


Changing/Installing Batteries

The micro CA-350 is supplied without the battery installed. If the battery indicator displays , the battery needs to be recharged. Remove the battery prior to storage.

1. Squeeze the battery tabs (See Figure 5) and pull to remove battery.



Figure 5 – Removing/Installing Battery

2. Insert contact end of battery into the inspection tool, as shown in Figure 5.

Powering with the AC Adapter

The micro CA-350 Inspection Camera can also be powered using the supplied AC Adapter.

1. Open the right side port cover (Figure 3).
2. With dry hands, plug the AC adapter into the outlet.
3. Insert the AC adapter barrel plug into the port marked “DC 12V”.



Figure 6 – Powering the Unit with AC Adapter

Installing the Imager Head Cable or Extension Cables

To use the micro CA-350 Inspection Camera, the imager head cable must be connected to the handheld display unit. To connect the cable to the handheld display unit, make sure the camera socket key and display unit socket slot (Figure 7) are properly aligned. Once they are aligned, finger tighten the knurled knob to hold the connection in place.



Figure 7 – Cable Connections

3' (90 cm) and 6' (180 cm) cable extensions are available to increase the length of your camera cable up to 30 feet (9 m). To install an extension, first remove the camera head cable from the display unit by loosening the knurled knob. Connect the extension to the handheld as described above (Figure 7). Connect the keyed end of the camera head cable to the slotted end of the extension and finger tighten the knurled knob to hold the connection in place.

Installing Accessories

The three included accessories, (Hook, Magnet, Mirror) all attach to the imager head the same way.

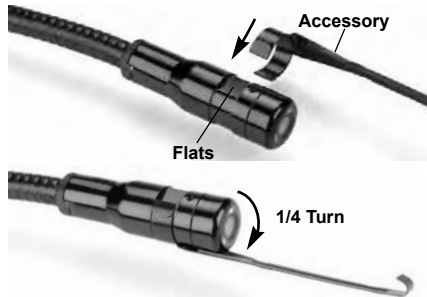


Figure 8 – Installing an Accessory

To connect, hold the imager head as shown in Figure 8. Slip the semicircle end of the accessory over the flats of the imager head. Then rotate the accessory a 1/4 turn to retain.

Installing SD™ Card

Open the left side port cover (Figure 4) to access the SD card slot. Insert the SD card into the slot making sure the contacts are facing towards you and the angled portion of the card is facing down (Figure 9). SD cards can only be installed one way – do not force. When an SD card is installed, a small SD card icon will appear in the upper left hand portion of the screen, along with the number of images or length of video that can be stored on the SD card.



Figure 9 – Inserting the SD Card

Pre-Operation Inspection

⚠ WARNING



Before each use, inspect your Inspection Camera and correct any problems to reduce the risk of serious injury from electric shock and other causes and prevent tool damage.

1. Make sure the unit is OFF.
2. Remove the battery and inspect it for signs of damage. Replace battery if necessary. Do not use Inspection Camera if the battery is damaged.
3. Clean any oil, grease or dirt from the equipment. This aids inspection and helps prevent the tool from slipping from your grip.
4. Inspect micro CA-350 Inspection Camera for any broken, worn, missing or binding parts or any condition which may prevent safe and normal operation.
5. Inspect the camera head lens for condensation. To avoid damaging the unit, do not use the camera if condensation forms inside the lens. Let the water evaporate before using.
6. Inspect the full length of the cable for cracks or damage. A damaged cable could allow water to enter the unit and increase the risk of electrical shock.

7. Check to make sure the connections between the handheld unit, extension cables and imager cable are tight. All connections must be properly assembled for the cable to be water resistant. Confirm unit is properly assembled.
8. Check that the warning label is present, firmly attached and readable (Figure 10).



Figure 10 – Warning Label

9. If any issues are found during the inspection, do not use the inspection camera until it has been properly serviced.
10. With dry hands, re-install the battery.
11. Press and hold the Power Button for one second. The imager lights should come on, then a splash screen will appear. Once the camera is ready, a live image of what the camera sees is displayed on the screen. Consult the *Troubleshooting* section of this manual if no picture appears.
12. Press and hold the Power Button for one second to turn camera OFF.

Tool and Work Area Set-Up

⚠ WARNING



Set up the micro CA-350 Inspection Camera and work area according to these procedures to reduce the risk of injury from electrical shock, entanglement and other causes and prevent tool damage.

1. Check work area for:
 - Adequate lighting
 - Flammable liquids, vapors or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The micro CA-350 Inspection Camera is not explosion proof and can cause sparks.
 - Clear, level, stable, dry place for operator. Do not use the inspection camera while standing in water.
2. Examine the area or space that you will be inspecting and determine if the micro CA-350 Inspection Camera is the correct piece of equipment for the job.
 - Determine the access points to the space. The minimum opening the camera head can fit through is approximately $\frac{3}{4}$ " (19 mm) in diameter for the 17 mm camera head.
 - Determine the distance to the area to be inspected. Extensions can be added to the camera to reach up to 30' (9 m).
 - Determine if there are any obstacles that would require very tight turns in the cable. The inspection camera cable can go down to a 5" (127 mm) radius without damage.
 - Determine if there is any electrical power supplied to the area to be inspected. If so, the power to the area must be turned OFF to reduce the risk of electric shock. Use appropriate lock out procedures to prevent the power from being turned back on during the inspection.
 - Determine if any liquids will be encountered during the inspection. The cable and imager head are waterproof to a depth of 10' (3 m). Greater depths may cause leakage into the cable and imager and cause electric shock or damage the equipment. The handheld display unit is water resistant (IP54) but should not be submerged in water.
 - Determine if any chemicals are present, especially in the case of drains. It is important to understand the specific safety measures required to work around any chemicals present. Contact the chemical manufacturer for required information. Chemicals may damage or degrade the inspection camera.
 - Determine the temperature of the area and items in the area. See *Specifica-*

tions. Use in areas outside of specification temperatures or contact with hotter or colder items could cause camera damage.

- Determine if any moving parts are present in the area to be inspected. If so, these parts must be deactivated to prevent movement during inspection to reduce the risk of entanglement. Use appropriate lock out procedures to prevent the parts from moving during the inspection.

If the micro CA-350 Inspection Camera is not the correct piece of equipment for the job, other inspection equipment is available from RIDGID. For a complete listing of RIDGID products, see the RIDGID catalog, online at RIDGID.com.

3. Make sure the micro CA-350 Inspection Camera has been properly inspected before each use.
4. Install the correct accessories for the application.