



Model R8500

Video Inspection Camera



Instruction Manual

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Table of Contents

Safety2

Features.....3

Instrument Description4

Specifications..... 5-6

Operating Instructions..... 6-13

Battery Replacement..... 14

Safety

Before first use please familiarize yourself with proper usage of this device. Keep these operating instructions for future reference.

Please note the following safety advice to avoid malfunctions, damage or physical injury:

- Never spill liquid of any kind on the video display and the main body of the unit.
- Do not immerse the camera and monitor in water. Store it in a dry place.
- The image head and the cable are water resistant when the unit is fully assembled.
- Do not use the camera if condensation forms inside the lens. Let the water evaporate before use.
- Turn off the unit when not in use.
- Remove the batteries before storing the unit for a long period of time.
- Use only the size and type of battery specified.
- Be sure to install the batteries with the correct polarity as indicated.

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Features

- Camera and video functions save high resolution images and video
- Comfortable pistol grip design
- High resolution 2.5" color LCD monitor
- 9mm waterproof (IP67) camera head
- Gooseneck cable retains configured shape
- Cable expandable up to 30 ft. (~9m) with extensions (optional)
- Four high visibility LED lights provide illumination in dimly lit environments
- Expandable memory up to 32Gb (SD card sold separately)
- 180° mirror rotation function
- Low battery indicator and auto shut off
- Includes 9mm camera head, magnet, hook and mirror attachments, batteries, USB cable and hard carrying case

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Instrument Description

1. 2.5" color LCD monitor
2. Power button
3. Increase brightness button (rotation)
4. Camera button
5. Brightness down button (zoom)
6. Menu/OK button
7. Battery compartment
8. Gooseneck cable
9. Camera and LED'S
10. Mini USB port
11. SD card slot
12. Camera cable connector



REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Specifications

Lens Sensor Resolution	640 x 480
Camera Diameter	0.35" (9mm)
Short Distance Focus	1.18 to 2.36" (3 to 6cm)
Depth of Field	10mm to infinity
Viewing Angle	0 to 180°
Display	2.5" Color TFT LCD
Display Resolution	480 x 240
Frames Per Second (FPS)	30
Standard Gooseneck/ Cable Length	39" (1m)
Rotate Display	Yes (180°)
Playback	Photo (JPEG) and Video (AVI)
Digital Zoom	4x
Memory	SD Card (up to 32Gb)
Time and Date Stamp	Yes
Data Output	USB / SD Card
LED Brightness Adjustment	Yes (4 white LEDs)
Low Battery Indicator	Yes
Power Supply	4 "AA" Batteries
Auto Power Off	Yes (after 10 minutes)
On-Screen Supported Languages	English, German, French, Spanish
Product Certifications	CE, RoHS, IP67 (Camera Head)
Operating Temperature	14 to 122°F (-10 to 50°C)
Storage Temperature	14 to 113°F (-10 to 45°C)
Operating Humidity Range	15 to 85%
Dimensions	6 x 3 x 2" (152 x 76 x 51 mm)
Weight	12.7oz (359g)

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Optional Accessories

9mm Replacement Camera Head
(R8500-RCH)
3m Cable Extension (R8500-3MEXT)
3.9mm Camera Head (R8500-3.9MM)
9mm Camera with 5m Cable
(R8500-5M9MM)
9.8mm Camera on 20m Cable Reel
(R8500-20M)
5.5mm Camera with Articulating Head
(R8500-ART)
16GB Micro SD Memory Card
w/ Adapter (RSD-16GB)

Operating Instructions

Power On/Off

Before using the unit for the first time:

- Ensure the time and date have been set
- Ensure the SD card is inserted



Press the power button to switch the device on.

The camera image will appear on the screen.



Battery indicator

Camera

Time/Date stamp



To switch the device off press the power button again.


REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Camera Illumination

The inspection camera is equipped with 4 dimmable LED lights in the camera head, which can be adjusted using the navigation/brightness keys.


Press  to increase brightness.

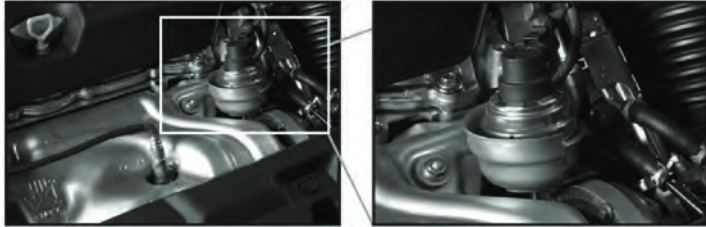
Press  to reduce brightness.

Rotating the display

Press and hold the  button for 1.5 seconds to rotate the display by 180°.

Zoom function

Press and hold the  button for 1.5 seconds to increase digital Zoom from x1 to x4.



Menu Options

MENU

The menu options are accessed by pressing the MENU/OK button.

To scroll up/down the menu press   keys.

To select a menu item press the camera button.

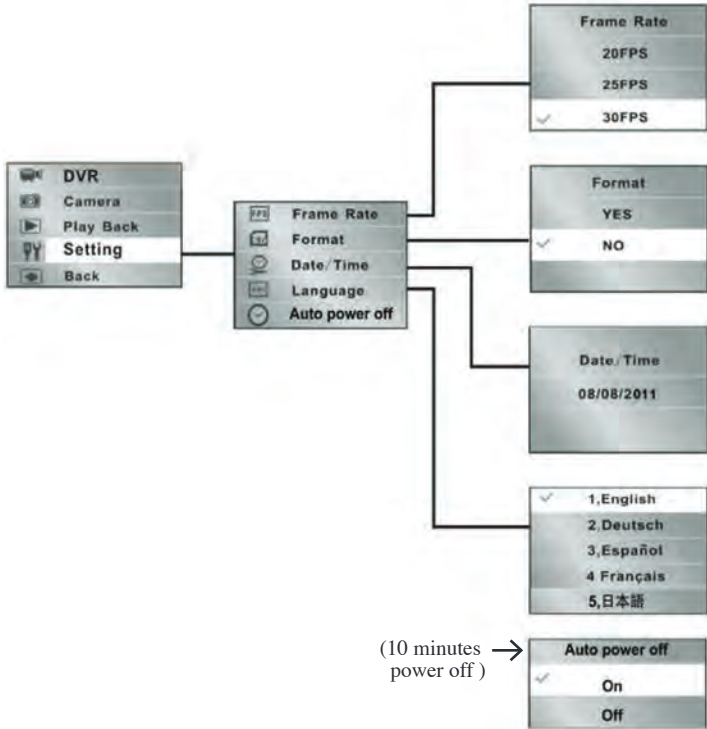
Select EXIT to return to the previous menu or exit the menu options.



REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Settings menu map





REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Language Selection



Allows the language to be set for the menu functions.



Use the navigation keys   to select from the language available.



Date / Time



Set Date / Time

Use the navigation keys   to edit the time and date.



Camera & Video Operation

Inserting SD card

Before using the camera or video function an SD card must be inserted into the card slot.

Please note the card must be inserted with contacts facing upwards.



REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

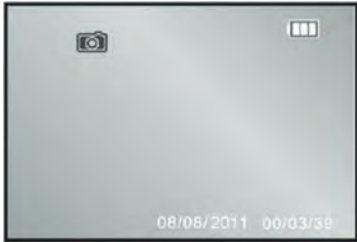
The screen will then show the SD card icon.



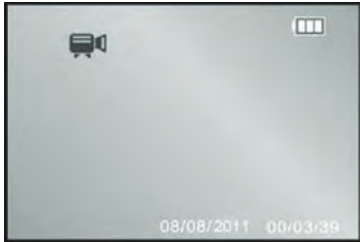
Camera



Press the camera button to take a picture.



DVR



REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com



Image Management

1. Push "MENU" button.



2. Scroll down and select "Playback".



3. Use the navigation keys   to choose the image you would like to delete.



REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

4. Press  then select "Delete Current".



5. Confirm by selecting "Yes".



Playback



Use the navigation keys   to select playback.

REED Instruments

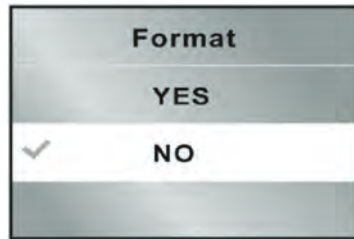
1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Formatting the SD card



Select 'Yes' to format all data on the SD card.

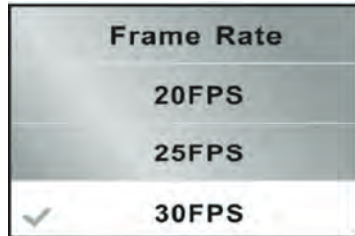
Select 'No' to exit without formatting.



Setting frame rate



Select between 3 different Frame Rates.



Transferring files to a computer



Connect the USB cable to the mini USB port and computer USB port. The computer will then detect unit as a removable disk. Files can now be copied to a computer as required.

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Battery Replacement

- 1. Remove battery cover.
- 2. Remove battery compartment and insert new “AA” batteries into battery compartment. Proper battery orientation is indicated on the battery compartment.
- 3. Reinstall battery compartment, battery cover and screw.



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

Notes _____

REED Instruments

1-877-849-2127 | info@reedinstruments.com | www.reedinstruments.com

Notes _____

Notes _____
