



ADVANCED PRODUCT GUIDE

Small footprint. A complete inspection record.

Set up the Compact M40, control the push cable and turn a pipe view into a traceable customer handoff.

The reel sees. The monitor records.

The Compact M40 carries the camera, push cable and sonde. A compatible monitor supplies the viewing and recording workflow. Establish the access point, distance reference and recording destination before the camera disappears into the pipe.





PREPARE THE WORK

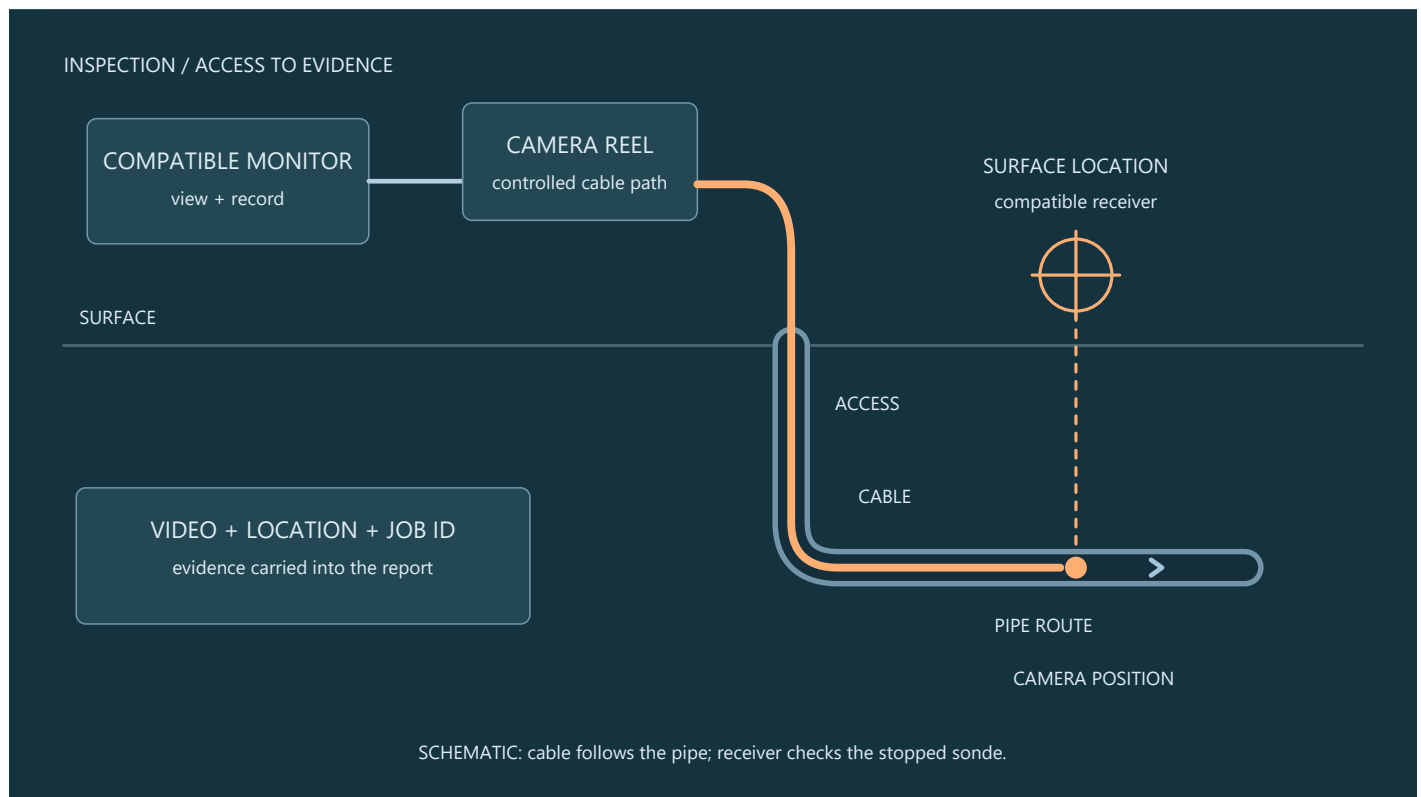
A safe, complete setup.

Inspect the camera, cable jacket, connections and power equipment before use. Isolate power before connecting, adjusting or cleaning equipment.

Keep power connections dry and do not operate while standing in water. Use the power supply and electrical protection specified for the selected controller.

Wear appropriate drain-work gloves and eye protection; keep contaminated equipment away from food and wash hands after handling.

Advance gently. An inspection camera does not clear a blockage; stop when resistance increases rather than forcing the head or cable.





FIELD PROCEDURE

Prepare and begin.

01 Establish a dry, stable station

Place the reel near the entrance where the drum can rotate freely and you can see the monitor while controlling the cable. Inspect the cable jacket, camera and connections. Keep the power arrangement dry and address damaged equipment before starting. (Reel manual pp.9-10.)

02 Route the camera through all three guides

If the head is stored inside the drum, press the spring-clip tab outward into its locked-open routing position. Bring the camera through the inner guide and both outer guides. Return the spring clip to its normal operating position before inspection. Do not leave the cable bypassing a guide. (p.10.)

03 Connect and secure the display

With power isolated, align the connector guide pin and ridge, insert straight and rotate only the outer locking sleeve. Never twist the connector body. If docking a CS6x Versa, align the docking fins and sockets and seat both locks; carry the assembly by the reel frame handle, never the monitor or kickstand. (p.11.)

04 Establish the job and distance reference

On the selected monitor, prepare the recording medium and confirm a usable live image before entering the pipe. Record the access point and units. CS6x Versa example: hold Zero for more than three seconds for system zero; a press shorter than one second toggles a temporary segment measurement shown in brackets. Do not silently reset the job origin mid-run. (CS6x Versa pp.12-15.)



FIELD PROCEDURE

Inspect, save and finish.

05 Advance with short, controlled pushes

Keep a hand near the entrance and avoid unsupported loops. Watch the image as you advance; slow down at bends and transitions. Select suitable pipe guides to center the camera and keep the lens clearer. Stop at rising resistance; withdraw and reassess instead of using the head to dislodge material. (Reel manual p.11.)

06 Record an observation the customer can find again

Use the monitor recording controls and verify that capture has started. Pause forward movement at an observation to obtain a stable view; identify the feature, distance and direction in narration or job notes. Adjust illumination to reveal the surface rather than washing it out. Camera pitch is a head-orientation aid, not proof of pipe grade.

07 Locate the sonde at the observation

With the camera stationary, enable its 512 Hz sonde through the monitor. On a CS6x Versa, the Sonde key toggles transmission. Set the separate compatible receiver to 512 Hz sonde mode and follow its locating procedure; confirm alignment and repeatability before recording a mark or depth. Recheck after moving the camera. (CS6x Versa p.13.)

08 Save, retrieve and clean

Stop capture, finish the job and wait for storage activity to finish before removing media. Check playback. Pull the cable back slowly and steadily, wipe it as it returns and feed short lengths into the drum. Power down and isolate before cleaning. Use soft cloths, a soft nylon brush and appropriate mild cleaning products; never a pressure washer or solvents. (Reel manual pp.11,13.)



MANUFACTURER REFERENCE

The controls, in context.



Spring clip: operating position

Return to this position after routing the head through the guides. The clip controls the cable during use.

Compact M40 / M40 DSL manual, June 2025, PDF p.10.



Spring clip: temporary routing position

Locked open lets the head pass during setup. Complete the routing sequence before returning to the operating position.

Same manual, PDF p.10.



MANUFACTURER REFERENCE

The controls, in context.



Align, insert, lock the sleeve

The outer sleeve secures the connector. Twisting the cable or connector body can damage the connection. Pictured monitor: CS6x Versa.

Same manual, PDF p.11.



Read the recording interface

Manufacturer interface key for the optional CS6x Versa. The example values and collected icons explain display areas; they are not a live job or a pass/fail result. Check capture and USB-writing status on your own display.

CS6x Versa manual, October 2024, PDF p.14.



FIELD JUDGEMENT

Know what to check.

A reel is not a recorder

Monitor selection determines media, job handling and exact button behavior. Verify the actual kit before preparing the workflow.

Pitch is not pipe slope

TruSense orientation describes the camera head. Bends, guides and head position can affect it; avoid turning a displayed angle into an unsupported grade measurement.

Preserve the point of reference

If a temporary counter segment is used, identify where it began. The customer should be able to follow the same access-to-observation sequence.

If the result is not right

No image after connection

Power down and inspect connector alignment and locking sleeve engagement. Confirm monitor power and compatibility, then restart. Do not rotate the connector body or probe energized contacts.

Push cable bows outside the pipe

Stop feeding, reduce the exposed loop and reposition the reel nearer the entrance. Increasing force stores energy in the cable and does not resolve a blocked route.

Location will not repeat

Confirm sonde transmission, 512 Hz receiver mode and a stationary head. Re-establish the receiver orientation using its manual and note nearby interference. Do not report an uncertain depth as confirmed.



HANDOFF & SOURCES

Leave a usable record.

- ☐ Job address, access point and direction of inspection.
- ☐ Reel and monitor models, recording date, and operator.
- ☐ Distance origin, units and any point where the counter was reset.
- ☐ Saved video and stills with observations tied to distance or a recognizable feature.
- ☐ Extent actually inspected, remaining obstructions and areas not visible.
- ☐ Sonde frequency and surface marks, with locating limitations recorded.
- ☐ Open the delivered files and check that picture, narration and key observations are present.

Scope and source editions

For the non-DSL Compact M40 with TruSense. The CS6x Versa controls below apply only when that monitor is connected; use the matched monitor manual for other configurations. Product imagery shows an example with an optional monitor, not a statement of kit contents.

The current reel manual covers DSL and non-DSL variants; this guide does not assign DSL-only capability to the catalog Compact M40.

CS6x Versa controls are explicitly identified because a reel does not determine recording-button behavior.

[SeeSnake Compact M40 / M40 DSL Operator Manual](#)

[SeeSnake CS6x Versa Operator Manual](#)

[Compact M40 original product photograph](#)

Manufacturer figures are reproduced from the linked references. Landscape art is AI-created context; the workflow diagram explains relationships and is not a recorded inspection or test result. Independent handoff checks are Drain Equipment Supply recommendations.



ADVANCED PRODUCT GUIDE

Set the job. Record the evidence. Verify the handoff.

Configure the correct reel, choose storage before recording and leave the customer with a video that explains what happened underground.

A controller workflow with a deliberate start and finish.

The H12+ brings the live view, reel configuration, overlays and recording into one station. Correct reel selection establishes the counter calibration; media and microphone settings establish what the customer actually receives.





PREPARE THE WORK

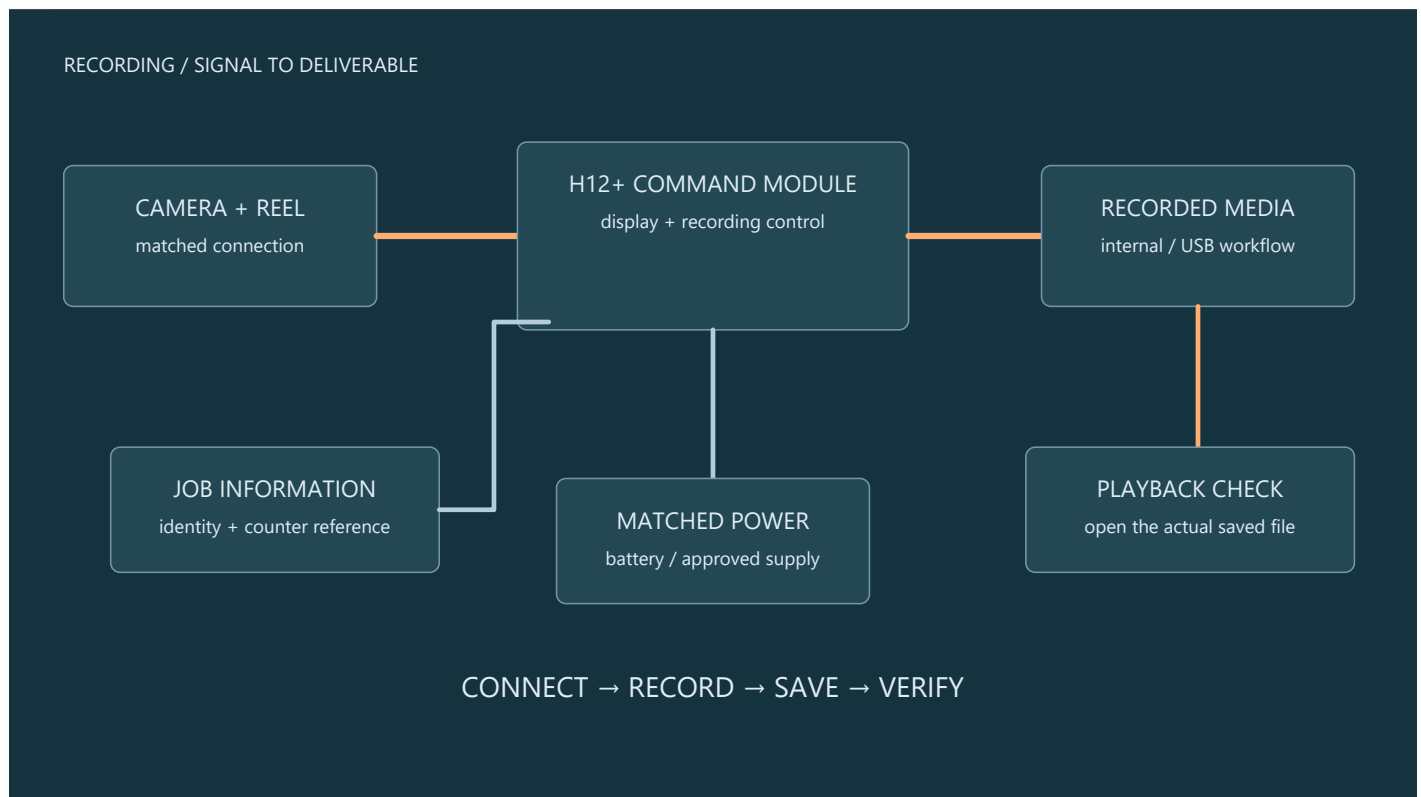
A safe, complete setup.

Inspect the camera, cable jacket, connections and power equipment before use. Isolate power before connecting, adjusting or cleaning equipment.

Keep power connections dry and do not operate while standing in water. Use the power supply and electrical protection specified for the selected controller.

Wear appropriate drain-work gloves and eye protection; keep contaminated equipment away from food and wash hands after handling.

Advance gently. An inspection camera does not clear a blockage; stop when resistance increases rather than forcing the head or cable.





FIELD PROCEDURE

Prepare and begin.

01 Inspect and connect the system

Prepare a stable, dry viewing station and inspect the reel, head, flex neck, cable and leads. With power isolated, connect the compatible reel and approved controller power arrangement. Keep electrical connections clear of wet work and confirm a live picture before entry. (Manual pp.6-7,17.)

02 Select the actual reel and pushrod

Open MENU / HOME, choose Reel Size Options and select the size matching the connected equipment. The manual requires this for counter calibration and says the selection persists after restart. Confirm it again when changing reels; do not assume the previous operator chose correctly. (pp.8-11.)

03 Set units, time and recording media

Open Controller Settings. Choose distance units, check the date and time and select USB, HDD or USB and HDD. Insert suitable USB storage if it is part of the destination. The illustrated settings are examples, not required values for every job. (pp.9,11,15.)

04 Identify the job and zero at the entrance

Use the keyboard overlay and infobar for the customer, location or inspection direction. Remember that visible overlay text becomes part of the recording. Check for leftover job text, then use Counter Reset at the chosen distance origin. Record where that origin is. (pp.10,12.)



FIELD PROCEDURE

Inspect, save and finish.

05 Start capture and control the inspection

Press Video Recording and check the recording notification and selected storage. Use the MIC key to set narration deliberately: green means on and red means off in this manual. Adjust LED brightness for visible pipe detail. Push slowly, avoid flex-neck kinks and stop at resistance; leave a few turns of pushrod on the reel rather than unspooling it completely. (pp.12,15,17.)

06 Document and locate the feature

Pause forward movement for a stable view and use the screenshot key for a JPEG when useful. To locate, select the intended 512 Hz or 640 Hz sonde frequency in settings, then press Sonde to transmit; check the green active-frequency infobar. Set the separate receiver to that same frequency and follow its orientation and locating procedure with the head stationary. Repeat after moving the head. (pp.12,15,18.)

07 Stop, save and play back

Press STOP to finish the recording and wait for the save confirmation. Open MENU, File Storage Options, select the dated folder and file, and use the displayed playback options. Verify useful picture and narration before concluding the visit. Preserve a verified customer copy before deleting any source file. (pp.15-16.)

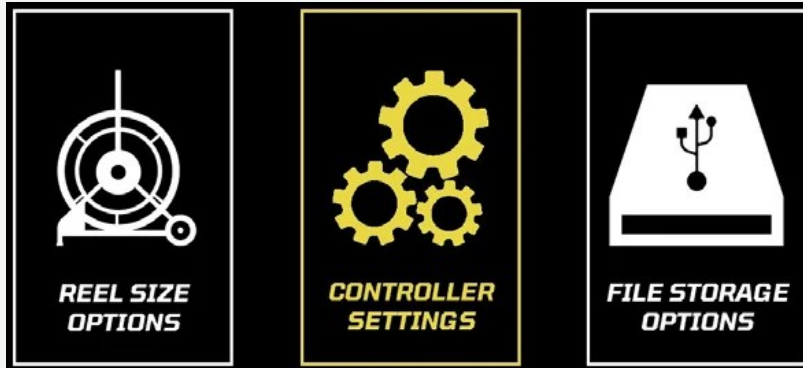
08 Recover and clean the equipment

Retrieve slowly while wiping the pushrod and avoiding kinks in the camera flex neck. Power down and isolate before cleaning. Use a soft damp cloth and clean the camera after the inspection; never use a pressure washer. Inspect damage before packing and keep contaminated equipment separated from clean work materials. (pp.17,19.)



MANUFACTURER REFERENCE

The controls, in context.



Three menu destinations

Reel Size Options, Controller Settings and File Storage Options separate calibration, capture preparation and saved-media review.

H12+ manual 1.0.0-NA-EN-20250410, PDF p.8.

Brightness	5
Contrast	5
Launguage	English 
Sonde selection	512Hz
Footage counter units	Feet
Storage type	USB & HDD
Date/Time set	09:58 11/24/2022
Battery Extender	On
Odometer	525'

Set the capture conditions before recording

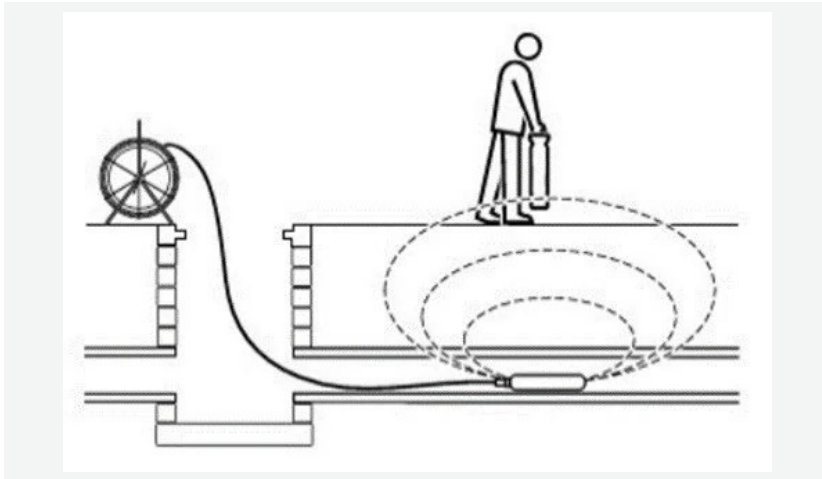
Original manufacturer settings panel. Select the actual units, sonde frequency and storage destination for your job; the pictured date and numerical values are examples.

Same manual, PDF p.11; exact settings figure cropped from the page.



MANUFACTURER REFERENCE

The controls, in context.



Locate the transmitting head

Original manufacturer sonde diagram. Receiver orientation and position matter; the drawn field is explanatory and is not a site measurement or a depth guarantee.

Same manual, PDF p.18.

Carry this into the field.

The selected reel affects the counter

Correct reel and pushrod selection is a setup prerequisite, especially when the command module moves between reels.

What is on screen can be in the file

Check old customer text and infobar entries before capture. A clean, accurate overlay makes the recording easier to interpret.



FIELD JUDGEMENT

Know what to check.

The microphone needs its own check

A moving image does not confirm narration. Read the MIC state and listen to a playback sample.

Save to the intended medium from the start

Choose USB, HDD or both before recording. This avoids depending on a post-job copy sequence to create the first customer copy.

If the result is not right

Counter appears inconsistent

Recheck the selected reel, pushrod size and distance units. Confirm where Counter Reset was pressed, then establish and document a new reference if needed.

Video exists but narration is missing

Check the MIC state and replay a new short sample with green/on selected. Existing silent footage cannot recover audio that was never captured.

Receiver finds no reliable sonde signal

Confirm transmission is enabled and read the active frequency in the infobar. Match the receiver to 512 Hz or 640 Hz as selected, hold the camera still and repeat the receiver locating procedure. Do not infer a confirmed depth from an unstable response.

**HANDOFF & SOURCES**

Leave a usable record.

- ☐ Job address, access point and direction of inspection.
- ☐ Reel and monitor models, recording date, and operator.
- ☐ Distance origin, units and any point where the counter was reset.
- ☐ Saved video and stills with observations tied to distance or a recognizable feature.
- ☐ Extent actually inspected, remaining obstructions and areas not visible.
- ☐ Sonde frequency and surface marks, with locating limitations recorded.
- ☐ Open the delivered files and check that picture, narration and key observations are present.
- ☐ Selected H12+ reel/rod setting and recording destination.

Scope and source editions

For H12+ firmware and controls described in manual 1.0.0-NA-EN-20250410. Pair with the actual compatible Hathorn reel and approved power arrangement. The product photo shows a complete example system; the command module alone does not include that reel or a locating receiver.

Control names and behavior follow H12+ manual version 1.0.0-NA-EN-20250410.

The manual page 16 copy/rename paragraphs repeat deletion instructions; this guide intentionally uses destination selection before capture and verified playback, without reproducing that inconsistent sequence.

The locating figure is an original manufacturer diagram, not a field photograph.

Hathorn H12+ Controller User Manual

Hathorn H12+ product page

Manufacturer figures are reproduced from the linked references. Landscape art is AI-created context; the workflow diagram explains relationships and is not a recorded inspection or test result. Independent handoff checks are Drain Equipment Supply recommendations.



ADVANCED PRODUCT GUIDE

Make a longer inspection easy to follow.

Build a stable station, manage a longer push cable and preserve the evidence from access point to final observation.

Reach depends on the route.

A longer cable provides capacity, but turns, pipe condition and access geometry determine the usable inspection. A controlled feed and a consistent distance reference matter more than reaching the end of the reel.





PREPARE THE WORK

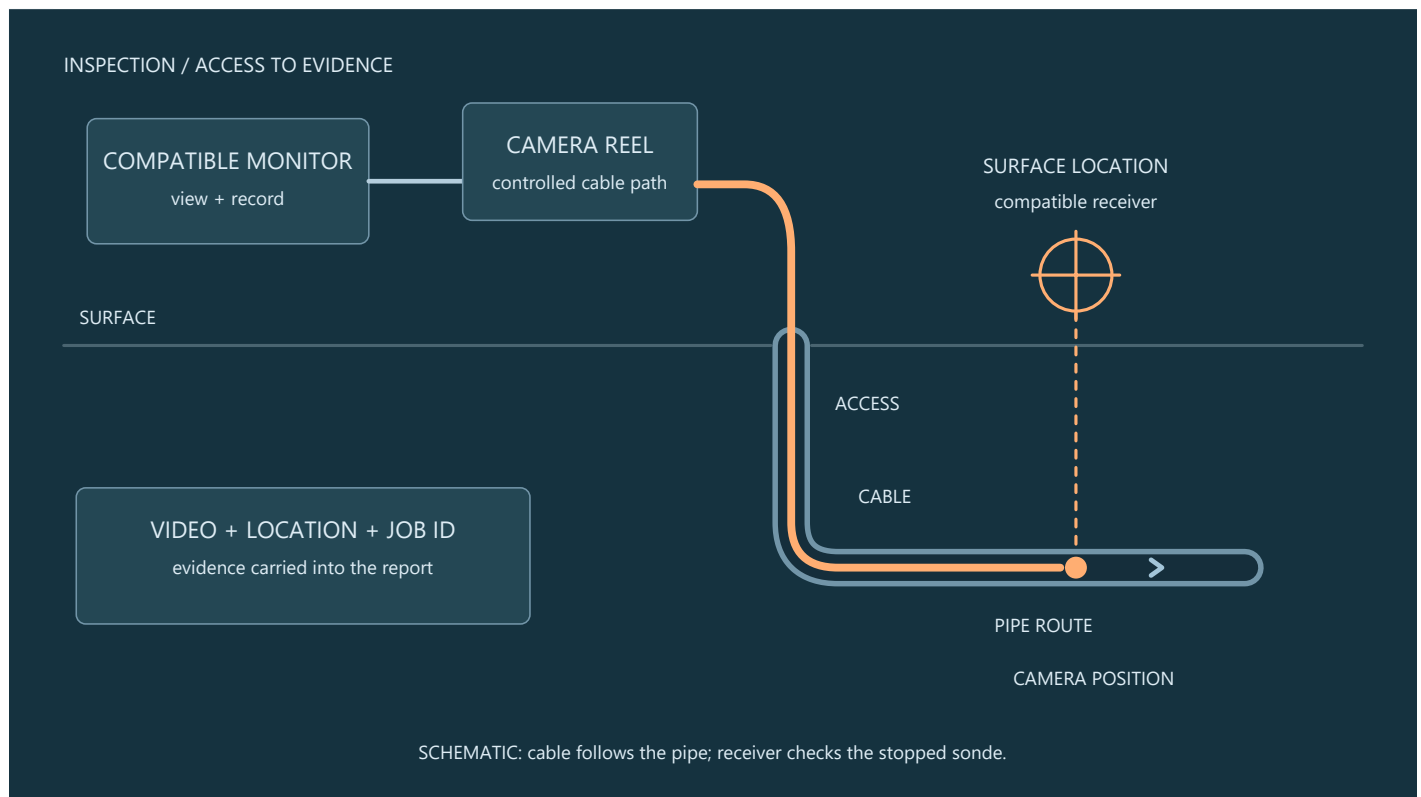
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Keep power connections dry and do not operate while standing in water. Use the power supply and electrical protection specified for the selected controller.

Wear appropriate drain-work gloves and eye protection; keep contaminated equipment away from food and wash hands after handling.

Advance gently. An inspection camera does not clear a blockage; stop when resistance increases rather than forcing the head or cable.





FIELD PROCEDURE

Prepare and begin.

01 Match the reel to the route

Confirm the actual camera-head and cable configuration, accessible entrance and likely pipe route. Inspect the frame, camera spring and cable for damage. Do not assume that full cable length is achievable through every pipe geometry. (Manual pp.7-9.)

02 Set the frame and drum

Place the unit near the entrance with room to see the monitor and guide cable by hand. Allow the drum to turn freely and set the push-cable brake appropriately. The manufacturer also shows laying the unit on its back for stability; use a secure position suitable for the work surface. If fitting wheels, follow the assembly drawing for your axle revision. (pp.9-11.)

03 Make the monitor connection

With power isolated, align the guide pin and ridge, insert the system connector straight and tighten the outer locking sleeve. Do not rotate the body. Connect and power the compatible monitor according to its own instructions; confirm the live image before pushing. (p.11.)

04 Open the job at the entrance

Select the recording destination, confirm capacity and capture a short playback check. Record the job name, access, direction and units. If using CS6x Versa, a Zero hold longer than three seconds resets system distance; a short press toggles the bracketed segment counter. Establish the origin deliberately. (CS6x Versa pp.12-15.)



FIELD PROCEDURE

Inspect, save and finish.

05 Feed cable under control

Advance slowly while watching the picture. Keep the outside cable supported in short lengths and avoid kinks, sharp entry angles and large loops. Use suitable pipe guides when needed to center the head. Stop and reassess increased resistance; the camera is not a cleaning tool. (Standard manual p.11.)

06 Capture each observation clearly

Stop forward movement for a steady view of joints, changes in material or visible defects. Capture video and selected stills using the matched monitor controls, and connect each observation to distance and direction. Describe what is visible and identify obscured areas. Do not infer an unseen condition or convert head pitch directly into pipe grade.

07 Confirm the surface location

Stop the head at the feature, enable its 512 Hz sonde and set the separate receiver to the matching sonde mode. CS6x Versa uses its Sonde key to toggle transmission. Follow the receiver procedure to confirm position and alignment before logging depth; repeat the locate if the head moves. (CS6x Versa p.13.)

08 Close the record and recover the cable

Stop recording and wait for writing to finish; verify files before removal or delivery. Retrieve with slow, steady tension and wipe the cable as you feed short lengths back into the drum. Isolate power before cleaning and inspect the jacket again. Use gentle cleaning, never high-pressure washing. (Standard manual pp.11-13.)



MANUFACTURER REFERENCE

The controls, in context.



Work close to the pipe entrance

The manufacturer setup keeps the feed under hand control and the display in view. The photo shows its own monitor configuration; use the controls for the monitor on your job.

Standard with TruSense manual, April 2024, PDF p.11.



Protect the system connector

Align the keyed connection before insertion. Turn the outer locking sleeve, not the connector body or cable.

Same manual, PDF p.11.



MANUFACTURER REFERENCE

The controls, in context.



Optional CS6x Versa display reference

Manufacturer interface key showing where status and measurement information appear. Example icons and numbers are explanatory, not a real inspection result or a command sequence.

CS6x Versa manual, October 2024, PDF p.14.

Carry this into the field.

Choose the matched assembly drawing

The current Standard manual uses a slotted-screw and domed-endcap wheel arrangement. Earlier hardware may differ; do not combine axle procedures across revisions.

Fixed and self-leveling are options

Confirm the purchased head before describing the image behavior. TruSense is not a guarantee that every Standard kit has the same head.



FIELD JUDGEMENT

Know what to check.

Cable distance is a path measurement

The cable follows the pipe and may have slack. It is useful for referencing footage but does not replace a surface locate or a surveyed coordinate.

If the result is not right

Drum will not feed normally

Stop pushing. Check brake engagement, reel stability and whether cable is caught outside the drum. Correct the setup before applying more force.

Distance no longer matches the job notes

Determine whether a system reset or temporary segment was used. Preserve the original notes and identify the changed reference rather than assigning earlier observations a new origin.

Image is bright but detail disappears

Stop movement, clean the accessible lens when safe and adjust the selected monitor illumination. Record that visibility is limited if water or deposits continue to obscure the pipe.



HANDOFF & SOURCES

Leave a usable record.

- ☐ Job address, access point and direction of inspection.
- ☐ Reel and monitor models, recording date, and operator.
- ☐ Distance origin, units and any point where the counter was reset.
- ☐ Saved video and stills with observations tied to distance or a recognizable feature.
- ☐ Extent actually inspected, remaining obstructions and areas not visible.
- ☐ Sonde frequency and surface marks, with locating limitations recorded.
- ☐ Open the delivered files and check that picture, narration and key observations are present.

Scope and source editions

For SeeSnake Standard with TruSense, not the newer Standard DSL. Camera-head and cable-length options vary. The CS6x Versa is an explicitly named controller example; no monitor or locator is implied to be included.

Current April 2024 Standard with TruSense manual is the operating source; earlier wheel-assembly instructions were not reused.

Monitor controls are conditional. The imagery and procedure do not establish kit contents or DSL functionality.

[SeeSnake Standard with TruSense Operator Manual](#)

[SeeSnake CS6x Versa Operator Manual](#)

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