RIDGID®

Operator's Manual

SeeSnake® CS65x))

Companion Apps Available

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Serial No.	

RIDGID

Table of Contents

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

The EC Declaration of Conformity (890-011-320.10) 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.

Contains Transmitter Module FCC ID: Z64-WL18SBMOD.

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 a hazardous situation.

- **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.

- **Protect the LCD from impacts during use.** Impacts to the front of the LCD can cause glass breakage and complete failure of the display.

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

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 .

SeeSnake CS65x Overview

Description

The RIDGID® SeeSnake® CS65x Wi-Fi-enabled reporting monitor is the all-in-one solution for capturing media and delivering inspection results to your customers, all right from the job site. Built for speed and flexibility, the CS65x turns your captured media into professional reports that can be enhanced with notes and customer information using the included reporting software.

With its 128 GB solid state drive and dual USB ports, you can record to multiple devices simultaneously, bypassing the extra steps of editing jobs on a PC after the fact. With the CS65x's dual recording capability you have a copy for yourself and up to 2 copies saved on USB drives to give to customers. You can configure the CS65x to automatically sync media and jobs to the USB drives in real time.

Easily take photos and video to capture media during your inspection. The CS65x creates professional, high-quality multimedia reports automatically throughout your inspection, so you can finish a report and move on to the next job. Enable the integrated GPS to record location data while you work.

The CS65x is compatible with all SeeSnake camera reels, and conveniently mounts on the SeeSnake Max rM200 for easy transport.

Download HQx Live, the free iOS™ or Android™ companion app to use your mobile device as a second screen. Using the CS65x's built-in Wi-Fi, pair a smartphone or tablet to the CS65x to provide uninterrupted, high-quality video streaming directly on the device, letting you show your customers the inspection in real-time. HQx Live also lets you capture media from a paired device, and multiple devices can be paired to a CS65x at once.

The CS65x is easy to use in the most demanding work environments. The keyboard is encased in a splash-proof cover and lets you add notes to image captures and video recordings, and enter job details into reports. View captured media and reports on the CS65x's 165 mm [6.5 in] daylight viewable screen.

HQ software streamlines critical and routine updates which help improve and prolong the life of your equipment. HQ also gives you the ability to manage jobs and generate reports for customers. The included 8 GB USB drive comes with HQ preloaded.

RIDGID

Specifications	
Weight without Battery	4.2 kg [9.3 lb]
Dimensions	
Depth	406 mm [16.0 in]
Width	319 mm [12.5 in]
Height	242 mm [9.5 in]
Power Source	18 V Li-Ion rechargeable battery or AC adapter
Power Rating	15-25 VDC, 25 W
Display	
Type	Color LCD
Size	165 mm [6.5 in]
Resolution	VGA 640 × 480 pixels
Brightness	500 cd/m^2
Media	
Standard video	MPEG4 (H.264) 30 FPS
Autolog video	MPEG4 (H.264) Highly compressed format using a space saving frame rate optimized for pipe inspections
Photo	JPG
PhotoTalk™	MPEG4 (H.264) Single image with audio commentary
Audio	Integrated microphone and speaker

Specifications	
Transfer Method	2.0 USB
USB Ports	1 x 0.5 A (Port 1) 1 x 1.5 A (Port 2)
Internal Storage	128 GB Solid State Drive (SSD)
Connectivity	
Bluetooth	4.0
Wi-Fi	802.11 a/b/g/n
GPS	Integrated
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
Altitude	4,000 m [13,120 ft]

*The AC adapter is rated for 0°C to 40°C [32°F to 104°F]. Using the AC adapter may limit operation in extreme temperatures.

Standard Equipment
- SeeSnake CS65x
- AC Adapter
- 8 GB USB Drive (with HQ preloaded)
- Operator's Manual

Components

USB Port Cover

LCD

Keypad

USB Ports

Keyboard

Auxiliary Power Port for AC Adapter

Battery Shoe

Serial Number Label

Transmitter Clip-On Terminal

SeeSnake System Connection
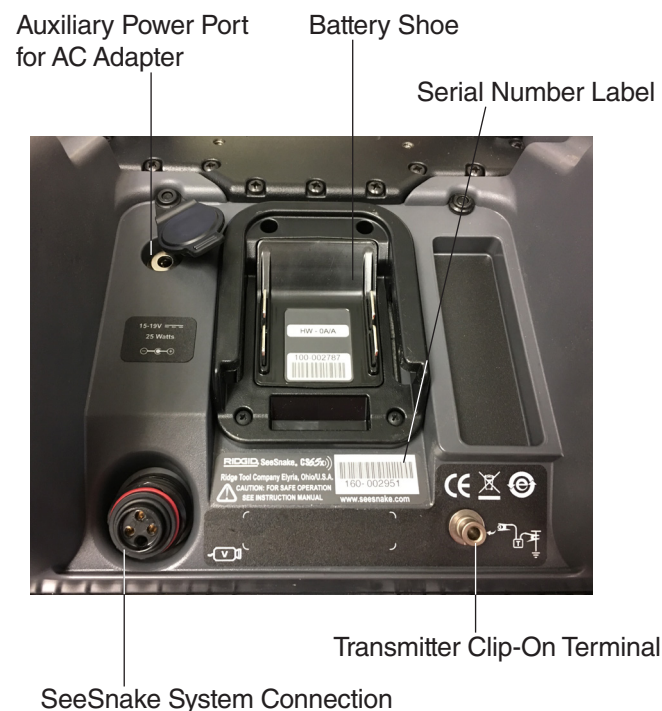
USB Ports

The CS65x supports up to two USB drives so you can create two copies of a job at the same time: one for your records and one for your customer. Keep the USB port cover closed to protect the USB drives and USB ports during inspections and transport.

USB Port 1

USB Port 2

USB Status LED   USB Micro B Port
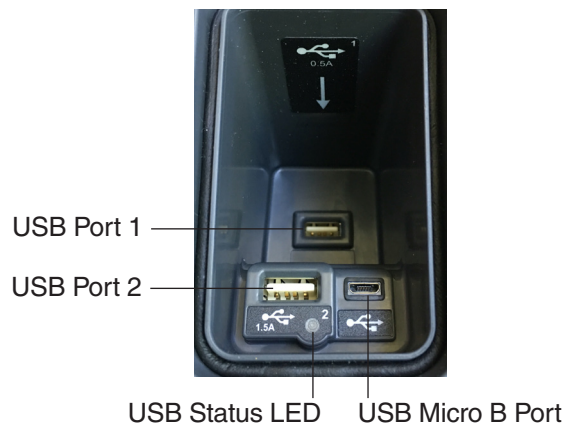
Note: If using a USB drive with higher power requirements, insert it into USB port 2.

rM200 Docking System

To dock the CS65x onto the rM200, follow these steps:

1. Depress the red buttons on the rM200 inward so that they do not obstruct the CS65x's unfolded kickstand.

2. Unfold the kickstand from the bottom of the CS65x, and place it onto the rM200.

3. Reset the red buttons on the rM200 so they lock the CS65x into place.

User Interface
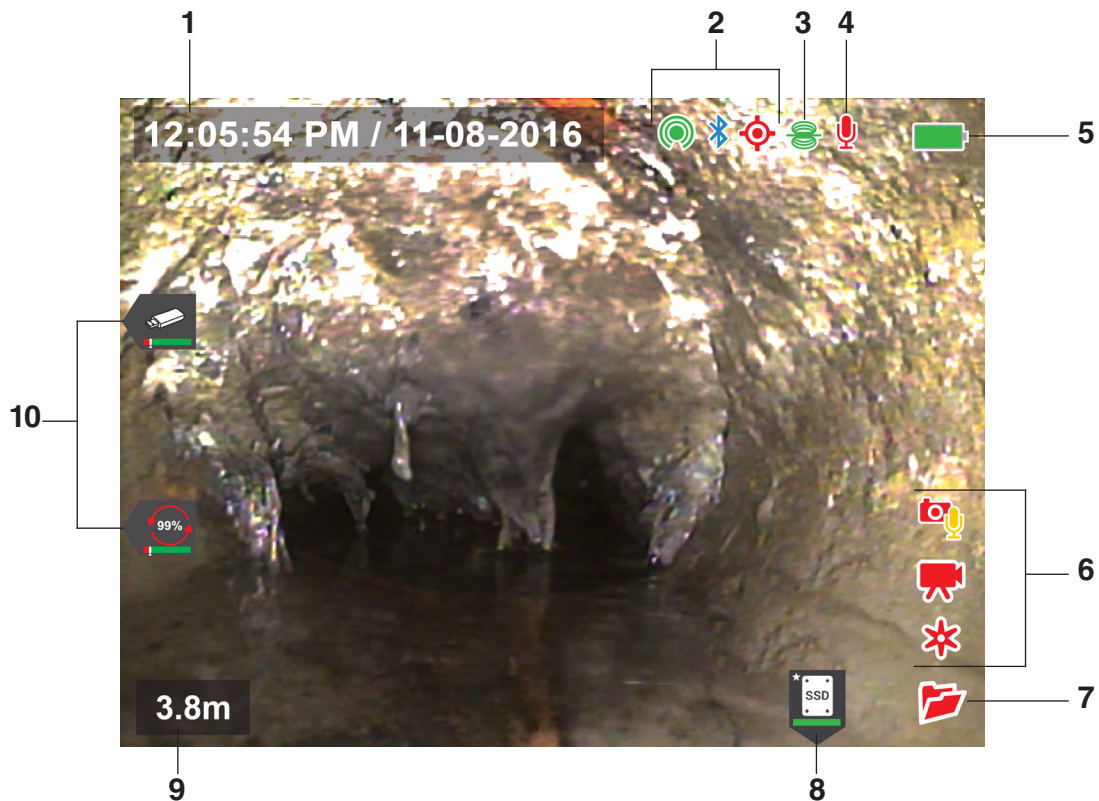
User Interface			
1	Time and Date Overlay	---	Options: Show time only, date only, both, or neither.
2	Connectivity	Wi-Fi not connected.	
		Wi-Fi connected.	
		Bluetooth enabled but not connected.	
		Bluetooth connected.	
		GPS icon flashes when acquiring satellite signal. Icon is solid when locked.	
3	Sonde	Sonde enabled and transmitting.	
4	Microphone	Microphone enabled.	
		Audio recording in progress.	
		Microphone disabled.	
5	Power	Battery power level indicator.	
		AC Power.	

User Interface		
6 Media Capture Icons		Photo captured.
		PhotoTalk™ created.
		Video recording.
		Video recording paused.
		Autolog video recording.
		Autolog video recording, motion detected.
		Autolog video recording paused.
7 Open Job		A job is open.
8 SSD Status		Internal SSD Storage. The star indicates that this is the primary storage.
		Media is being written to the SSD.
		Processing complete. All media has been saved to the SSD.
9 Count Overlay	---	Options: Show or hide count.
10 USB Status		USB drive inserted. **Safe to remove the USB drive.**
		Do not remove the USB drive! Media is being written to the USB drive. Premature removal of the USB drive may result in data loss and corruption.
		Blue brackets on corners indicate that the drive has priority and will complete processing first.
		Processing complete. **Safe to remove the USB drive.**

Keypad and Keyboard

Microphone   Caps Lock LED

Future Feature

Keypad

Keyboard

Keys and Functions			
Keypad	**Keyboard**	**Key Name**	**Function**
		Power	Power on and off.
	← Enter	Select / Pause	Select highlighted items and apply changes. When recording standard video or Autolog video, press to pause and resume recording.
		Menu	Open the menu. Press to exit out of tabs and screens.
	Esc	Escape	Press to exit out of tabs and screens.
		Photo / PhotoTalk™	Press to capture a photo or press and hold to create a PhotoTalk. Default key action can be swapped in the settings menu.
		Video	Start and stop standard video recording.
		Autolog	Start and stop Autolog video recording. Optionally press once to power on and start Autolog video recording simultaneously.
		Job Manager	Open the Job Manager to view the job list, create a new job, preview an existing job, enter company information, or delete jobs from the USB drive. Access storage and formatting options, and add default inspector contact information.
		LED Brightness	Control the brightness of the LEDs in the camera.

Keys and Functions			
Keypad	**Keyboard**	**Key Name**	**Function**
🎤	🔊▲ 🔉▼	Microphone Mute	Enable and disable the microphone.
🔲		Sonde	Enable and disable the sonde.
Ø		Zero	Long press (>3 seconds) to set the system measurement to zero at the beginning of an inspection. Short press (<1 second) to start and stop temporary segment measurements. The temporary segment measurement appears in brackets.
	✏T	Text	Add and edit custom overlay text during live view. The text overlay appears in captured media.
	▶	Play	Open the job review screen to review captured media, play back videos, add notes, enter customer and job location information, and preview the report for the open job.
	⏸	Pause	Pause media during playback. Does not pause video or Autolog video recording.
	📁+	New Job	Create a new job.
	📁	Close Job	Close the open job.
	📝	Edit Job	Open the job review screen.
	↦	Count Measurement	Toggle to show or hide the counter measurement display.
	🕐	Date/Time	Cycle the date/time display to show only the time, only the date, both, or neither.
	🔄 🔲 🌙 ◎ 🏷 ◀◀▶▶		Keys reserved for future features or product models.

Operating Instructions

This section contains important safety information that is specific to the RIDGID® SeeSnake® CS65x. Read these precautions carefully before using the CS65x to reduce the risk of electrical shock, fire, and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!

SeeSnake CS65x Safety

• **Read and understand this manual, the camera reel 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.

• **Do not operate the CS65x if you or the equipment are standing in water.** Operating the equipment while in water increases the risk of electrical shock. Rubber-soled, non-slip shoes can help prevent slipping and electrical shock on wet surfaces.

• **The battery shoe and other electrical equipment and connections are not waterproof.** Do not expose the equipment to wet locations.

• **Only power the CS65x with a compatible battery or AC adapter.** Use of any other battery may create a risk of fire and/or injury. When powered by a battery, protect the CS65x from exposure to weather.

• **The AC adapter is not waterproof and is intended for indoor use only.** To prevent electrical shock do not power the CS65x with an AC adapter outdoors or in wet conditions.

• **The CS65x is not designed to provide high voltage protection and isolation.** Do not use where a danger of high voltage contact is present.

• **Do not expose the CS65x to mechanical shocks.** Exposure to mechanical shocks can damage equipment and increases the risk of serious injury.

• **Carrying the system incorrectly can cause the CS65x to disengage from the docking system and may result in property damage and/or serious injury.** Never carry the rM200 by the CS65x's front cover handle when transporting the system. Always use the frame handle on the rM200.

Inspection Overview

⚠ WARNING

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 against dirt and other foreign objects.

The following is an overview of how to perform a pipe inspection with your CS65x:

1. Connect the CS65x to a SeeSnake camera reel with the system cable.

2. Press the Power key ⏻.

3. Carefully put the camera into the pipe. Protect the push cable from sharp edges at the pipe entrance.

4. Push the camera through the pipe and observe the display.

5. Depending on the requirements for the job, you may want to include one or more of the following:

   • Capture media.

   • Stream live video to your mobile device and share media with customers.

   • Locate an inspection point or path.

   • Take a temporary segment distance measurement.

   • Add custom overlay.

   • Review the job, captured media, and preview the report.

   • Sync to multiple USB drives.

   • Deliver a report to your customer.

Connecting to a Camera Reel

The CS65x can connect to any SeeSnake camera reel with the SeeSnake system cable.

1. Pull back the outer locking sleeve on the system cable connector.

2. Align the connector ridge and plastic guide pin with the socket and push the connector straight in.

3. Tighten the outer locking sleeve.

NOTICE **Only twist the outer locking sleeve. To prevent damage to the pins, never bend or twist the connector.**
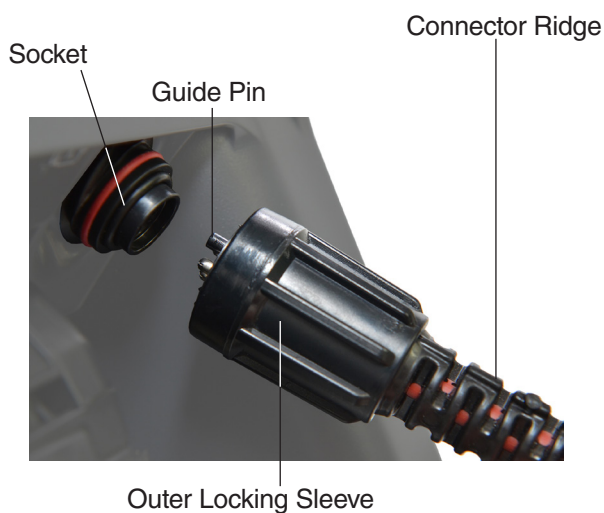
Powering the CS65x

NOTICE **Unexpected power loss may result in data loss and corruption.**

Battery run time will vary according to battery capacity and use. When copying lengthy jobs or large batches of jobs use an AC adapter.

Note: The AC adapter does not recharge the 18 V battery.

Capturing Media

You can save jobs and their captured media and reports to the 128 GB internal SSD, and/or sync with up to two USB drives. The CS65x automatically generates a report of the job which includes captured media, company and customer information, and notes.

Media is saved to the open job as it is captured. Only one job can be open at a time. Jobs can be reopened and added to later. The open job and captured media automatically save to the primary storage device.

About PhotoTalk™

A PhotoTalk combines a still image together with audio commentary in a small, email friendly, format for efficient sharing from the field.

Capturing Photos and Creating PhotoTalks

The Photo key 🔲 responds differently to being pressed versus pressed and held. You can choose which action captures a photo and which creates a PhotoTalk. To change the default behavior press the Menu key 🔲, go to CS65x settings 🔲 and select Photo key action.

About Autolog Video

Autolog videos are made of continuous audio recording and variable frame rate compressed video.

The Autolog key 🔴 can be used to quick-start an inspection. Press it when the system is off and it will power on the unit, create a new job, and start an Autolog video recording.

Recording Autolog Video

Press the Autolog key 🔴 to start and stop recording Autolog video. Pause and resume Autolog video recording by pressing the Select key 🔲.

Recording Standard Video

Press the Video key 🔲 to start and stop recording video. Pause and resume video recording by pressing the Select key 🔲.

Simul-Capture

Standard video and Autolog video can be recorded simultaneously and independently of each other. Both recording types can be started and stopped without affecting the other. Photos and PhotoTalks can be taken during video and Autolog video recording.

Custom Overlay

You can use custom overlay to advertise your company's name, note a job location, or enter other custom text. Custom overlay text is visible in live view and is burned onto captured media. The custom overlay appears on captured media until cleared.

To add custom overlay, follow these steps:

1. Press the Text key 🖊 .

2. Type your text.

3. Reposition the text if desired by selecting the move icon ✛, moving the text box to where you want it, and pressing the Select key ⊘ to place it.

4. Choose to make your text a custom overlay ☑🅃, a photo with a note ☑📷, or both ☑🅃☑📷.

To clear or edit the overlay, press the Text key 🖊 .

Locating the Sonde

Many SeeSnake camera reels have an integrated sonde which you can use to locate a point of interest in the pipe. The sonde is located in the spring and is assembled between the end of the push cable and the camera. The sonde transmits a locatable 512 Hz signal that can be detected by receivers such as the RIDGID® SeekTech® SR-20, SR-24, SR-60, Scout™, or NaviTrack® II.

Press the Sonde key 🔘 to enable and disable the sonde.
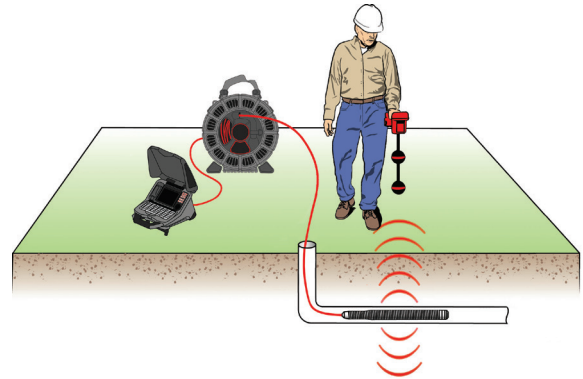
Note: For additional instructions on sonde locating, refer to the manual for the receiver model you are using.

Line Tracing the Push Cable

You can locate the path of a pipe by line tracing the push cable. This is especially useful for inspecting non-metallic or non-conductive pipes. Line trace the push cable by using a transmitter to induce current onto the push cable. For best results, use frequencies 33 kHz and higher.

To line trace the push cable, follow these steps:

1. Push the transmitter's ground stake into the ground and clip one of the transmitter's leads to it.

2. Clip the other lead to the transmitter clip-on terminal on the back of the CS65x.

3. Power on the transmitter and set your desired frequency. Power on the receiver and set it to the same frequency as the transmitter.

   Note: The transmitter may cause interference and can affect image quality.

4. Trace the line.
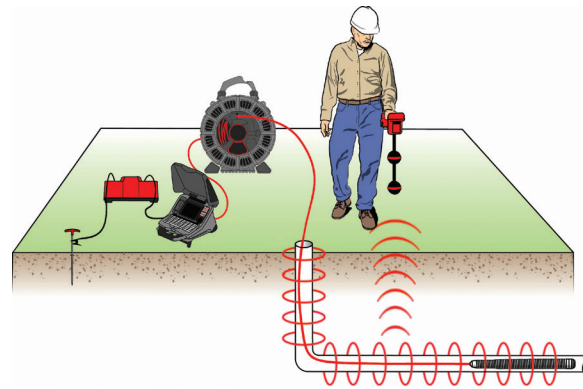
Note: For additional instructions on line tracing, refer to the manuals for the transmitter and receiver models you are using.

Reporting

One of the most valuable features of the CS65x is the ability to automatically build comprehensive, professionally formatted reports as you work, making it quick and easy to deliver reports to customers. Reports enhance the way you communicate the results of your inspections with customers. In many cases you can hand your customer a USB drive containing a report before leaving the job site, eliminating the time and effort of post editing a report.

Reviewing the Job

Press the Edit Job key to access to the job review screen.

Entering Job Details

You can add your company's information, customer information, and the job location in the Contact tab.

Adding Notes to Media

You can add notes to individual captures (photos, Photo-Talks, standard videos, or Autolog videos) from the job review screen.

Excluding Media

By default, all captured media is included in the job report. You can mark specific captures to be excluded from the report without deleting them from the job permanently. Only included media is accessible on the USB drive and in HQ.

To exclude media select settings and toggle between include and exclude.

Deleting Media

To permanently delete media from the job select setting and choose Delete. This action affects all synced storage devices.

Previewing the Report

You can deliver reports straight from your CS65x. It is a good idea to preview the report on the CS65x before delivering it to your customer. Access the report preview from the Report Preview tab.

Delivering Reports

To view a report as it will be seen by your customer, insert the USB drive into a computer and open the file named "report.html."

To further customize the report or make additional edits, insert the USB drive into a computer that has HQ installed.

Managing Jobs

Press the Job Manager key [icon] to access the Job Manager tabs.

Job Manager Tabs		
[icon]	Job List	Manage jobs on the primary storage device.
[icon]	USB Options	View USB capacity and usage information.
[icon]	Internal SSD Options	Contains a list of all the jobs on the internal SSD and displays the remaining space available. Permanently delete all jobs from the internal SSD.
[icon]	Job Settings	Add your company information and choose to have it automatically entered in reports. Set primary storage and sync preferences.

Job List

Creating a New Job

Press the New Job key [icon]. You have the option to name a new job. Jobs that you do not name will be named according to the date and time the job was created. Once you have created the job, it cannot be renamed.

When a new job is created, it becomes the open job.

Opening or Previewing a Job

You can open or preview jobs stored on the primary storage device from the Job List [icon].

- Open job saves newly captured media to the highlighted job.

- Preview job brings up the job review screen and displays all recorded media and any job or customer information that has been entered.

Searching for Jobs

To search for jobs on the primary storage device by customer name or job address go to the Job list and select Manage jobs [icon]. Then select Search [icon] and then enter your filter criteria.

Copying Jobs

To copy jobs from the primary storage device to a USB drive go to the Job list and select Manage jobs [icon]. Check the boxes next to the jobs you want to copy and then select Copy to USB [icon].

Deleting Jobs

To permanently delete jobs from the primary storage device go to the Job list and select Manage jobs [icon]. Check the boxes next to the jobs you want to permanently delete and then select Delete [icon].

USB and SSD Options

The Options tabs show the amount of space available on inserted USB drives and the SSD. The bar indicates the amount of space on the USB drive or SDD that is used (red) and available (green).
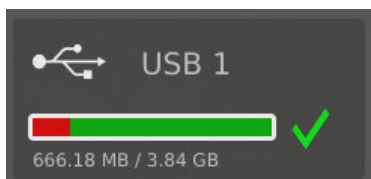
A star ★ indicates which device is being used for primary storage.

Job Settings

Adding Your Company Information

To add your company information so that it appears automatically in all job report headers, navigate to the Job Settings tab ⚙ and select Contact. Set Always in report to Yes.

Primary Storage Settings

You can set the system's job storage preferences so that captured media saves to the internal SSD or an inserted USB drive by default. Navigate to Primary job storage in the Job Settings tab ⚙ and cycle through SSD, USB 1, or USB 2.

Syncing Jobs

When Ask me is selected, you will be asked each time a new job is created if you want to sync the job or not.

If the open job is not synced to a USB drive at the beginning of the inspection, you can sync it later. Go to the USB drive you want to sync to in the Job Manager and select Start USB sync 🔄. A check mark ✔ indicates that syncing is complete and you can safely remove the USB drive.

System Settings

Press the Menu key ▦ to access the menu tabs and modify settings to your preference.

Menu Tabs		
⚙	CS65x Settings	Adjust volume, sound preferences, microphone default, photo key behavior default, and view your device's name.
⚡	Bluetooth Options	Enable and disable Bluetooth.
📶	Wireless Options	Enable and disable Wi-Fi.
🎛	Reel Options	Set when and how overlay details are displayed, measurement units, and default sonde settings.
📷	Camera Settings	Enable automatic gain correction and adjust hue, brightness, contrast, and saturation.
🖥	LCD Settings	Adjust LCD display brightness and contrast.
📅	Date/Time Options	Modify the date and time.
🎯	GPS Status	Enable and disable GPS.
🔋	Power Information	View power source.
🌐	Region Options	Change language and other locale specific settings.
𝑖	About	View software and hardware version information and restore system settings.

Software

Critical and routine software updates for the CS65x are released through HQ. Staying up to date with HQ software prolongs and improves the life and usefulness of your equipment.

Mobile Apps

You can download HQx companion apps for free on the App Store™ and Google Play™.

HQ for PCs

Use HQ to organize and edit jobs and media, store customer information, customize reports, generate DVDs, and distribute complete reports or media to customers.

The 8 GB USB drive included with your CS65x has HQ preloaded. Installing HQ from the included USB drive ensures that the serial number for your CS65x is correctly registered in the Equipment Locker. You can also download the latest version at www.hq.seesnake.com.
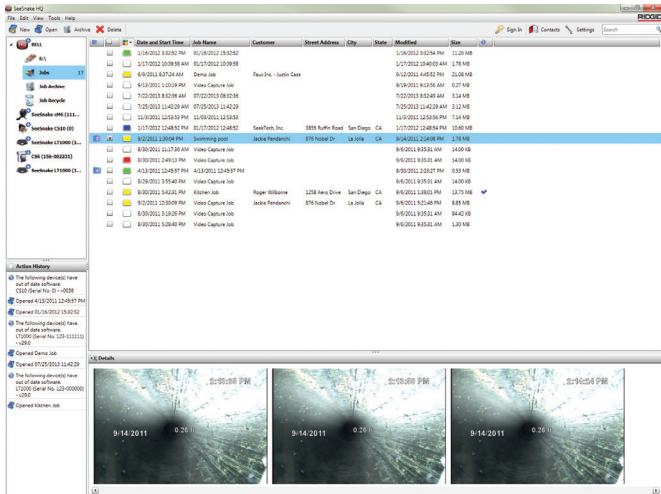
HQ can be installed on PCs running Windows 7 or later. The software is translated into over 15 languages and localized for use worldwide.

Enhanced Reporting with HQ

You can generate and email a printable PDF or create a multimedia job report for digital or DVD distribution. It is easy to customize the pre-built report styles to feature your company's logo and contact information. You can also add promotional or informational photos and video clips to reports.
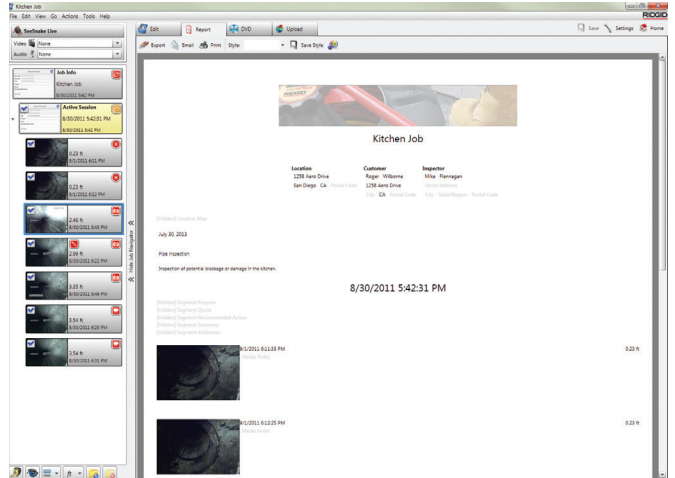
Content in HQ can be uploaded to RIDGIDConnect, an online service for storing and sharing inspection media and reports. Learn more at www.ridgidconnect.com.

Updating CS65x Software

Updates for your CS65x are released through HQ and transferred onto your unit with a USB drive. To download and install the update your USB drive must have:

- FAT32 formatting
- At least 2 GB available space
- An overall capacity less than 32 GB

To download an update onto a USB drive, go to the Updates drop-down menu in HQ and select Update Software for Device. Set the model to CS65x and click Select. HQ guides you through the update process.

Register your CS65x in HQ's Equipment Locker to be notified automatically when software updates are available.

Software Support

- Visit www.hq.seesnake.com.
- Email hqsupport@seesnake.com.
- Call toll free 888-477-5339.

Maintenance and Support

Cleaning

⚠ WARNING

To reduce the risk of electrical shock, disconnect all cords and cables and remove the battery or other power supply from the CS65x before cleaning.

The best way to clean the CS65x is with a damp cloth. Close the USB port cover before cleaning.

Do not allow any liquid to enter the CS65x. Do not hose down the CS65x. Do not use liquid or abrasive cleaners. Only clean the screen with cleaners approved for use on LCDs.

Accessories

Only use accessories designed and recommended for use with the SeeSnake CS65x. Accessories designed for use with other tools may become hazardous when used with the CS65x.

The following RIDGID products have been designed for use with the CS65x:

- SeeSnake MAX rM200
- Original SeeSnake Camera Reels
- SeeSnake MAX Camera Reels
- Dual Battery Kit with Charger
- Single Battery Kit with Charger
- SeekTech or NaviTrack/Scout Receivers
- SeekTech or NaviTrack Transmitters

Transport and Storage

Store and transport your CS65x with the following in mind:

- Store in a locked area out of the reach of children and people unfamiliar with its purpose.

- Store in a dry place to reduce risk of electrical shock.

- Store away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

- Storage temperature should be -20°C to 60°C [-4°F to 140°F].

- Do not expose to heavy shocks or impacts during transport.

- Remove the battery before shipping and before storing for extended periods of time.

Service and Repair

Improper service or repair can cause the CS65x to be unsafe to operate.

Service and repair of the CS65x must be performed at a RIDGID Independent Authorized Service Center. To maintain the safety of the tool, make sure a qualified repair person services your CS65x using only identical replacement parts. Discontinue using the CS65x, remove the battery, and contact service personnel under any of the following conditions:

- If liquid has been spilled or objects have fallen into the equipment.

- If the equipment does not operate normally when operating instructions are followed.

- If the equipment has been dropped or damaged.

- If the equipment exhibits a distinct change in performance.

For information on your nearest RIDGID Independent Service Center or any service or repair questions:

- Contact your local RIDGID distributor.

- Go to www.RIDGID.com.

- Contact RIDGID Technical Services Department at rtctechservices@emerson.com or, in the U.S. and Canada, call 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.

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

According to the European Guideline 2002/96/EC 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

RIDGID is licensed with the Call2Recycle® program, operated by the Rechargeable Battery Recycling Corporation (RBRC™). As a licensee, RIDGID pays the cost of recycling RIDGID rechargeable batteries.

In the U.S. and Canada, RIDGID and other battery suppliers use the Call2Recycle® program network of over 30,000 collection locations to collect and recycle rechargeable batteries. Return used batteries to a collection location for recycling. Call 800-822-8837 or visit www.call2recycle.org to find a collection location.

For EC countries: Defective or used battery packs/batteries must be recycled according to the guideline 2006/66/EC.

RIDGID

Troubleshooting		
Problem	**Probable Fault**	**Solution**
CS65x does not power on	Power source	Verify that the battery is a compatible model. Not all batteries that fit into the battery shoe are compatible.
		Recharge the battery.
		Switch to AC power.
Unable to capture media	No primary storage drive	Check primary storage drive settings.
		Insert a USB drive. Verify the USB drive you are using is working and not corrupted or read-only.
Primary storage not found	Drive not inserted	Verify that a drive is inserted in to the primary storage location.
No audio during playback	Speakers are muted	Verify the LED below the Microphone Mute key ⬛ is lit and the icon is yellow.
	Settings need adjustment	Go to the CS65x Settings tab to adjust the speaker volume and/or microphone gain settings.
The display is dark or hard to see	Glare on the display	Position LCD display facing away from direct sunlight.
	LCD settings	Go to the LCD Settings tab to adjust the LCD display settings.
	Camera LED settings	Press the LED Brightness key ⬛ to adjust the camera LED brightness.
Low battery warning appears	Low battery	Power off to avoid data loss. Recharge the battery or switch to AC power.
Count measurement accuracy is unreliable	The drum's integrated counter settings are incorrect for the drum or push cable	Verify the settings are correct for the cable length, cable diameter, and drum.
	Counting from the wrong zero point	Confirm measurement starts from the intended zero point. Reset zero point using the Zero key ⬛.

Troubleshooting		
Problem	**Probable Fault**	**Solution**
No live view	No power to the SeeSnake monitor	Check to make sure the battery is charged or the AC adapter is properly plugged in.
	Slip-ring assembly is broken or the connection is faulty	Check all alignment and connection pins.
		Check placement and pin condition in the slip-ring assembly.
	System cable connection is faulty	Check system cable connection. Make sure the connector is pushed all the way in.

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