REED

Model R8500
Video Inspection Camera

Instruction Manual

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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.

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 video borescope inspection camera, 9mm camera head, Borescope, USB cables, mirror, hook, magnet, camera probe, batteries and hard carrying case

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
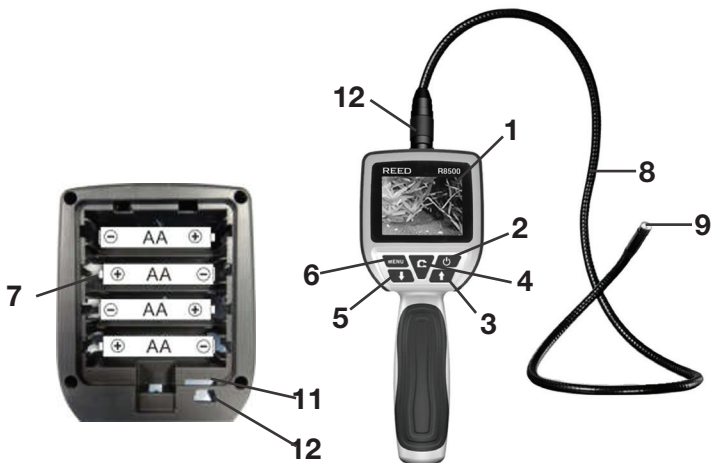
Specifications

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)

| 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)

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

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Time/Date stamp
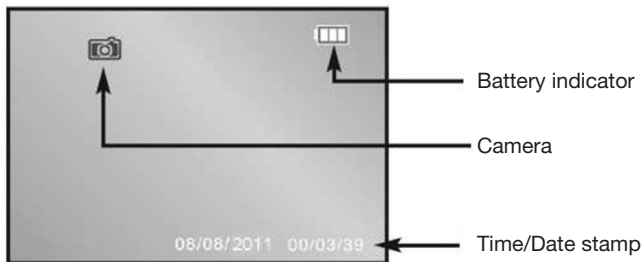
To switch the device off press the power button again.

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.
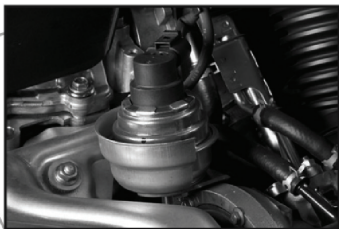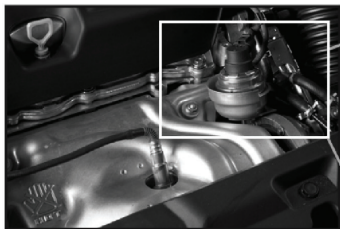
Press [↑] to increase brightness.

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.
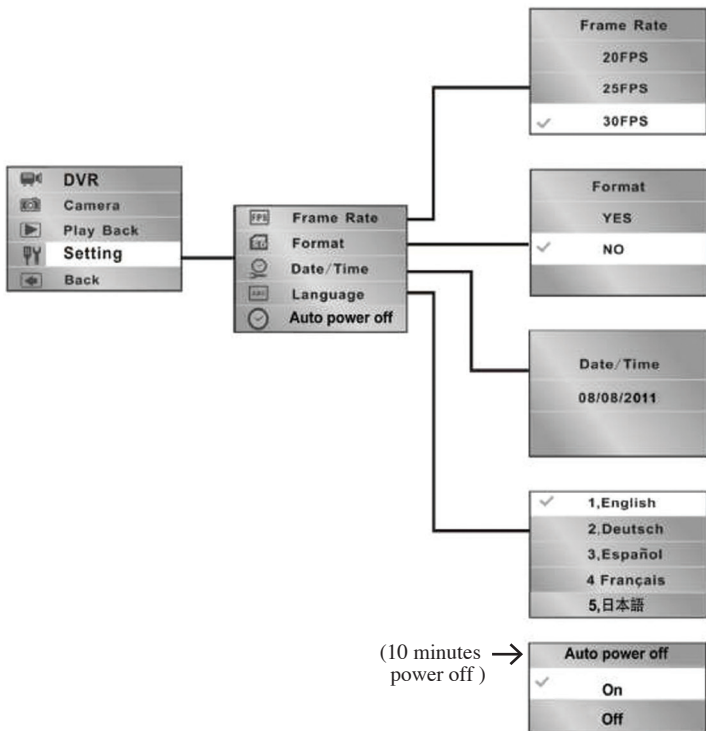
To scroll up/down the menu press [↓] [↑] keys.

To select a menu item press the camera button.

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

📺	DVR
📷	Camera
▶	Play Back
🍴	Setting
◀	Back

Settings menu map

		Frame Rate
		20FPS
		25FPS
✓		30FPS

DVR
Camera
Play Back
Setting
Back

FPS	Frame Rate
	Format
	Date/Time
	Language
	Auto power off

		Format
		YES
✓		NO

Date/Time
08/08/2011

✓	1.English
	2.Deutsch
	3.Español
	4 Français
	5.日本語

(10 minutes → power off)

	Auto power off
✓	On
	Off

Language Selection

Allows the language to be set for the menu functions.

Use the navigation keys ⬇️ ⬆️ to select from the language available.

✓	1,English
	2,Deutsch
	3,Español
	4 Français
	5,日本語

Date / Time

Set Date / Time

Use the navigation keys ⬇️ ⬆️ to edit the time and date.

Date/Time

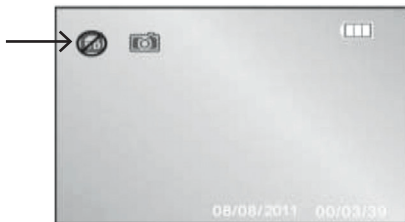08/08/2011

Camera & Video Operation

Inserting SD card

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

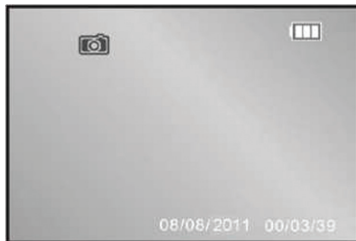Please note the card must be inserted with contacts facing upwards.

The screen will then show the SD card icon.

→

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Camera

Press the camera button to take a picture.

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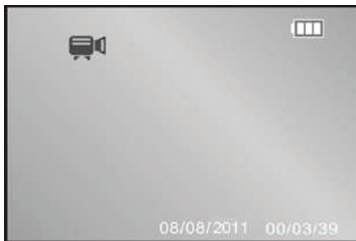
DVR

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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.

4. Press ⬛ then select "Delete Current".

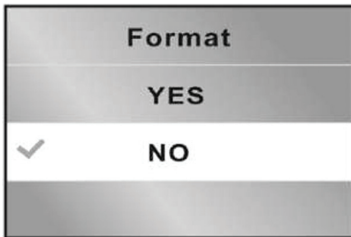

5. Confirm by selecting "Yes".

Playback

Use the navigation keys ⬇ ⬆ to select playback.

Formating the SD card

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

Select 'No' to exit without formatting.

Format
YES
✓ NO

Setting frame rate

Select between 3 different Frame Rates.

Frame Rate
20FPS
25FPS
✓ 30FPS
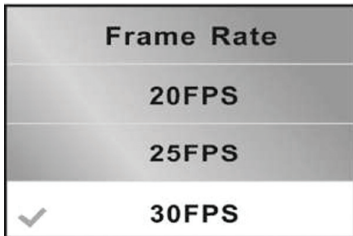
Transferring files to a computer
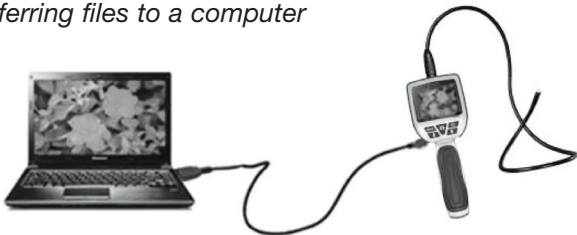
Connect the USB cable to the mini USB port and computer USB port. The computer will then detect unit as a removable disk. Files can now be copied to a computer as required.

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.

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