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**VO Scope  
Video Stik  
Inspection Endoscope**



**Operating  
Instructions**

# VO Scope Video Stik

## Inspection Endoscope

Thank you for purchasing this product. We take pride in manufacturing to a high standard and, if used in accordance with these instructions, this product will provide you years of trouble free performance..

**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO COULD CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE USE.**

### GENERAL SAFETY INSTRUCTIONS

- \* DO NOT use video inspection scope if dropped and damaged.
- \* DO NOT operate near live electrical wires.
- \* DO NOT operate near moving parts such as pulleys, motors, gears, fans, etc.
- ✓ Be aware of your surrounding environment while using your inspection scope.
- ✓ Wear suitable clothing and be aware of hand placement and body position during inspection.

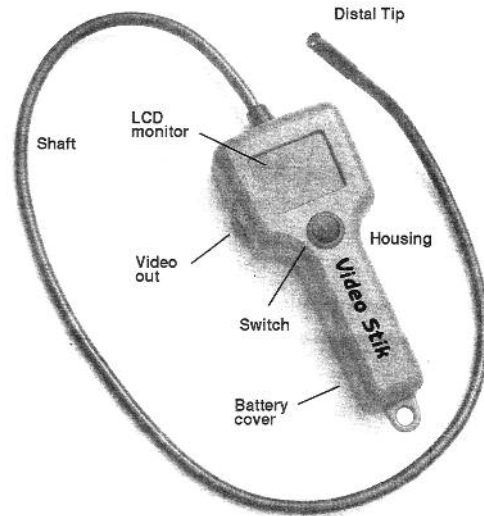
### INTRODUCTION

The Video Stik is for remote inspection of areas generally inaccessible to the naked eye. It comes with a distal video camera at the end of a water resistant shaft for internal inspection of engines, A/C systems, interior structures of walls and other industrial and similar applications. Imaging and illumination is provided by a full colour image sensor and dual solid state LEDs which are controlled by an on/off rocker switch. The 2.5" full colour LCD screen allows the user to observe live video from the distal camera. The unit is powered by 4x AA batteries. The Video Stik is shipped with a protective case for storage. Accessory Mirror allows user to see 90° to axis of the shaft. The Magnet accessory will pick up approx. 113g (¼lb).

### SPECIFICATIONS

Shaft length	Water resistant
Distal tip diameter	10.66mm maximum
w/ Accessories	11.68mm maximum
Viewing angle	55°
Viewing distance	10.16mm to infinity
Resolution	320 x 240 pixels
Viewing monitor	Colour 2.5" LCD
Video out port	RCA - NTSC signal
Shaft radius	63.5mm

Power	4x Alkaline AA batteries
Battery life	4 hours
Storage temperature	-20 to +70°C (-4 to +158°F)
Operating temperature	0 to 45°C (32 to 113°F)
Accessories	Mirror and Magnet
Warranty	1 year



### OPERATING INSTRUCTIONS

**CAUTION:** Do not use excessive force to insert or retrieve shaft from the equipment or areas under inspection.

**CAUTION:** Never use the distal tip to push against objects or to clear a path. This instrument is for remote viewing only.

**CAUTION:** Mirror and magnet accessories may detach if snagged or bumped abruptly.

**CAUTION:** The handheld monitor unit is not water resistant. The shaft and distal tip are water resistant (refer to cleaning and storage).

**DO NOT** bend any part of the shaft tighter than a 63.5mm (2.5") radius (127mm/5" diameter).

**DO NOT** insert the scope shaft and tip into locations where the temperature is greater than 45°C (113°F).

**DO NOT** vibrate, bang or drop your scope. It is not shock resistant.

**Operation** - Hold the unit by the housing and toggle the rocker switch down. This turns the distal camera, lighting and monitor on for viewing. Simply manipulate the shaft toward the area under investigation while viewing the monitor. The shaft can be formed to

manoeuvre into more complex paths.

**Mirror and Magnet Accessories** - To attach accessories, tilt clip end of accessory against recess of distal tip and press into place. Rotate 90° mirror for best view.

**Video out port** - The Video Stik provides an external NTSC video signal via an RCA phono jack. This signal can be utilised by a compatible monitor or recording device.

### MAINTENANCE INSTRUCTIONS

#### BATTERY REPLACEMENT

##### WARNING!

Make sure switch is in the off position prior to maintenance and/or battery replacement. Use caution when removing and re-inserting battery pack so as to not strain or pinch the connection leads. See Fig. 2

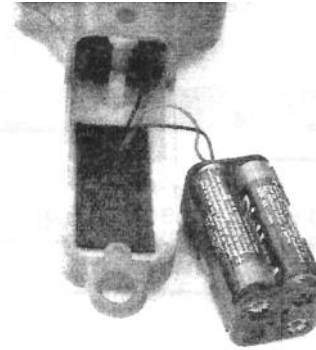


Fig 2

1. Remove the battery housing door with a Phillips screwdriver.
2. Tilt the battery pack up from the bottom and remove.
3. Un-clip the connector - if required - and replace batteries in the pack. Use 1.5V alkaline AA type batteries only.
4. Observe polarity as marked in battery holder.
5. Re-attach connector and re-insert battery pack into bottom of handle.
6. Re-assemble battery door. Do not over tighten screw.

#### CLEANING AND STORAGE

After each use:

- a. Wipe down the distal tip and shaft with a clean, dry cloth to remove fluids and residue.
- b. Gently use a cotton swab lightly dampened with isopropyl alcohol to clean glass distal window - Fig. 3.
- c. Gently clean the LCD screen with a dry cloth.

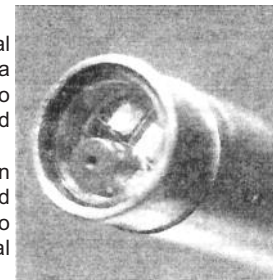


Fig 3

Only use a cloth lightly dampened with isopropyl alcohol if necessary. NEVER rub hard and NEVER

press on the monitor surface with a sharp object.

d. Remove batteries when cleaning and if scope is to be stored for long periods of time.

**NOTE:** Your inspection scope **MUST** be completely dry before returning it to the storage case.

### TROUBLESHOOTING

1. If images tend to be blurry and not in focus, clean the distal tip window as described above.
2. If the display monitor shifts in colour, loses colour or goes blank, change the batteries.

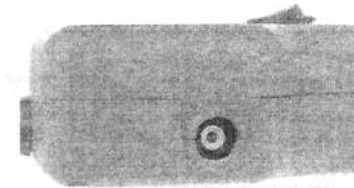


Fig 4



Fig 5

**NOTE:** It is our policy to continually improve our products and we reserve the right to update data, specifications and component parts without notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** 1 year from date of purchase against defects and workmanship when used in accordance with instructions. Warranty is void if unit is opened or tampered with other than stated in these instructions.