

SeeSnake® micro**REEL**®

APX® DSL**CA**

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*Original Instructions – English

Introduction

The warnings, cautions, and instructions discussed in this manual cannot cover all possible conditions and situations which may occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

Regulatory Statements

CE The EC Declaration of Conformity (999-995-232.10) will accompany this manual as a separate document when required.

FCC This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Safety Symbols

In this manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates information that relates to the protection of property.



This symbol means read the manual carefully before using the equipment. The manual contains important information on the safe and proper operation of the equipment.



This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.



This symbol indicates the risk of electrical shock.

General Safety Rules

⚠ WARNING



Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electrical shock, fire, and/or serious injury.

SAVE THESE INSTRUCTIONS!

Work Area Safety

- **Keep your work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate equipment in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Equipment can create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating equipment.** Distractions can cause you to lose control.
- **Avoid traffic.** Pay attention to moving vehicles when using on or near roadways. Wear high-visibility clothing or reflector vests.

Electrical Safety

- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electrical shock if your body is earthed or grounded.
- **Do not expose equipment to rain or wet conditions.** Water entering equipment will increase the risk of electrical shock.
- **Keep all electrical connections dry and off the ground.** Touching equipment or plugs with wet hands can increase the risk of electrical shock.

- **Do not abuse the cord.** Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, extreme cold, oil, sharp edges, and moving parts. Damaged or entangled cords increase the risk of electrical shock.
- **If operating equipment in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electrical shock.

Personal Safety

- **Stay alert, watch what you are doing, and use common sense when operating equipment.** Do not use equipment while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating equipment may result in serious injury.
- **Dress properly.** Do not wear loose clothing or jewelry. Loose clothes, jewelry, and long hair can be caught in moving parts.
- **Practice good hygiene.** Use hot, soapy water to wash hands and other body parts exposed to drain contents after handling or using drain inspection equipment. To prevent contamination from toxic or infectious material, do not eat or smoke while operating or handling drain inspection equipment.
- **Always use appropriate personal protective equipment when handling and using equipment in drains.** Drains may contain chemicals, bacteria, and other substances that may be toxic, infectious, and cause burns or other issues. Appropriate personal protective equipment always includes safety glasses and may include a dust mask, hard hat, hearing protection, drain cleaning gloves or mitts, latex or rubber gloves, face shields, goggles, protective clothing, respirators, and steel toed, non-skid footwear.
- **If using drain cleaning equipment and drain inspection equipment at the same time, wear RIDGID drain cleaning gloves.** Never grasp the rotating

drain cleaning cable with anything else, including other gloves or a rag which can become wrapped around the cable and cause hand injuries. Only wear latex or rubber gloves underneath RIDGID drain cleaner gloves. Do not use damaged drain cleaning gloves.

Equipment Use and Care

- **Do not force equipment.** Use the correct equipment for your application. The correct equipment does the job better and more safely.
- **Do not use equipment if the power switch does not turn it on and off.** Any equipment that cannot be controlled with the power switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack from the equipment before making adjustments, changing accessories, or storing.** Preventive safety measures reduce the risk of injury.
- **Store idle equipment out of the reach of children and do not allow persons unfamiliar with the equipment or these instructions to operate the equipment.** Equipment can be dangerous in the hands of untrained users.
- **Maintain equipment.** Check for misalignment or binding of moving parts, missing parts, breakage of parts, and any other condition that may affect the equipment's operation. If damaged, have the equipment repaired before use. Many accidents are caused by poorly maintained equipment.
- **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the equipment in unexpected situations.
- **Use the equipment and accessories in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the equipment for operations

different from those intended can result in hazardous situations.

- **Use only accessories that are recommended by the manufacturer for your equipment.** Accessories that may be suitable for one piece of equipment may become hazardous when used with other equipment.
- **Keep handles dry, clean, and free from oil and grease.** Clean handles give better control of the equipment.

Pre-Operation Inspection

⚠ WARNING



To reduce the risk of serious injury from electrical shock or other causes, and to prevent damage to your equipment, inspect all equipment and correct any problems before each use.

To inspect all equipment, follow these steps:

1. Power off your equipment.
2. Disconnect and inspect all cords, cables, and connectors for damage or modification.
3. Clean any dirt, oil, or other contamination from your equipment to ease inspection and to prevent it from slipping from your grip during transportation or use.
4. Inspect your equipment for any broken, worn, missing, misaligned, or binding parts, or any other condition which might prevent safe, normal operation.
5. Refer to the instructions for all other equipment to inspect and make sure it is in good, usable condition.
6. Check your work area for the following:
 - Adequate lighting.
 - The presence of flammable liquids, vapors, or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The equipment is not explosion proof. Electrical connections can cause sparks.
 - A clear, level, stable, and dry place for the operator. Do not use the equipment while standing in water.
7. Examine the job to be done and determine the correct equipment for the task.
8. Observe the work area and erect barriers as necessary to keep bystanders away.

See additional product specific safety information and warnings starting on 10.

SeeSnake microREEL Overview



Description

The RIDGID® SeeSnake® microREEL® is a portable and customizable diagnostic camera reel with enhanced imaging features.

The stiffer push cable makes the microREEL ideal for inspecting longer runs in pipes that are 38 mm to 102 mm [1.5 in to 4 in]. The included kickstand lets you set up the microREEL in the optimal position for stability while pushing or retrieving the cable.

The microREEL features a built-in sonde in the camera head that can be located with a utility locating receiver to find points of interest in the pipe.

The included high dynamic range (HDR) image sensor expands the camera's dynamic range, allowing a greater ratio of bright and dark areas to be displayed in the image at the same time. This provides greater clarity and visibility in the pipe, even in difficult lighting conditions.

microREEL APX DSL

The microREEL APX DSL is compatible with all SeeSnake monitors. The CSx Via™ mobile inspection device easily connects to the microREEL via the slip-ring cavity.

DSL - Digital-Self Leveling

The microREEL APX DSL comes with a digital self-leveling camera head to keep the camera's image level as it moves through the pipe, providing ultra-smooth viewing with no moving parts.

TruSense® Technology

The microREEL APX DSL includes a TruSense technology-enabled camera. TruSense technology establishes a two-way communication link between the camera head and a connected CSx series device.

The TiltSense inclinometer measures the camera's degree of tilt and displays it on a CSx series Wi-Fi enabled monitor, giving you a useful indicator of the camera's angle as it lays inside the pipe.

microREEL CA

The microREEL CA is designed to work with the RIDGID micro CA-350 handheld monitor with the included CA-350 docking handle and adapter accessory. The keypad lets you overlay the cable distance as well as job and customer information, and can also control the camera brightness and enable/disable the sonde.

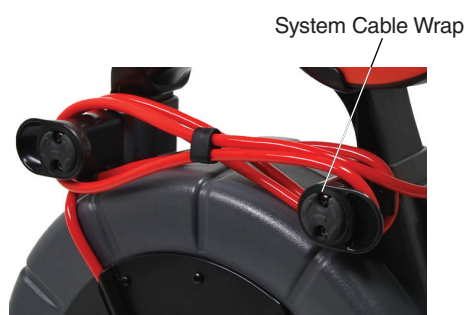
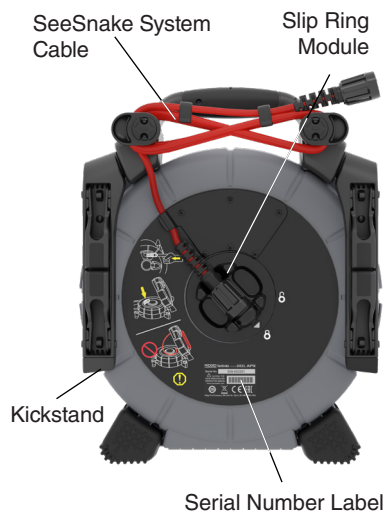
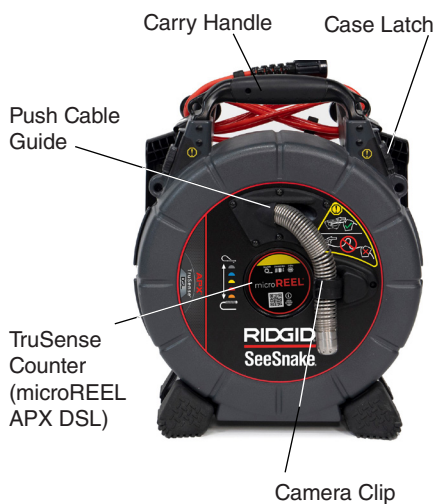
Specifications	
Weight	5.8 kg [12.7 lbs]
Dimensions	
Length	337 mm [13.3 in]
Depth	224 mm [8.8 in]
Height	411 mm [16.2 in]
Drum diameter	305 mm [12 in]
Camera	
Length	26 mm [1 in]* 37 mm [1.5 in]**
Diameter	25 mm [1 in]
Type	APX-DSL: TruSense, Digital-Self Leveling CA: TruSense***
Resolution	640 × 480 pixels
Sonde	
Type	Integrated
Frequency	512 Hz
Distance Measurement	
Type	APX DSL: TruSense Counter CA: Integrated Counter with Keypad
Data Communication	APX DSL: Two-Way CA: One-Way
Push Cable	
Length	30 m [100 ft]
Diameter	6.7 mm [0.27 in]
Fiberglass core diameter	3 mm [0.12 in]

Specifications	
Minimum bend radius	64 mm [2.5 in]
Pipe Capacity §	38 to 102 mm [1.5 to 4 in]
System Cable Length	3 m [10 ft]
Operating Environment	
Temperature †	0 °C to 46 °C [32 °F to 115 °F]
Storage temperature	-20 °C to 70 °C [-4 °F to 158 °F]
Ingress protection (without monitor)	IP×5
Relative humidity	5 to 95 percent
Altitude	4,000 m [13,123 ft]
Camera depth rating	Waterproof to 100 m [328.1 ft]
* Measured from lens to spring.	
** Measured from lens to end of threads.	
*** To enable TruSense features, use with a TruSense monitor.	
§ Actual pipe capacity depends on pipe conditions.	
‡ While the camera can function in ex- treme temperatures, some image quality changes may occur.	

Standard Equipment

- SeeSnake microREEL
- Ball guides
- Operator's manual
- micro CA-350 adapter accessory
(microREEL CA model)

Components



Specific Safety Information

⚠ WARNING



This section contains important safety information that is specific to the RIDGID SeeSnake microREEL. Read these precautions carefully before using the equipment to reduce the risk of electrical shock, fire, and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!

microREEL Safety

- **Read and understand this manual, the digital reporting monitor's manual, and the instructions for any other equipment you are using before operating the equipment.** Failure to follow all instructions may result in property damage and/or serious injury. Keep this manual with the equipment for future use.
- **Operating the equipment while in water increases the risk of electrical shock.** Do not operate the system if operator or equipment are standing in water.
- **The equipment is not designed to provide high voltage protection and isolation.** Do not use where a danger of high voltage contact is present.
- **To prevent damage to the equipment and to decrease the risk of injury, do not expose the equipment to mechanical shocks.** Exposure to mechanical shocks can damage equipment and increase the risk of serious injury.
- **Always use appropriate personal protective equipment when handling and using equipment in drains.** Wear

appropriate protective equipment such as latex or rubber gloves, goggles, face shields, and respirators when inspecting drains that might contain hazardous chemicals or bacteria. Always wear eye protection to protect against dirt and other foreign objects.

- **Ensure the push cable is secured inside the drum to prevent the push cable from unwinding itself if the drum is removed from the case or if the case is left open with the drum inside.** If the push cable unwinds, do not manually twist or force the push cable back into the non-rotating drum. The twisting and bending of the push cable that results from forcing it into the drum without the use of the outer case to rotate it will damage the push cable. See Appendix A for instructions on reinserting the push cable if it has unwound itself from the drum.

Operating Instructions

Placement

Set up your microREEL near the pipe entrance so you can manipulate the push cable while viewing the display. Use the kickstand to position the microREEL so that it does not tip during use.



Opening the microREEL Case

WARNING

Make sure the camera is completely inside the drum before unlatching and opening the microREEL case. Do not open the microREEL case while the camera is stored in the camera clip. If the camera is not in the drum, the push cable can unwind and cause damage or serious injury.

Open the microREEL case to route the camera, replace the drum, rewind the push cable, and to maintain and clean the system.

1. Set the unit on a level surface and lay it on its back.
2. Unfasten the case latches on either side of the microREEL.



Case Latch

3. Carefully open the front case and locate the camera head in the push cable drum.
4. Route the camera head out through the push cable guide in the front of the case.
5. Secure the camera head in the clip.
6. Close and relatch the case.



Installing the Drum

The microREEL case gives you the ability to swap out the drum when the job requires a different push cable and camera combination. Either microREEL drum can be installed in the microREEL case, as well as the drums on the SeeSnake microDrain™ and nanoReel™ systems.

To install the drum, follow these steps:

1. Open the microREEL case and remove the drum.
2. Place the drum you want to use in the microREEL case.
3. Make sure the product name label faces up.
4. Spin the drum to make sure it rotates freely.
5. Close and lock the case.

Inspection Overview

To perform a pipe inspection, connect any SeeSnake monitor to the reel, power on the system, push the push cable through the pipe, and observe the display.

For advanced inspection options, such as capturing media, locating the sonde, tracing the push cable, and delivering reports, refer to the manual that comes with your monitor.

Connecting to the Monitor

Connect the system cable to the monitor by aligning the connector guide pin with the socket and pushing the connector straight in.

NOTICE

Only twist the outer locking sleeve. Never bend or twist the connector.



Connecting to the CSx Via

The CSx Via Wi-Fi inspection device can be connected to the microREEL through the slip-ring cavity. Remove the slip-ring assembly from the microREEL and install the CSx Via into the slip-ring cavity.

For more instructions on installing the CSx Via, refer to the operator's manual.

Retrieving the Camera

Pull the push cable back out of the pipe with slow, steady force and feed small lengths back into the drum. Wipe the push cable with a paper towel or rag as you retrieve it.

NOTICE Do not exert excessive force or pull at sharp angles. Feeding longer lengths or forcing the push cable may cause it to loop, kink, or break.

Pipe Guides

Pipe guides center the camera in the pipe, improve picture quality, and help keep the lens clear. Use pipe guides when possible to reduce wear and tear on the camera system.

micro CA-350 Inspection Camera

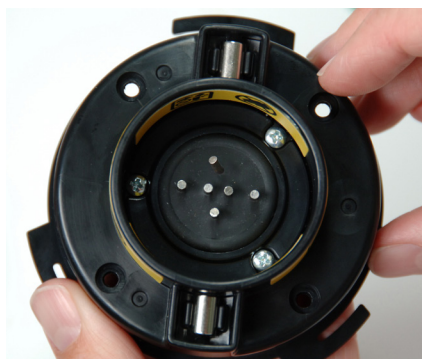
The microREEL CA can be used with the RIDGID micro CA-350 inspection camera by installing the micro-CA 350 adapter that comes with the CA model.

For instructions on connecting the micro CA-350 to the microREEL, refer to the included micro CA-350 adapter instructions or visit support.seesnake.com/ca350.

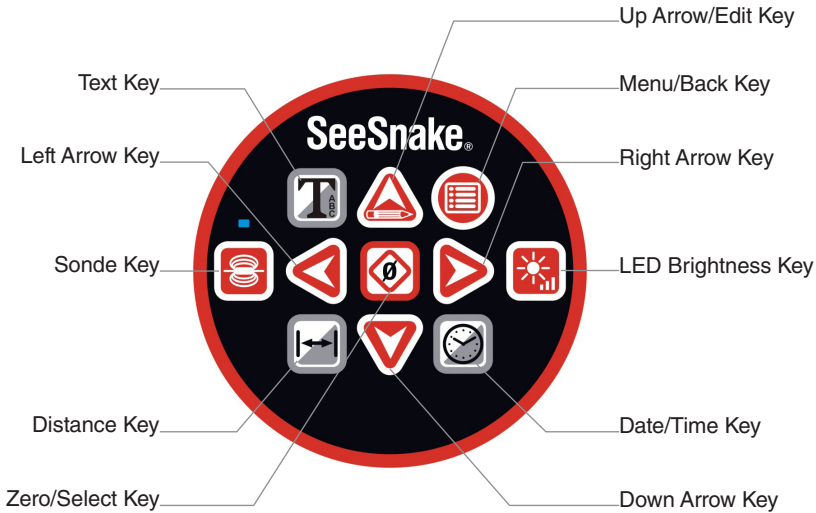
Removing the Slip Ring Assembly

1. Disconnect the system cable from the reporting monitor and remove the monitor from the docking system.
2. Unwrap the system cable from the cable wraps.
3. Pop the frame cable anchor off the frame and unhook the system cable from the frame hook.
4. Turn the slip-ring dial counter-clockwise to the unlocked position **6**.
5. Pull straight out.

NOTICE Do not touch the contact pins inside the slip-ring dial. Stressing the contact pins can cause them to break.



microREEL CA Keypad



microREEL CA Keypad		
Key		Meaning
	Menu/Back Key	Open the Main Menu and exit out of menus and screens.
	Zero/Select Key	Select a highlighted menu item or long press (>3 seconds) to set the system zero point. To measure a temporary zero point of the total length of push cable, press again for one second. Press a third time to return to the total length measurement.
	Sonde Key	Toggle the sonde on or off. When on, the LED above the key is lit.
	LED Brightness Key	Control the brightness of the LEDs in the camera. Press to increase or decrease brightness levels or press once and use the Arrow keys   to adjust the brightness.
	Up Arrow/Edit Key	Navigate menu choices and text characters. Press to edit highlighted text. Refer to the On-Screen Text section for instructions on editing on-screen text.

microREEL CA Keypad		
Key		Meaning
	Left/Right Arrow Keys	Navigate menu choices and text characters.
	Down Arrow Key	Navigate menu choices and text characters.
	Text Key*	Toggle on or off to show or hide preset text or custom text.
	Date/Time Key*	Toggle on or off to show or hide the date and time of the inspection.
	Distance Key*	Toggle on or off to show or hide the integrated counter measurement.
*When toggled on, this feature is displayed on the monitor's recorded video and appears in the inspection report.		

Maintenance and Support

Cleaning

Clean your system with rags and a soft nylon brush. If desired, a mild detergent or disinfectant can be used. Do not use solvents or high pressure water to clean any part of the system.

Maintaining Components

Camera Head

Scratches on the camera have a minimal effect on its performance. Do not use scraping tools or sand the camera to remove scratches.

Push Cable

Run a rag over the push cable and visually inspect it for cuts and abrasions while pushing it back into the drum. Replace or repair the push cable if the outer jacket is cut or abraded.

Storage

The microREEL must be stored in a dry, secure area between -20°C and 70°C [-4°F and 158°F]. Store your equipment in a locked area out of the reach of children and people unfamiliar with its purpose.

Support

For support and additional information about using your system, visit **support.seesnake.com/microreel**.

Service and Repair

Improper service or repair can cause the camera reel to be unsafe to operate.

Service and repair of the camera reel must be performed at a RIDGID Independent Authorized Service Center. To find your nearest service center or for any service or repair questions:

- Contact your local RIDGID distributor.
- Visit RIDGID.com.
- Contact Ridge Tool Company Technical Service Department at rtctechservices@emerson.com or, in the USA and Canada, call 1-800-519-3456.

Disposal

Parts of your system contain valuable materials that can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.



EC Countries: Do not dispose of electrical equipment with household waste!

According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national legislation, electrical equipment that is no longer usable must be collected separately and disposed of in an environmentally correct manner.

Battery Disposal

EC Countries: Defective or used batteries must be recycled according to the guideline 2006/66/EEC.

Appendix

Appendix A: Reinserting the Push Cable

NOTICE

Do not use excessive force when attempting to rewind the push cable into the drum. Feeding longer lengths or forcing the push cable may cause it to loop, kink, or break.

Follow these instructions to reinsert the push cable if it has unwound from the drum.

1. Seat the drum in the case before reinserting the push cable.



2. If space permits, uncoil and straighten the entire length of push cable on the ground.



3. Using both hands, begin to rewind the push cable into the drum. If the push cable cannot be laid out straight, use extreme care when rewinding the push cable. Ensure the push cable does not bend or get caught on or under objects.

If the push cable becomes twisted or bent, stop rewinding and untwist it before continuing.

4. Ensure the drum rotates in the case as the push cable rewinds. To avoid damaging the push cable, keep one hand close to the drum when rewinding the push cable to ensure that the drum rotates freely.



5. Gently route the camera head through the push cable guide.

If replacing the camera head, only pull up on the portion of the cable that contains the spring to avoid bending or breaking the push cable.



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Printed in USA
999-995-429.10

ECN005509/01

2026/06/30
744-034-0355-00-0B