

# SeeSnake® CS12x



## **! 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.



Companion Apps Available



For support and additional information about using your CS12x go to [support.seesnake.com/cs12x](https://support.seesnake.com/cs12x) or scan this QR code.



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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 (890-011-320.10) will accompany this manual as a separate booklet when required.

Directive 2014/53/EU		
Radio	Operating Spectrum/Power	
Bluetooth 4.0	2402 – 2480 MHz	14.20 dBm
Wi-Fi 802.11 b/g/n	2400 – 2483.5 MHz	19.90 dBm
Wi-Fi 802.11 a/n	5150 – 5250 MHz	20.46 dBm
	5250 – 5350 MHz	18.32 dBm
GPS	5470 – 5725 MHz	19.43 dBm
	1559 – 1610 MHz	

**FC** 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 battery packs and chargers in dry, appropriate temperature areas according to their documentation.** Extreme temperatures and moisture can damage battery packs and result in leakage, electrical shock, fire, or burns.
- **Do not probe the battery pack 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 pack; avoid contact.** If contact occurs, flush with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery pack may cause irritation or burns.
- **Properly dispose of battery packs.** Exposure to high temperatures can cause the battery packs 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 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 page 10.**

## SeeSnake CS12x Overview



### Description

The RIDGID® SeeSnake® CS12x Wi-Fi-enabled reporting monitor is an all-in-one solution for capturing media and delivering inspection results to your customers, all directly from the job site.

Built for speed and efficiency, the CS12x captures images and video directly to a USB drive. Connect a large capacity drive in the storage pocket to ensure you never run out of space. Professional multimedia reports are automatically created while you work, increasing your productivity and helping you move on to the next job.

The CS12x is compatible with all SeeSnake camera reels, and can dock onto the SeeSnake Max rM200 for easy transport. The system can be powered by up to two batteries or with the AC adapter and features a high resolution 307 mm [12.1 in] daylight viewable display.

Download HQx Live, the free iOS™ or Android™ companion app to use your mobile device as a second screen. Using the CS12x's built-in Wi-Fi, pair a smartphone or tablet to the CS12x to provide uninterrupted, high-quality video streaming directly on the device, letting you show your customers the inspection in real-time. HQx Live can also be used as a remote control for your system. You can capture media and control reel functions, like the sonde and counter, directly from your mobile device.

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.



Specifications	
<b>Weight without Power Source</b>	6.3 kg [13.9 lb]
<b>Dimensions</b>	
Depth	506 mm [19.9 in]
Width	394 mm [15.5 in]
Height	302 mm [11.9 in]
<b>Power Source</b>	One or two 18 V Li-Ion rechargeable battery packs or AC adapter
<b>Power Rating</b>	15-25 VDC, 35 W
<b>Display</b>	
Type	Color LCD
Size	307 mm [12.1 in]
Resolution	XGA 1024 × 768 pixels
Brightness	500 cd/m <sup>2</sup>
<b>Media</b>	
Standard video	MPEG4 (H.264)
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

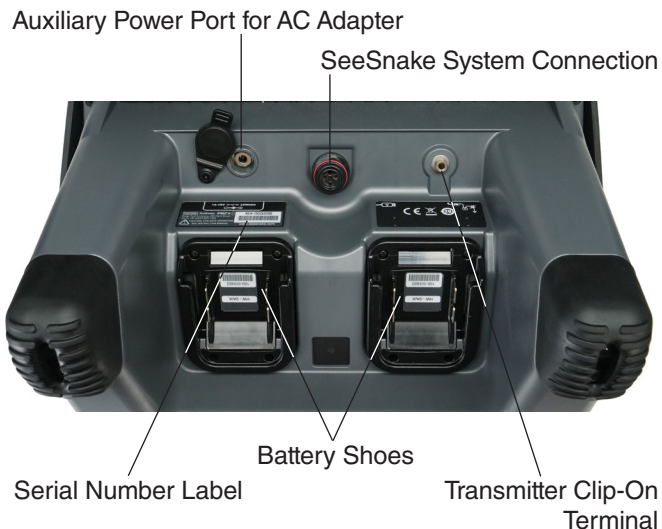
Specifications	
<b>Transfer Method</b>	2.0 USB
<b>USB Ports</b>	2 × 0.5 A
<b>Connectivity</b>	
Bluetooth	4.0
Wi-Fi	802.11 a/b/g/n
<b>GPS</b>	Integrated
<b>Operating Environment</b>	
Temperature*	-10°C to 50°C [14°F to 122°F]
Storage temperature	-20°C to 60°C [-4°F to 140°F]
Relative humidity	5 to 95 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 CS12x
- AC Adapter
- 8 GB USB Drive (with HQ preloaded)
- Operator's Manual



## Components



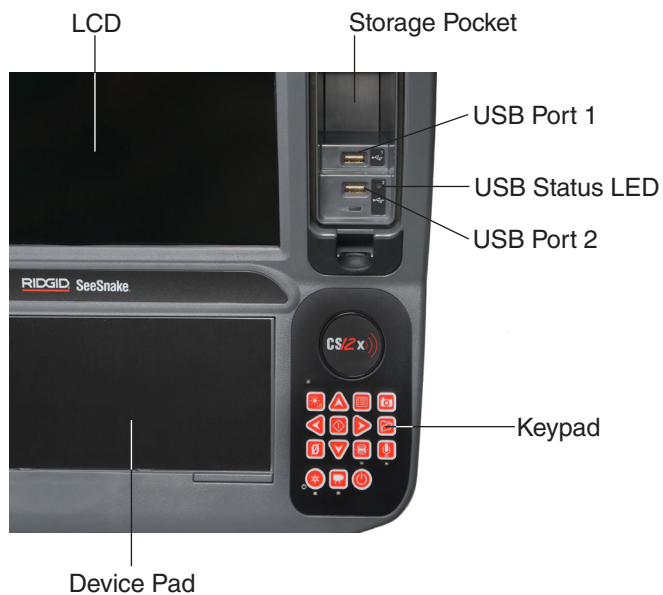
## USB Ports

The CS12x supports up to two USB drives so you can create two copies of a job at the same time. Keep the USB port cover closed to protect the USB drives and USB ports during inspections and transport.

## rM200 Docking System

To dock the CS12x onto the rM200, follow these steps:

1. Depress the red buttons on the rM200 inward so that they do not obstruct the CS12x's unfolded kickstand.
2. Unfold the kickstand from the bottom of the CS12x, and place it onto the rM200.
3. Reset the red buttons on the rM200 to lock the CS12x into place.



## Operating Instructions

### ⚠ WARNING



This section contains important safety information that is specific to the RIDGID® SeeSnake® CS12x. Read these precautions carefully before using the CS12x to reduce the risk of electrical shock, fire, and/or serious injury.

**SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!**

### SeeSnake CS12x 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 unit 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 system 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 monitor 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 system with an AC adapter outdoors or in wet conditions.
- **The monitor 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 unit to mechanical shocks.** Exposure to mechanical shocks can damage equipment and increases the risk of serious injury.
- **Carrying the system incorrectly can cause the CS12x to disengage from the docking system and may result in property damage and/or serious injury.** Never carry the rM200 by the CS12x's handle when transporting the system. Always use the 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 SeeSnake system:

1. Connect the monitor to a 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.
  - Review the job, captured media, and preview the report.
  - Deliver a report to a customer on a USB drive.

## Connecting to a Camera Reel

The CS12x 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 System

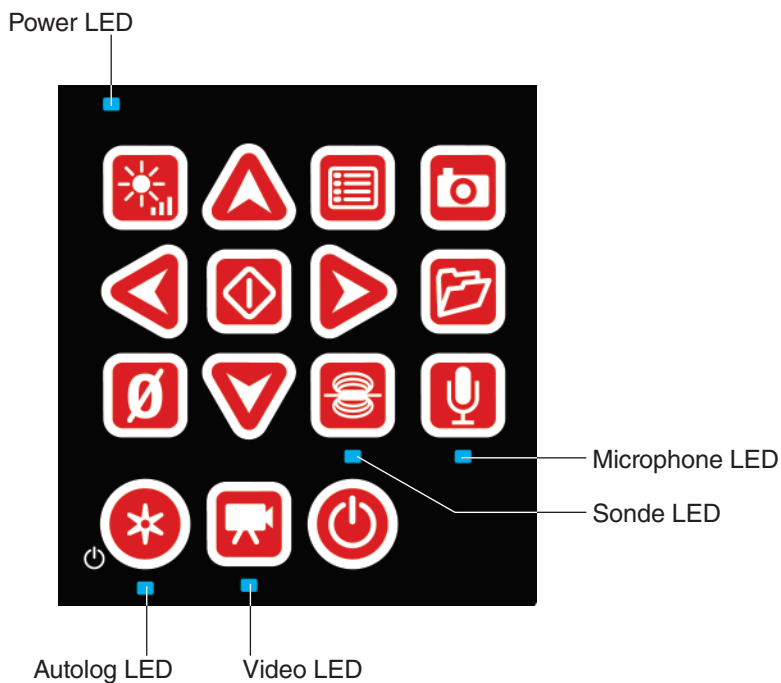
**NOTICE** Unexpected power loss may result in data loss and corruption.

The system is powered by one or two compatible 18 V Li-Ion rechargeable battery or an AC adapter. Battery run time will vary according to battery capacity and use.

Power settings are customizable in the Power Information menu.






*Note: AC adapter does not recharge battery packs.*

## Keypad



Keys and Functions		
Key	Name	Function
	Power	Power on and off.
	Arrows	Navigate through menus and screens and increase or decrease volume during playback.
	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 to modify settings, including connectivity, reel, camera, region, and more. 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.

### Keys and Functions
















Key	Name	Function
	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.
	LED Brightness	Control the brightness of the LEDs in the camera.
	Zero	Press and hold to set the system measurement to zero at the beginning of an inspection. Press to start and stop temporary segment measurements. The temporary segment measurement appears in brackets.
	Sonde	Enable and disable the sonde.
	Microphone Mute	Enable and disable the microphone.

## 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.
2	Connectivity		Bluetooth connected.
			GPS signal locked. Icon flashes when acquiring satellite signal.
3	Sonde		Sonde enabled and transmitting.
4	Microphone		Microphone enabled.
			Audio recording in progress.
			Microphone disabled.



User Interface		
5	Power	 Battery power level. Blue outline indicates active power source.
		 Battery not detected.
		 AC power.
6	USB Status	 Large capacity drive inserted. <b>Safe to remove drive.</b> Star indicates drive is primary storage.
		 USB drive inserted. <b>Safe to remove drive.</b>
		 <b>Do not remove drive!</b> Media transfer in progress. Premature removal may result in data loss and corruption. Blue brackets indicate drive has processing priority.
		 Media transfer complete. <b>Safe to remove drive.</b>
7	Media Capture	 Photo captured.
		 PhotoTalk™ media created.
		 Video recording.
		 Video recording paused.
		 Autolog video recording.
		 Autolog video recording, motion detected.
		 Autolog video recording paused.
8	Open Job	 A job is open.
9	Count Overlay	--- Options: Show or hide count.



## Maintenance and Support

### Product Support

- Go to [support.seesnake.com/cs12x](http://support.seesnake.com/cs12x)
- Email [support@seesnake.com](mailto:support@seesnake.com)
- Call toll free 888-477-5339

### Software Updates

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

### Cleaning

#### ⚠ WARNING



**To reduce the risk of electrical shock, disconnect all cords and cables and remove the battery or other power supply from the CS12x before cleaning.**

The best way to clean the unit is with a damp cloth. Close the USB port cover before cleaning. Do not hose down or allow any liquid or moisture to enter the unit. Do not use liquid or abrasive cleaners. Only clean the display with cleaners approved for use on LCDs.

## Accessories

**Only use accessories designed and recommended for use with the CS12x. Accessories designed for use with other tools may become hazardous when used with the CS12x.**

The following RIDGID products have been designed for use with the CS12x:

- 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 system 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 CS12x to be unsafe to operate.**

Service and repair of the CS12x must be performed at a RIDGID Independent Authorized Service Center. To maintain the safety of the monitor, make sure a qualified repair person services your unit using only identical replacement parts. Discontinue using the CS12x, 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](http://www.RIDGID.com).
- Contact RIDGID Technical Services Department at [rttechservices@emerson.com](mailto:rttechservices@emerson.com) or, in the USA 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.



**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 USA 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](http://www.call2recycle.org) to find a collection location.

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

Troubleshooting		
Problem	Probable Fault	Solution
System does not power on	Power source	Verify that the battery pack is compatible. Not all battery packs that fit into the battery shoe are compatible.
		Recharge battery pack.
		Switch to AC power.
Unable to capture media	No USB drive inserted	Insert a USB drive. Verify USB drive is working and not corrupted or read-only.
No audio during playback	Speakers are muted	Verify LED below the Microphone Mute key  is lit and that icon is yellow.
	Settings need adjustment	Go to CS12x Settings to adjust speaker volume and/or microphone gain settings.
Display is dark or hard to see	Glare on the display	Position LCD facing away from direct sunlight.
	LCD settings	Go to LCD Settings to adjust display settings.
	Camera LED settings	Press the LED Brightness key  to adjust camera LED brightness.
Count measurement accuracy is unreliable	The drum's integrated counter settings are incorrect for the drum or push cable	Verify settings are correct for cable length, cable diameter, and drum.
	Counting from the wrong zero point	Confirm measurement starts from intended zero point. Reset zero point using the Zero key  .
No live view	Slip-ring assembly is broken or 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 connector is properly connected.



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