

### **Operator's Manual**

# 



With TruSense® Technology

Français – 27

• Español - 51

This manual covers the following drums:



### **WARNING!**

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in electrical shock, fire, and/or serious personal injury.

For support and additional information about using your rM200 go to support.seesnake.com/rm200 or scan this QR code.



#### **Table of Contents**

Introduction	
Regulatory Statements	4
Safety Symbols	4
General Safety Rules	
Work Area Safety	5
Electrical Safety	5
Personal Safety	5
Equipment Use and Care	6
Pre-Operation Inspection	
SeeSnake rM200 Overview	
Description	8
Universal Specifications	9
Standard Equipment	9
System Components	9
rM200A Description	11
D2A Specifications	11
rM200B Description	12
D2B Specifications	12
Specific Safety Information	
SeeSnake rM200 Safety	13
Operating Instructions	
Placement	14
Opening the rM200 Case	14
Installing the Drum	15
Routing the Camera	15
Inspection Overview	15
Pipe Guides	16
Individual Components	
Handles and Docks	17
Stow Bin	18
System Cable Assembly	19
Bearings	19
Docking System	
Mounting the CS6x Versa onto the rM200	21
Mounting the CS65xR or CS12x onto the rM200	22
Maintenance and Support	
Cleaning	22
Maintaining Components	22



Storage	22
Support	
Service and Repair	23
Disposal	23
ppendix	
Appendix A: Stow Bin Instructions	24

\*Original Instructions - English

#### Introduction

The warnings, cautions, and instructions discussed in this manual cannot cover all possible conditions and situations that 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



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



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.

#### **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.

#### **A** 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 operator's 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, 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

#### **A 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.
- Disconnect and inspect all cords, cables, and connectors for damage or modification.
- Clean any dirt, oil, or other contamination from your equipment to ease inspection and to prevent it from slipping from your grip during transport or use.
- Inspect your equipment for any broken, worn, missing, misaligned, or binding parts, or any other condition which might prevent safe, normal operation.
- Refer to the instructions for all other equipment to inspect and make sure it is in good, usable condition.

- 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.
- Examine the job to be done and determine the correct equipment for the task
- Observe the work area and erect barriers as necessary to keep bystanders away.

See additional product specific safety information and warnings starting on page 13.

#### SeeSnake rM200 Overview





#### **Description**

The SeeSnake® Max™ rM200 with TruSense® technology is a versatile, ergonomic camera reel in the SeeSnake family of premier diagnostic systems.

The rM200 comes with your choice of drums from the D2 drum series, giving you on-thejob flexibility when the job demands a different push cable and camera combination.

The rM200 can be used with any SeeSnake monitor and is designed to dock with the CS6x Versa®, CS65xR, and CS12x for convenient transport, operation, and storage.

Heavily tested for durability, the rM200's case helps protect your push cable, prolonging the life of your equipment. Keeping the push cable enclosed when not in use also helps keep surfaces around and between your work areas clean.

The FleXmitter® sonde helps locate points of interest in the pipe. FleXmitter sondes have long, powerful antennas capable of putting out a signal strong enough to pinpoint the camera's location underground, while still preserving its flexibility through turns.

The rM200 is easy to transport with its handle assembly and wheels. Store a paint can, gloves, business cards, wrenches, or any other tool you want to keep nearby in the included stow bin.

#### TruSense Technology Description

TruSense technology establishes a two-way communication link between the camera head and a connected CSx series Wi-Fi enabled monitor. TruSense features advanced on-camera sensors that convey valuable information about the in-pipe environment.

#### Included TruSense-Enabled Sensors TiltSense™

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.

#### High Dynamic Range Image Sensor

The TruSense-enabled 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 same image at the same time without reducing visibility. The result is superior clarity and detail, allowing you to quickly and easily identify problem areas.

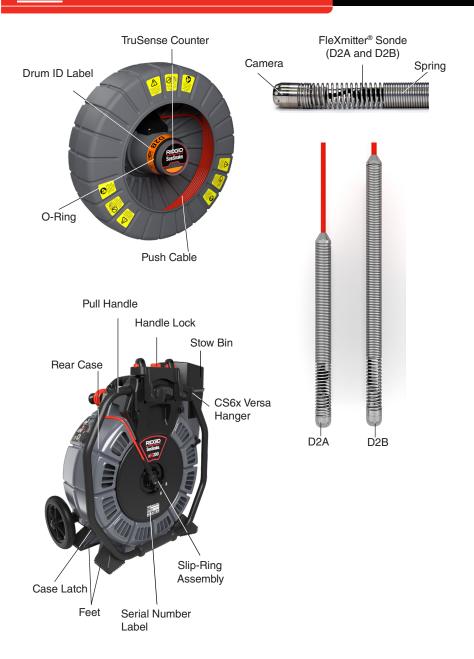
Universal Specifications		
System Cable Length	3 m [10 ft]	
Dimensions		
Length	535 mm [21.0 in]	
Depth	345 mm [13.6 in]	
Height	610 mm [24 in]	
Wheels Dimensions		
Width	28 mm [1.1 in]	
Diameter	173 mm [6.8 in]	
Pull Handle Dimensions		
Length	511 mm [20.1 in]	
Height	517 mm [20.4 in]	
Stow Bin Dimensions		
Width	239 mm [9.4 in]	
Depth	156 mm [6.2 in]	
Height	282 mm [11.1 in]	
Operating Environment		
Temperature ‡	-40°C to 55°C [-40°F to 131°F]	
Storage temperature	-40°C to 65°C [-40°F to 149°F]	
Ingress protection (without monitor)	IPx5	
Relative humidity	5 to 95 percent	
Altitude	4,000 m [13,123 ft]	
Camera depth rating	Waterproof to 100 m [328.1 ft]	
‡ While the camera of extreme temperature quality changes may	s, some image	

#### **Standard Equipment**

- rM200 case
- D2 drum
- One (1) stow bin
- · Operator's manual
- CS6x Versa hanger
- Shoulder strap
- Pipe guides

#### **System Components**





#### rM200A Description

The rM200A consists of the rM200 case with the D2A drum installed. A 61 m [200 ft] long, moderately stiff push cable makes the rM200A a versatile pipe inspection system.

The rM200A is best suited for lines 38 mm - 101 mm [1.5 in - 4 in] in diameter. When used with a 125 mm [5 in] pipe guide the rM200A's line capacity is 38 mm - 203 mm [1.5 in - 8 in]. Achievable push distance depends on pipe conditions.

A FleXmitter® sonde is built into the rM200A's spring. The sonde helps locate problems in the pipe.

D2A Specifications			
Color ID	Red		
System Weight	16.7 kg [37 lb]		
Drum Weight	7.4 kg [16.3 lb]		
Drum Diameter	432 mm [17 in]		
TruSense Camera			
Туре	Self-leveling		
Length	26 mm [1 in]* 37 mm [1.5 in]**		
Diameter	25 mm [1 in]		
Light	6 LEDs		
Sonde			
Туре	FleXmitter®		
Frequency	512 Hz		
Resolution	640 × 480 pixels		
Spring assembly			
Туре	Single		
Length	316 mm [12.4 in]		
Push cable			
Length	61 m [200 ft]		
Diameter	7.5 mm [0.3 in]		
Fiberglass core diameter	3.5 mm [0.14 in]		
Minimum bend radius	70 mm [2.8 in]		
Pipe capacity <sup>§</sup>	38 mm – 203 mm [1.5 in – 8 in]		
* Measured from lens to spring.			
** Measured from lens to end of threads.			
§ Actual pipe capacit	§ Actual pipe capacity depends on pipe		

conditions.

#### rM200B Description

The rM200B consists of the rM200 case with the D2B drum installed. The rM200B has a 50 m [165 ft] long, stiff push cable and a longer spring with a second, shorter spring nested inside. The dual, nested spring gives the rM200B the ability to easily navigate multiple turns and transitions while maintaining the stiffness necessary to push through them and go farther down long lines.

The rM200B is best suited for lines 51 mm - 101 mm [2 in - 4 in] in diameter. When used with a 125 mm [5 in] pipe guide the rM200B's line capacity is 51 mm - 203 mm [2 in - 8 in]. Achievable push distance depends on pipe conditions.

A FleXmitter® sonde is built into the rM200B's spring. The sonde helps locate problems in the pipe.

D2B Specifications			
Color ID	Orange		
System Weight	18.2 kg [40.2 lb]		
Drum Weight	8.7 kg [19.2 lb]		
Drum Diameter	432 mm [17 in]		
TruSense Camera			
Туре	Self-leveling		
Length	26 mm [1 in]* 37 mm [1.5 in]**		
Diameter	25 mm [1 in]		
Light	6 LEDs		
Sonde			
Туре	FleXmitter®		
Frequency	512 Hz		
Resolution	640 × 480 pixels		
Spring assembly			
Туре	Dual, nested		
Length	435 mm [17.1 in]		
Push cable			
Length	50 m [165 ft]		
Diameter	8.9 mm [0.35 in]		
Fiberglass core diameter	4.5 mm [0.18 in]		
Minimum bend radius	89 mm [3.5 in]		
Pipe capacity§	51 mm – 203 mm [2 in – 8 in]		
* Measured from lens to spring.			
** Measured from lens to end of threads.			
§ Actual pipe capacity depends on pipe conditions.			

#### **Specific Safety Information**

#### **WARNING**







This section contains important safety information that is specific to the rM200. 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!

#### SeeSnake rM200 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.

#### **Operating Instructions**

#### **Placement**

Place the rM200 and monitor near the pipe entrance so you can manipulate the push cable while viewing the display. Lay the rM200 case on its back or position the pull handle as a kick stand to make sure the rM200 case does not tip during use.



Use the pull handle as a kick stand when performing an inspection on a rooftop, hillside, or in a location that requires overhead entrv.



Note: Refer to the Handles and Docks section for instructions on how to lock the handle into different positions.

#### **Opening the rM200 Case**

#### A CAUTION

Make sure the camera is completely inside the drum before unlatching and opening the rM200 case. If the camera is not in the drum, the push cable can unwind and cause damage or serious injury.

#### NOTICE

Do not open the rM200 case while the camera is stored in the camera clip. Secure the camera inside the drum.

Open the rM200 case to install the drum, replace the bearing, rewind the push cable, install the docking handle, and to maintain and clean the rM200 system.

To open the rM200 case, follow these steps:

1. Lock the pull handle against the rear case.

Note: Refer to the Handles and Docks section for instructions on how to position the handle

Remove the stow bin.

Note: Refer to Appendix A for instructions on how to remove the stow bin.

- 3. Lay the rM200 case on its back.
- 4. Secure the camera in the drum by pushing it through the drum access opening.



- 5. Unwrap the SeeSnake system cable from the cord wrap.
- 6. Slide all six case latches toward the handle to unlock the rM200 case.
- 7. Lift handle to open.

#### **Installing the Drum**

The rM200 case gives you the ability to swap out the drum when the job requires a different push cable and camera combination.

To install the drum, follow these steps:

- 1. Open the rM200 case.
- 2. Place the drum in the rM200 case.
- 3. Make sure the bearing faces down and the counter keypad faces up.
- 4. Spin the drum to make sure the drum spins freely on the bearing.
- 5. Lock all six (6) of the rM200 case latches.

NOTICE

The O-ring can fall out easily. Make sure the O-ring is properly installed before use.

#### **Routing the Camera**

If the camera is inside the drum, route the camera through the drum access opening and the push cable guide. Secure the camera in the camera clip when not in use.



#### **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.

Guide Pin Socket Connector Ridge



Outer Locking Sleeve

#### **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.

Pipe guides can easily be installed, adjusted, and removed to provide better camera and push cable movement in the pipe. For small pipes, tubes, or voids, the camera head guide helps push the camera through stubborn fittings. For larger pipes, ball guides center the camera for better visibility and light illumination.



Without Pipe Guide



With Pipe Guide

#### Camera Head Guide Installation

Camera head guides can be used in smaller pipes to push the camera through stubborn fittings.

- 1. Loosen the screws on both sides of the guide until it slides easily onto the camera head.
- 2. Tighten the screws until the guide stays in place, but do not over-tighten.



#### **Ball Guide Installation**

Ball guides are designed to slip onto the spring and lock into place. Depending on work conditions, you can place a ball guide on the spring behind the camera to tilt the camera head upward to view the top of the pipe.

- 1. Make sure the ball guide is unlocked.
- 2. Slide the ball guide over the camera and onto the spring.



- 3. Press down on the blue locks to secure the ball guide onto the spring.
- 4. Slide the red locks over the blue locks to secure the ball guide into place.



NOTICE ball quide gets snagged in a pipe, it can fall off the spring. To avoid losing ball guides and obstructing the pipe, do not use excessive force to push through the pipe when you feel resistance.

#### **Individual Components**

#### **Handles and Docks**

#### Carry Handle

The carry handle comes installed on the rM200 case.



#### CS6x Versa Hanger

The CS6x Versa hanger lets you mount the SeeSnake CS6x Versa Wi-Fi enabled reporting monitor onto the rM200 for easy transport. See page 21 for instructions on docking the CS6x Versa hanger.



#### **Pull Handle**

The pull handle on the rM200 can be locked in four positions. Each position has a different purpose which increases usability and maneuverability.

- Midway for use as a kick stand.
- · Upright to maneuver during transport.
- Against the rear case when in use.
- · Against the front case for storage in small spaces and transport when going up or down ladders.

To position the pull handle, follow these steps:

- 1. Set the rM200 case on its feet.
- 2. Press the handle lock and position the handle.
- 3. Release the handle lock to lock the handle into place.





The stow bin provides storage for gloves, a paint can, business cards, pipe wrenches, or other tools you want to keep nearby. The rM200 comes with one stow bin. Up to two (2) can be installed on the rM200.

Note: Refer to Appendix A for detailed instructions on how to install the stow bin.





#### System Cable Assembly

The system cable assembly includes the following components:

- · The system connector for connecting to SeeSnake digital reporting monitors.
- 3 m [10 ft] of system cable.
- · The slip-ring assembly, which is made up of the slip-ring dial and the slip-ring cavity on the frame.

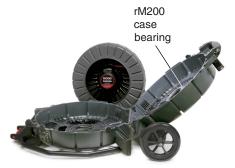
Before cleaning the rM200, ensure the slipring dial is locked  $\delta$  in the slip-ring cavity. Avoid getting the slip-ring assembly wet when cleaning.

**NOTICE** To avoid damaging the slip-ring contact pins or getting the internal electrical components wet, keep slip-ring assembly locked.

#### **Bearings**

There are two bearings in the rM200 system. The bearings allow the drum to spin smoothly when pushing the cable and provide resistance when returning the push cable to the drum.

One bearing attaches to the rM200 case and is located inside the front case.



The second bearing attaches to the drum and is located on the drum's underside. Each rM200 model has a different bearing. The bearings can fall out. Do not substitute the bearings.

#### Replacing the Bearing

The bearing is on the underside of the drum. A different bearing comes with each D2 series drum. The bearing can become dirty and worn. To clean, rinse in warm water and a mild detergent.

To replace the bearing, follow these steps:

- 1. Open the rM200 case.
- Lift the drum out of the rM200 case and turn over, with the counter keypad faced down.
- 3. Replace bearing.
- Return the drum to the rM200 case and make sure the bearing faces down and the counter keypad faces up.
- 5. Spin the drum to make sure the drum spins freely on the bearing.
- Lock all six (6) of the rM200 case latches.

#### NOTICE

Do not use the rM200 without the bearing installed. If the bearing is missing, the push cable can damage or break.



#### **System Cable Removal**

- 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.
- On the rear side of the rM200 case, turn the slip-ring dial counter-clockwise to the unlocked position 6.
- 4. Pull straight out.

#### NOTICE

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

Broken Contact Pin



#### System Cable Installation

To install the system cable, follow these steps:

- Align the arrow on the slip-ring dial with the unlock symbol 6 on the frame and insert the slip-ring dial into the slip-ring cavity.
- 2. Turn the slip-ring dial to the locked position  $\mathbf{\delta}$ .



- Hook the system cable into the frame hook and snap the cable anchor onto the frame.
- 4. Wrap the system cable around the cable wraps.

#### **Docking System**

#### WARNING

Carrying the system incorrectly can cause the digital reporting monitor to disengage from the docking system and may result in property damage and/or serious injury.

## Mounting the CS6x Versa onto the rM200

- 1. Push the red slide locks on the rM200 inwards.
- 2. Place the CS6x Versa hanger over the rM200.



- 3. Push the slide locks out so they lock the CS6x Versa hanger into place.
- 4. Hang the CS6x Versa on the rM200.



To remove, push the slide locks inwards to unlock the hanger.

# Mounting the CS65xR or CS12x onto the rM200

To mount the CS65xR or CS12x monitor onto the rM200, follow these steps:

- 1. Push red slide locks inwards so that they do not obstruct the kick stand.
- Unfold the kick stand from the bottom of the monitor, and hold the system so that it is parallel to the back of the rM200. Place the monitor onto the rM200.
- 3. Reset the red locks on the rM200 so they lock the monitor into place.



Front Cover Handle



To remove the monitor from the rM200, push the red locks on the rM200 and remove the monitor. You may return the kick stand to its folded position.

# 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 rM200 must be stored in a dry, secure area between -40°C and 65°C [-40°F and 149°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/rm200.

#### **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: Stow Bin** Instructions

#### **Can Holder Orientation**

**NOTICE** The can holder on the stow bin must be on the front side of the rM200 case so that it does not interfere with the pull handle.

To orient the can holder, follow these steps:

1. Remove the can holder (Item 1) and the replacement plate (Item 2) with a Phillips screwdriver from inside of the stow bin.





2. Install the can holder on the other side of the stow bin and screw the replacement plate into place.

#### Stow Bin Installation

To install the stow bin on the rM200 case. follow these steps:

1. Push the black button on the inside of the stow bin.



Align the groove on the underside of the stow bin (Item 1) with the eyelet on the rM200 case (Item 2). Push and fit into place.



3. To secure the stow bin, pull and snap the front and back hooks into the closest groove on the rM200 case.



Note: The stow bin comes with two rubber plugs that can be inserted into the bottom of the main compartment and can holder. The can holders also contain a magnet at the bottom to securely hold can in place.



To remove the stow bin, follow these steps:

- 1. Unlatch the stow bin hooks from the rM200's front and rear case.
- 2. Push the black button on the inside of the stow bin.
- 3. Pull the stow bin straight off the rM200 case.





#### WWW.RIDGID.COM

Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 USA

1-800-474-3443

Ridge Tool Europe NV (RIDGID) Ondernemerslaan 5428 3800 Sint-Truiden Belgium

+32 (0)11 598 620

© 2021 Ridge Tool Company. All rights reserved.

Every effort has been made to ensure that the information in this manual is accurate. Ridge Tool Company and its affiliates reserve the right to change the specifications of the hardware, software, or both as described in this manual without notice. Visit RIDGID. com for current updates and supplemental information pertaining to this product. Due to product development, the photos and other presentations specified in this manual may differ from the actual product.

RIDGID and the RIDGID logo are trademarks of Ridge Tool Company, registered in the USA and other countries. All other registered and unregistered trademarks and logos mentioned herein are the property of their respective owners. Mention of third-party products is for informational purposes only and constitutes neither an endorsement nor a recommendation.

Printed in USA 999-995-247.10

2021/09/28 744-026-0299-00-0A



