

SeeSnake®

micro**DRAIN**
APX® DSL

CSx  **VIA®**



**CSx Via shown with RIDGID 18 V Li-Ion battery, not included*



support.seesnake.com/apxvia



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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.

Directive 2014/53/EU (CSx Via)			
Radio	Operating Spectrum / Power		
Bluetooth Low Energy (BLE)	2400 – 2483.5 MHz	5.44 dBm	
Wi-Fi 802.11 b/g/n	2400 – 2483.5 MHz	15.43 dBm	
Wi-Fi 802.11 a/n/ac	5470 – 5725 MHz	18.65 dBm	

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.

UK CA **UK Importer**
Ridge Tool UK (RIDGID)
70 Gracechurch Street
London EC3V 0HR, UK

Contains Transmitter Modules: FCC ID: TFB-1004 / IC: 5969A-1004 and FCC ID: X8WBM832 / IC: 4100A-BM832

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.



This symbol indicates the risk of fire.

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.

Battery Use and Care

- **Use equipment only with specifically designed battery packs.** Use of any other battery packs may create a risk of injury and/or fire.
- **Recharge only with the charger specified by the manufacturer.** A charger suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Do not cover charger while in use.** Proper ventilation is required for correct operation. Covering charger while in use could result in fire.
- **Use and store batteries and chargers in dry, appropriate temperature areas according to their documentation.** Extreme temperatures and moisture can damage batteries and result in leakage, electrical shock, fire, or burns.
- **Do not probe the battery with conductive objects.** Shorting of battery terminals may cause sparks, burns, or electrical shock. When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or any other small metal object that can make a connection from one terminal to the other. Shorting the battery terminals may cause burns or a fire.
- **Under abusive conditions, liquid may eject from battery; avoid contact.** If contact occurs, flush with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery may cause irritation or burns.
- **Properly dispose of batteries.** Exposure to high temperatures can cause the batteries to explode; do not dispose of in a fire. Some countries have regulations concerning battery disposal. Follow all applicable regulations.

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 adequate conditions to perform the job.
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.

Specific Safety Information

⚠ WARNING



This section contains important safety information that is specific to the RIDGID® SeeSnake® microDRAIN APX® and CSx Via™. 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!

Product 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.
- **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.

Product Overview

The RIDGID® SeeSnake® microDRAIN APX® DSL and CSx Via™ mobile inspection device make an easy-to-use yet versatile plumbing inspection system.



microDRAIN APX DSL

The microDRAIN APX DSL is a portable and customizable diagnostic camera reel with enhanced imaging features.

It uses an advanced flexible push cable design and a proprietary small diameter camera, which allows camera inspection through very small diameter pipes, P-traps, and very small radius bends which conventional inspection systems often cannot inspect.

The included kickstand lets you set up the microDRAIN APX DSL in the optimal position while pushing or retrieving the cable and protects the CSx Via during use.

The microDRAIN APX DSL 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.

APX DSL Features

The microDRAIN 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 Description

The camera on the microDRAIN APX DSL includes features enabled by TruSense technology. TruSense technology establishes a two-way communication link between the camera head and a connected CSx series monitor.

TiltSense™ inclinometer: measures the camera's degree of tilt and displays it on the HQx Live app or HQ, giving you a useful indicator of the camera's angle as it lays inside the pipe.

High Dynamic Range Image Sensor: expands the camera's dynamic range, allowing both bright and dark areas to be displayed in the image for superior clarity and detail.

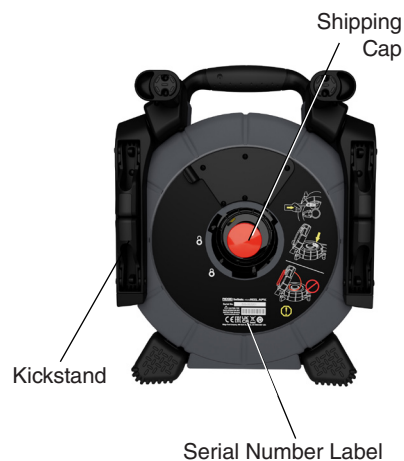
CSx Via

The RIDGID SeeSnake CSx Via is a flexible inspection solution for streaming, capturing, and sharing media using a mobile device. With its integrated Wi-Fi, the CSx Via connects to an iOS™, Android™, or Windows-powered device to enable inspections with the SeeSnake HQx Live app or SeeSnake HQ software for Windows. The CSx Via is powered by an 18 V rechargeable battery.

The CSx Via is compatible with most RIDGID SeeSnake camera reels and easily installs via the slip-ring cavity. The CSx Via Mount accessory is required for using the CSx Via with the SeeSnake Standard or Mini camera reels.

Components

microDRAIN APX DSL



CSx Via



Standard Equipment

- SeeSnake microDRAIN APX DSL
- SeeSnake CSx Via
- Pipe guides
- Operator's manual

microDRAIN APX DSL Specifications	
Weight	5.25 kg [11.6 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]
TruSense Camera, Digital Self-Leveling	
Length	19 mm [0.8 in]* 25 mm [1 in]**
Diameter	22 mm [0.87 in]
Resolution	640 × 480 pixels
Sonde	
Type	Integrated
Frequency	512 Hz
Distance Measurement	
Type	TruSense Counter
Data Communication	Two-Way
Push Cable	
Length	20 m [65 ft]
Diameter	8.3 mm [0.33 in]
Minimum bend radius	19.1 mm [0.75 in]
Pipe Capacity §	32 to 76 mm [1.25 to 3 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]
Relative humidity	5 to 95 percent
Altitude	4,000 m [13,123 ft]

microDRAIN APX DSL Specifications	
Camera depth rating	Waterproof to 100 m [328.1 ft]
* Measured from lens to spring.	
** Measured from lens to end of threads.	
§ Actual pipe capacity depends on pipe conditions.	
‡ While the camera can function in extreme temperatures, some image quality changes may occur.	

CSx Via Specifications	
Weight (with cap)	0.38 kg [0.83 lb]
Dimensions	
Length	149 mm [5.9 in]
Depth	106 mm [4.2 in]
Height	126 mm [5 in]
Power Source	18 V Li-Ion or Lucid 18.5 V lithium polymer battery
Connectivity	
Bluetooth	Bluetooth Low Energy (BLE)
Wi-Fi	802.11 b/g/n 802.11 a/n/ac
Operating Environment	
Temperature	-10°C to 50°C [14°F to 122°F]
Storage temperature	-20°C to 60°C [-4°F to 140°F]
Relative humidity	5 to 95 percent

Operating Instructions

Opening the microDRAIN APX DSL Case

⚠ WARNING

Make sure the camera is completely inside the drum before unlatching and opening the microDRAIN APX[®] DSL case. Do not open the microDRAIN APX DSL 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 microDRAIN APX DSL 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 microDRAIN APX DSL.



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.



Inspection Overview

To perform a pipe inspection, connect the CSx Via™ to the microDRAIN APX DSL, power on the system, and connect the CSx Via to HQx Live or HQ. Push the push cable through the pipe and observe the display.

Connecting the CSx Via to the microDRAIN APX DSL

The CSx Via Wi-Fi inspection device connects to the microDRAIN APX DSL through the slip-ring cavity.

1. Remove the shipping cap from the microDRAIN APX DSL.
2. Slide the battery into the CSx Via battery shoe.
3. Remove the shipping cap from the CSx Via connector.
4. Align the arrow on the connector with the unlock symbol **⓪** on the frame and insert the CSx Via into the slip-ring cavity.
5. Turn the CSx Via so that it locks into place **⓪**.

NOTICE

When the CSx Via is not connected to the microDRAIN APX DSL, keep the shipping cap over the slip-ring cavity to protect the electronics inside.



Connecting to a Mobile Device

The CSx Via can be used to perform an inspection using HQx Live, available on iOS and Android devices, or SeeSnake HQ software for Windows devices.

To connect the CSx Via to your device, enable your device's Wi-Fi and Bluetooth, open the app, and connect to the CSx Via. Once connected, you can live stream inspection footage and capture, view, and share media.

Visit the HQx Live and HQ support pages on SeeSnake Support for additional instructions, including detailed connection instructions and media capturing and sharing.

- HQx Live:
support.seesnake.com/hqx-live/
- HQ: **support.seesnake.com/hq**

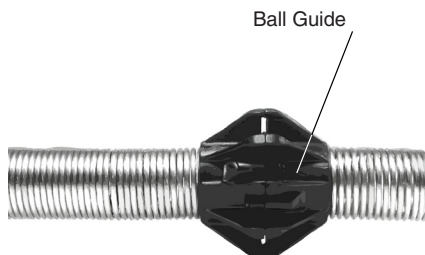
Placement

Set up your microDRAIN APX DSL on a level surface near the pipe entrance so you can manipulate the push cable while viewing the display. Use the kickstand to position the microDRAIN APX DSL so that it does not tip during use. The kickstand protects the CSx Via mobile device when connected to the microDRAIN APX DSL.



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.



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.

Removal

To remove the CSx Via, turn it so that the arrow is aligned with the unlock symbol  and pull straight out.

CSx Via Key Functions

	Power	Power on and off. Press to wake up while in Standby Mode.
	Zero	Press and hold to set the system measurement to zero. Press to start and stop temporary segment measurements.
	Sonde	Enable and disable the sonde.

LED Behaviors

The CSx Via™ uses its LEDs to communicate booting and Wi-Fi connectivity status.



Power and Booting LEDs	
Status	LED
Booting	Both LEDs alternate flashing
Restarting/ powering off	Both LEDs flash simultaneously
Recovery mode: The CSx Via will refresh its firmware and restart in the event it does not power on	Both LEDs flash simultaneously

Wi-Fi Connectivity LEDs	
Status	LED
Wi-Fi booting	Wi-Fi LED flashes rapidly
Wi-Fi ready	Wi-Fi LED flashes steadily
Wi-Fi connected	Wi-Fi LED solid

Power States

The CSx Via has three power states: on, off, and Standby Mode, a low power state that turns off the camera and its LEDs to conserve energy. The CSx Via enters Standby Mode after a period of inactivity, or when closing the app or exiting live view. To wake up the CSx Via from Standby Mode, press the Power key or open the app's live view.

The CSx Via beeps to communicate different power states.

Power State Sounds	
Power State	Sound
Power on	Single beep
Power off	Long beep
Entering Standby Mode	Two beeps
Wake up from Standby Mode	Single beep

Replacing the Drum

The microDRAIN APX® case gives you the ability to swap out the drum when the job requires a different push cable and camera combination. Either drums on the SeeSnake microREEL APX® and NANOreel systems can be installed into the microDRAIN APX DSL case.

To install the drum, follow these steps:

1. Open the microDRAIN APX DSL case and remove the drum.
2. Place the drum you want to use in the microDRAIN APX DSL 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.

Maintenance and Support

Cleaning the microDRAIN APX DSL

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

Store your equipment in dry, secure area out of the reach of children and people unfamiliar with its purpose. The microDRAIN APX DSL must be stored between -20°C and 70°C [-4°F and 158°F]. The CSx Via must be stored between -20°C to 60°C [-4°F to 140°F]. Store away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

Transport

Remove the battery before shipping and before storing for extended periods of time. Do not expose to heavy shocks or impacts during transport.

Support

For support and additional information about using your microDRAIN APX DSL system, visit support.seesnake.com/microdrain.

For support and additional information about using your CSx Via, visit support.seesnake.com/csuvia.

Service and Repair

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

Service and repair of the microDRAIN APX DSL and/or the CSx Via 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 rttechservices@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.

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