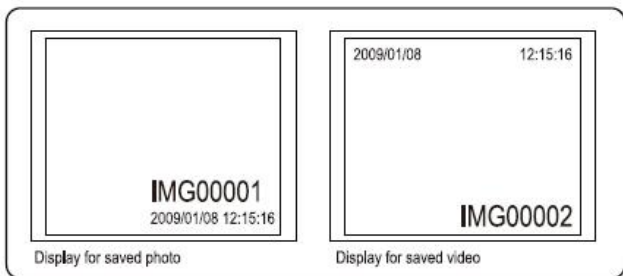pressing the PHOTO bottom

Recording

In Camera mode, press the REC button to take a video. The video icon is shown in the
top right corner. To stop recording, press the REC button again. The video icon disappears. The display reverts to preview mode. The video is automatically stored to the SD card in asf format with a file name of running number. For example IMG00002.asf.

Snapshot While Recording

"SWR" function allows user to take photo snap-shot while recording or playback the video.

Surfing mode

In the camera mode, press the UP or DOWN key, the last photo or video will be displayed.
Press the UP or DOWN keys to navigate to the photo or video to be viewed.

IMG00001	2009/01/08 12:15:16
2009/01/08 12:15:16	IMG00002
Display for saved photo	Display for saved video

To play the video, press the REC button. To revert to preview mode, press the ESC button

To delete a saved photo, press the OK button while it is displayed.
To delete a saved video,
make sure the video is not in play mode, press the OK button. A delete menu will show.
Toggle between the Yes and No options using the UP and DOWN buttons. Press the OK
button to confirm.

Photo Compare Function

A build-in photo compare function compares two photos on screen at the same time, allow user to see the difference at inspection site without using computer software.

In the surfing mode press ⊕ to select first photo, press UP/DOWN

buttons again to find second photo and press ⊖, to start compare

press [↺] button.

Transferring Photos and Videos to a PC

The computer must be running MS Windows™ 2000 or later.
Turn the Video scope on. Connect the USB cable to the scope unit and the computer.
Look for the drive with the SD card files, this should look similar to the following figure:
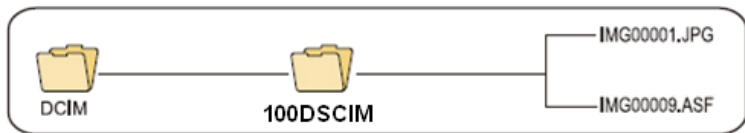
The files can then transferred and viewed on the PC. In general, on a PC running MS
Windows™ 2000 or later with Windows™ Media player, no special software is required
to display JPG and ASF files.

Troubleshooting

Q: No image on the display after turning the power on, what should I do?
A: Battery is exhausted. Connect the scope unit to the power adapter supplied and recharge
batteries. The Video scope can be used when connected to ac power.

Q: No image, only words on the LCD monitor after turning the power on, what should I do?
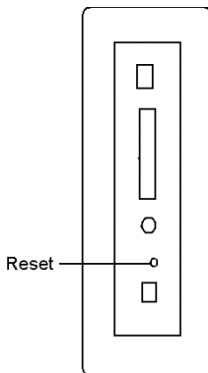A: Check that the insertion tube is correctly connected to the display unit.

Q: Unable to take photos or record video, what should I do?.
A: SD card not present, wrongly inserted, full or faulty. Check SD card is present, check SD
card insertion, check SD capacity, check if SD card is faulty (check if SD card works in
other devices).

Q: How to reset the unit?
A: When all functions freeze or fail, insert an insulated needle into the hole on the back of the main unit. The system will restart automatically.

Specifications

Display Unit

Power	DC5V
Display	5" TFT LCD Monitor 800 X 480 Pixels
Interface	Mini USB 1.1/ AV out
Battery (not user serviceable)	Rechargeable Li-Polymer Battery (3.7V)
Power adapter	100 - 240V AC in / 5.5V DC out.
Video Out Format	NTSC & PAL
Recording medium	SD card
Compression Format	MPEG4
Still Image Storage Format	JPEG (640 X 480)
Video Recording Format	ASF (640 X 480)
Working & Storage/Battery charging temperature range	-20 °C to 60 °C /0 to 40 °C
Functions	Snapshot, Video recording, Audio recording, Picture & video review on LCD screen, TV Out, transfer of picture & video from SD Card to PC

Camera

Image Sensor	CMOS
Resolution	640x480 pixels
Insertion Tube Length	1m (3.3')
Tube Type	Flexible
Camera Diameter	6mm (0.24")
Field of View	60o
Depth of View	20~60mm
Light Source	Four (LED) lamps with intensity control Dial on Left of Unit
Camera Tip Bending	All way joystick control joystick control (135 o to all direction)
Ingress Protection	IP67
Keys on Handle	Snap Shot, Record, Brightness Adjust, and rotation keys on handle for easy operation

Warranty

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors 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 are not covered by this warranty