REED

Model BS-150
Video Inspection Camera

Instruction
Manual

Table of Contents

Safety

- Before operating this instrument, carefully read all safety information and specifications for the pinhole video

- This instrument meets European CE safety standards

- Consult professional instrument repair services for maintenance and repairs, do not attempt to handle them on your own

- Clean the camera after each use. Do not use detergents to clean this instrument

- When storing the instrument for a long period of time, remove the batteries to avoid battery fluid leaking and damaging the instrument

- The gooseneck angle should not pass 90° or it will lose it's flexibility

For service on this or any other REED product or information on other REED products, contact REED Instruments at info@reedinstruments.com.

Features

- Comfortable pistol grip design and forward facing controls make it easy to detect and diagnose the unreachable
- High visibility 3.2" colour TFT LCD monitor with 320x240 pixel resolution
- 3.2' flexible gooseneck imager head retains configured shape and is waterproof (IP67)
- Gooseneck is expandable up to 30' with the optional cable extensions
- High visibility 10° adjustable LED lighting
- Camera and video functions allows you to save high resolution JPG images and live video
- TV compatible
- Transfer files to a computer via USB cable and optional 2 GB SD memory card (Model BS-150-2GBSD)
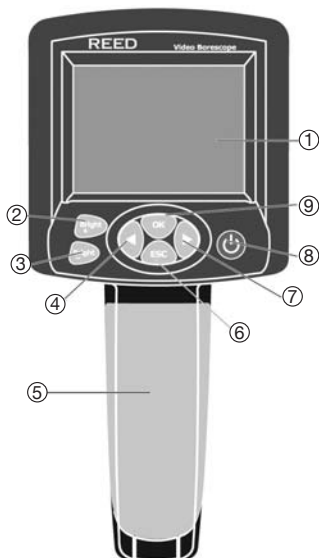- Rechargeable lithium-ion battery

Specifications

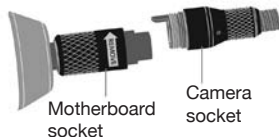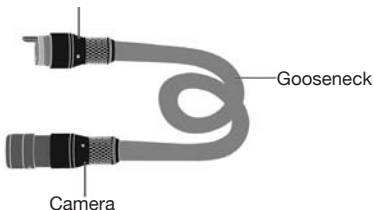|	
Viewing Distance:	15cm to 25 cm (5.9" to 9.8")
Viewing Angle:	0 to 180°
Camera Diameter:	17mm (0.66"); Length: 1m (39")
Photosensitive Devices:	1/4" CMOS
Sensor Pixel:	640 x 480
Max. Resolution:	320 x 240
Max. Frames:	30FPS/S
Median Colour:	24 bit
Focus:	Manual
File Format Compatibility:	MPEG4, 3GP, AVI, ASF
Image Format Compatibility:	JPEG
Camera Video Format:	3GP

SD Card Compatibility:	Max 8GB
Flash Compatibility:	Max 8GB
Working Voltage:	Li battery 3.7V/2000mA
Video Working Current:	Max. 595mA
Video Play Current:	230mA
Static Current:	Max. 20UA
TV-OUT:	PAL/NTSC system
Operating Temperature:	-10 to 60°
Storage Temperature:	-20 to 70°
Storage Humidity:	15 ot 85%RH
Testing Range:	5 to 15 cm
Data Output:	USB data cable and SD card
Power Supply:	3.7V, 2000mA, H battery (1860)
Dimensions:	240 x 100 x 160 mm (9.5 x 3.9 x 6.3")
Includes:	Video borescope, imager head, magnet, hook and mirror attachments, 3.7V lithium battery, DC power supply, USB cable, video output cable, user manual and hard carrying case
Optional Accessories:	2 GB SD memory card (Model BS-150-2GBSD),
	3' Cable Extension (Model BS-C3),
	6' Cable Extension (Model BS-C6),
	9mm Replacement Camera Head with 3' Cable (Model BS-15-9C3)

Instrument Description
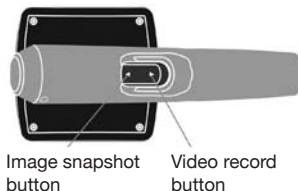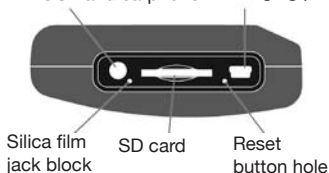
1 - 3.2" TFT LCD
2 - BRIGHT + Backlight Increase
3 - BRIGHT - Backlight Decrease
4 - ◀ Scroll to Previous Image
5 - Battery Cover
6 - ESC Exit
7 - ▶ Scroll to Next Image
8 - ⏻ Power ON/OFF
9 - OK

Connector with
motherboard socket

Gooseneck
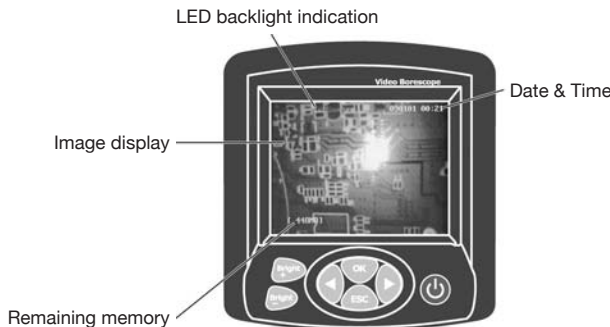
Camera

TV-OUT and earphone

USB port and
charging port

Silica film
jack block

SD card

Reset
button hole

Motherboard
socket

Camera
socket

Image snapshot
button

Video record
button

Operation Instructions

Hold the power button for three seconds to turn the instrument on.
Hold the power button for three seconds to turn the instrument off.

LED backlight indication

Date & Time

Image display

Remaining memory

CMOS Brightness Adjustment

When the instrument is in Camera mode, press the BRIGHT+ button to increase the backlight level, press the BRIGHT- button to decrease the backlight level. 10 is the highest brightness level.

Rotation of Images

When the instrument is in Video mode, press the ◀ and ▶ buttons to rotate the image currently selected by 180°.

Taking an Image

When the instrument is in Camera mode, press the Photo snap button to take and save the image.

Taking a Video

When the instrument is in Video mode, hold the Video record button for three seconds to begin recording video. You will see a flashing video symbol at the top/left of the display. Remaining memory will be displayed at the bottom/left. To end the recording, press the Video record button. The video will be saved automatically.

Menu options

To access the menu, press the OK button, select yes (use the ◀ and ▶ buttons), press the OK button again. The following Menu options will appear:

Language
Time
AutoOff
TV-OUT
Memory
Explorer
Set
Power mode

Battery level indication, Date & Time and SD card indication

Menu options

Operation options

How to navigate the menu:

Scroll between these menu options by using the ◀ and ▶ buttons. Use the OK button to select an option. Continue to use the ◀ and ▶ buttons to scroll through listed options. Use the OK button to select an option. The ESC button will you bring you out of the current screen and back one level.

Each menu selection

Language: Choose the language of your choice: English, German, Spanish, and French.

Time: Set the date and time by using the the ◀ and ▶ buttons to go to the data to be changed. Then use the Image snap and Video record buttons to change the data.

AutoOFF: Set the automatic power off feature of this instrument to either: Never, 3 minutes, 15 minutes or 60 minutes of non use.

TV-OUT: Insert the TV-OUT cable (Black end) into the TV-OUT plug of the instrument and plug the other end to the TV-VIDEO to the television. Yellow is the VIDEO, Red is the right channel and White is the left (or mono) channel. Select TV-OUT in the menu, press OK, select the NTSC or PAL options in accordance with your television standards and press OK. The display will turn Black, press the Operation button and the television should now display the image.

To go back to regular mode, return to the TV-OUT menu option, select the LCD Display option, press OK.

Memory: Use the photo snap and video record buttons to select from the two sub menus (Flash or SD). Then use the ◀ and ▶ buttons to scroll through listed options. Press OK to select. The Flash indicates the Capacity of space on the instrument, the Unused amount of space and the Used amount. The SD indicates the same when a SD card is being used.

*By formating the memory you will erase any images or video currently stored.

Explorer: Directory of images and videos currently store on the Flash or SD card.

Set: Use the photo snap and video record buttons to increase the value of the various settings.

Power Mode: This setting allows the display of the instrument to go to sleep while the instrument itself stays in operation. This saves battery power. Set this feature to either: Never, 30 seconds, 60 seconds, or 180 seconds of non use.