

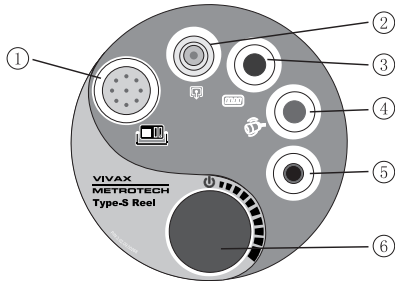
Power Supply

The Type-S reel can be powered by three methods:

- 1. Directly via typical household current. The typical charge time is three hours which will provide four hours continuous use. The red LED indicator above the power socket will blink while charging and turn off when fully charged.
- 2. By 12V DC source such as a vehicle or generator.
- 3. By charged internal batteries.



Controls on Type-S Reel



1	Interconnect Socket (to connect vCam-5 control module)
2	Video Out Socket
3	Distance Reset Control (distance is shown on viewer's display)
4	Sonde On/off Control
5	Power On Indicator
6	Power On/off and LED Dimmer/Brightness Control (for pushrod camera)

Installing the Camera Head



NOTE
Always power off the unit before installing or changing camera heads. Camera head should be hand tightened only. Mechanical tools should only be used to remove the camera head as a last resort.

- 1. Hold the spring termination firmly with one hand.



- 2. Line up the camera heads internal female threads to the male threads on the termination spring. Turn the camera head clockwise until it is flush with the termination spring.

Deploying the Camera

- 1. Unlock the pushrod drum brake by pulling the lock lever and giving it a ¼ turn.
- 2. Feed the pushrod through the cable guide.
- 3. Adjust lighting and reset distance counter as needed.



Locating the Position of the Camera Head

Switch on the Sonde transmitter by pressing the red Sonde button on the side of the reel. Note that the picture on the screen will disappear while the Sonde is active. The Sonde frequency will either be 512Hz or 640Hz. Pressing and holding the Sonde button will toggle between these two frequencies.

Refer to your locators' user handbook for instructions on locating Sondes.

Using the vCam-5 Control Module with the Reel

The Type-S cable reel can be used with the vCam-5 control module. When used with the vCam-5 control module additional features include; JPEG picture capture, video recording in avi format and text and audio commenting on videos and pictures.

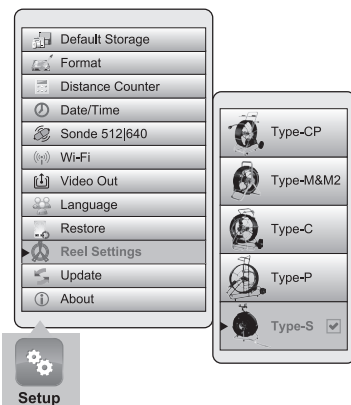
To bring the video onto the screen, plug the reels interconnect cable into the control module. This is a keyed plug and socket so be sure to line up the red dot on the interconnect cable plug to the same red dot on the interconnect socket on the control module.

1. Line up the red dot on the plug to the red dot on the socket.
2. Pull back the knurled ring on the connector.
3. Insert the plug into the control module socket and release the knurled ring.
4. Check that the connection is secure by giving a slight wiggle and tug.
5. To remove the interconnect cable pull back the knurled ring and pull the plug out.



Adjust the Reel settings in the vCam-5 Control Module

1. Press the **F10 Menu** twice to bring up the **Setup** menu.
2. Use the **down ↓** arrow key to scroll to the **Reel Settings** selection.
3. Press **Enter** or use the **right →** arrow key to enter the reel choices sub-menu.
4. Use the **up ↑** and **down ↓** arrow keys to highlight the Type-S Reel.
5. Press the **Enter** key to save the changes.
6. Press the **ESC** key to return to the main **Setup** menu, press **ESC** twice to return to the main screen.



NOTE

The distance counter is for reference only. It is important that you verify the actual position and depth with a Sonde Locator or Pipe & Cable Locator before excavating.

Refer to the vCam-5 user handbook for complete operating instructions of the control module.

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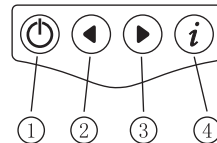
Please visit www.vxmt.com for other locations.



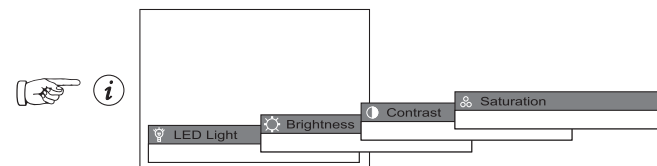
vCamLSR Quick Guide V1.1

vCamLS Handheld Viewer Controls

The membrane pushbutton controls are used to adjust the viewer's brightness, contrast and color saturation.

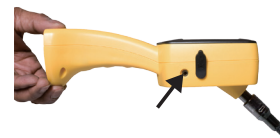


1. Power On/Off button - Push and release this button to turn it on. Push and release the button to turn the unit off.
2. Reduce Adjustments - Use this button to decrease viewer's brightness, contrast and color saturation.
3. Increase Adjustments - Use this button to increase viewer's brightness, contrast and color saturation.
4. Menu Options - Pressing this button will bring you to four menu options. Press continually to bring up your desired menu option. When your desired menu is shown use the decrease/increase buttons to get to your desired setting.



Video out Socket

The video out socket allows you to record to an external source such as a MPEG or DVR recorder.



vCamLSR System Connecting to the Type-S Reel

1. Line up the pin on the coiled cables plug to the keyway on the socket.
2. Insert the plug into the socket and secure it by turning clock-wise until tightened.
3. Insert the viewer into the cradle.
4. Adjust the coiled cable so that it cannot be tangled in the moving reel.

