

Please visit our [www.heroninstruments.com](http://www.heroninstruments.com) for more information on the complete Heron product line.

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## HERON ALSO MANUFACTURES:



Operating and Maintenance Instructions  
Vertical Downhole Inspection Camera

## dipper-See EXAMINER





(Figure #1 DVR Operating Instructions)

### IR remote control



Buttons	Functions
	Up/volume up(during playback)
	Down/volume down(during playback)
	Left/fast backward(during playback)
	Right/fast forward(during playback)
OK	Set/record(during playback)
MENU	Menu
P/P	Play/pause/delete files
STOP	Stop
ESC	Return to last menu/playback

#### \*Use Remote Control to Operate DVR\*

- Use the  /  buttons to select options to be adjusted.
- To set up recording, select "MENU" button – set up all parameters.
- Press "OK" to set selection.
- Press "ESC" to return to last menu or exit preview mode.
- **NOTE: DVR MUST BE IN NTSC MODE.**
- After last item is set-up, all data will be saved and screen will return to preview mode.
- "OK" will start/stop recording.
- Select "PLAY" on remote to enter playback mode.
- "OK" will start and/or stop playback.

### DVR and Other Accessories

- **Make sure unit is off.**
- Insert SD card into DVR.
- Make sure wires are connected properly into DVR.  
**WARNING:** Wrong wire placement will damage the unit.
- Remove cap from connector on back of frame. **DO NOT** lose the cap, this protects the connector from moisture intrusion.
- Connect DVR to **dipper-See EXAMINER**:
  - Line up white dot on DVR male connector to the top of the connector on monitor housing.
  - Line up pins and tighten the connectors to provide a water tight seal.
  - Fasten DVR to nose bridge on the back of the monitor housing with the supplied Velcro.
- Push **POWER** button on.
- Push **MODE** button to activate DVR. The red LED light will be on if DVR is activated. If the viewing screen is blue, check all connections.
  - Record status will flash while recording, bottom left corner.
  - Record time is located top right corner of screen.
  - Date & time is located bottom right hand of screen, adjust information with remote control.

For full DVR instructions, refer to manufacturer's manual found at:  
[www.heroninstruments.com/product/dipper-see-examiner-vertical-downhole-inspection-camera/](http://www.heroninstruments.com/product/dipper-see-examiner-vertical-downhole-inspection-camera/)

 Download Manuals

dipper-See EXAMINER Manual

DVR User Manual 





# dipper-See EXAMINER Vertical Camera Instructions

## General Care of the dipper-See EXAMINER

The **dipper-See EXAMINER** is a robust and cost effective vertical downhole inspection camera. The **dipper-See EXAMINER** will provide years of reliable service when these recommendations are followed:

- Avoid sharp edged casing, use the tape guide on the unit to prevent damage to the tape.
- Take care to avoid tape becoming entangled with other equipment.
- Neatly rewind and clean the tape after each use.  
Refer to: Cleaning the **dipper-See EXAMINER**

**DO NOT** open monitor housing; warranty will be void.

**DO NOT** allow the tape to “freefall” down the well, it may become caught in other equipment or damage the lens.

**DO NOT** clean the lens with any alcohol based product.

**Warranty is conditional upon adherence to these guidelines.**

## Equipment Check

The **dipper-See EXAMINER** operates in two functions: Function one is for real-time downhole viewing. Function two, with the **MODE** button pressed (LED light on), records video and audio on the external **DVR**.

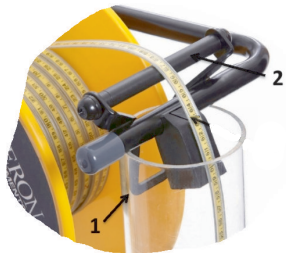
Before taking the unit into the field, carry out these simple tests:

- Make sure both batteries are fully charged.
- Connect battery to **dipper-See EXAMINER**.
- Check the condition of the camera probe:
  - Lens is clean
  - Connections are tight
  - No cracks in lens
  - No water in lens
- Test the **dipper-See EXAMINER** by turning the unit on.
- Ensure image is displaying properly (image will take up to 5 seconds to appear).
- If **DVR** is not being used, make sure **MODE** button is not pressed.

## Use in the Field

Familiarize yourself with all of the functions of the **dipper-See EXAMINER** before taking the unit out in the field.

- To use centralizer – large clip should be attached to the camera probe and the small clip to the tape. Adjust the width by repositioning the clip on the tape (**DO NOT** slide the clip up and down on the tape).



- To avoid damaging the tape on the side of the casing, hang the **dipper-See EXAMINER** on the casing (1) and run the tape over the guide on the frame leg (2). If you cannot hang the unit, drape a soft cloth over the edge of the casing, guide the tape down the center of the well away from the side.

- If using **DVR**, connect to unit (Use Operating Instructions provided with **DVR**) and push **MODE** button.
- Turn on the monitor by pressing the **Power** button.
- For video voice over, insert microphone to monitor house (bottom)
- Adjust the versatile positioning arm to view the **HD display screen** at different angles or lighting conditions, or use the provided Monitor Visor.
- Lower the camera probe.
- When camera probe hits water, shake camera to remove bubbles.
- Take depth measurement from the tape markings every meter or foot. Indicate findings through the audio attachment (microphone) or manually note the information.
- When rewinding the tape, use a clean dry cloth to remove as much water and debris from the tape and camera probe as possible.

## Cleaning the dipper-See EXAMINER

Always clean the **dipper-See EXAMINER** after use in the field to maintain optimal performance and extend the life of the unit.

Keep monitor and camera probe clean with cloth provided. The **dipper-See EXAMINER** may be cleaned with mild household dishwashing detergent (or Alconox) and rinsed with water. **IMPORTANT:** Remove battery before cleaning, **MAKE SURE DVR** cap is closed.

**DO NOT USE:** Alcohol or Chlorine or other harsh cleaners that may damage the lens and tape.

**DO NOT** remove camera probe for cleaning.

## Troubleshooting the dipper-See EXAMINER

**Q. Why won't the monitor turn on when POWER button is pushed?**

**A.** Make sure the battery is fully charged and connected.

**Q. Why does the monitor have a blue screen?**

**A.** Make sure probe is attached – check all connections.

**A.** Make sure the **MODE** function is not on. If on, press **MODE** button to turn off.

**Q. How do I start the DVR?**

**A.** Refer to DVR Operating Instructions (Figure #1).

Please go to [www.heroninstruments.com](http://www.heroninstruments.com) for more FAQ.

Contact Heron Instruments or your Heron Distributor if you cannot isolate the problem.

## Warranty (1 Year)

**Heron Instruments Inc.** warrants to repair or replace any defective equipment or part upon inspection by a **Heron** service technician. Warranty will be determined to our satisfaction to have a defect in workmanship or original material. The customer is responsible for all shipping fees to return the item to **Heron**.

This warranty shall not apply to damage of equipment caused by improper installation, usage, storage, alteration or inadequate care.

In no event shall **Heron** be held liable for any direct, indirect or consequential damages, abuse, acts of third parties (rental equipment), environmental conditions or expenses which may arise in connection with such defective equipment.

**Heron Instruments Warranty** coverage **does not** extend to the following:

- Tape
- Battery or charger used with the product
- Accessories provided with product
- Products used as rental equipment
- Products contaminated by material which are known to be hazardous and have rendered the unit unserviceable
- Parts failure due to neglect in cleaning or servicing
- Failure of parts caused by misuse

For service information:

Visit [www.heroninstruments.com](http://www.heroninstruments.com) under the CONTACT tab  
Email [service@heroninstruments.com](mailto:service@heroninstruments.com)  
Call 1-800-331-2032 or 905-628-4999

**Warranty is conditional upon adherence to these guidelines.**