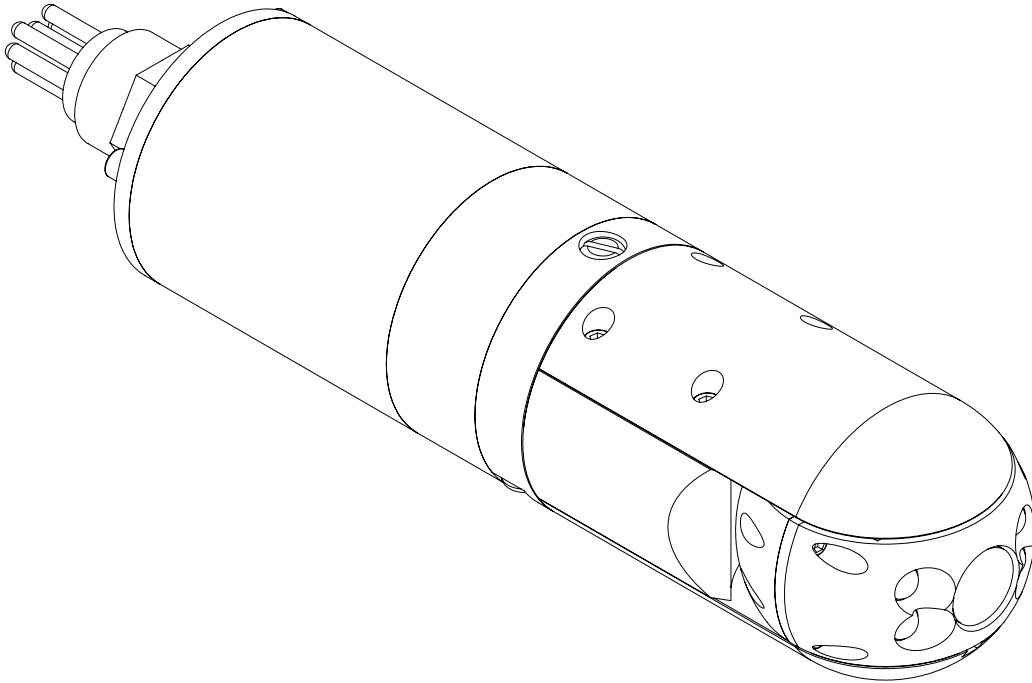


SPECTRUM 45TM CAMERA MICRO-ALUMINUM



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SOC#

Spectrum 45TM Aluminum Camera
Spectrum Controller
Tether Cable

Ser# _____
Ser# _____
Ser# _____

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Spectrum 45™ Micro PT

1.0 – ABOUT THIS MANUAL

1. ABOUT THIS MANUAL

The purpose of this manual is to provide information only. It is subject to change without notice and does not represent a commitment on the part of Inuktun, or its agents.

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2. SPECIFICATIONS

Spectrum 45™ Micro PT Specifications

Pwr Cord: North Am ☐	Aluminium ☐	Clear Anodised ☐	NTSC ☐
Other _____ ☐	Stainless ☐	Other Colour _____ ☐	PAL ☐

Depth Rating: 100 Feet. Salt or Fresh Water

Camera: Pick-up Element: 1/4" CMOS (NTSC or PAL)
Lens: 3.6mm
Resolution: 420 TV Lines (Horizontal)
Illumination: 0.2 lux
Focus 1/2" to ∞

Lights: 4X 1/2 Watt LED. Variable Intensity

Pan Range: 360 ° Continuous

Tilt Range: 280 ° Mechanical Stops

Control System: Spectrum Camera Control System.

Power Supply: Universal Switcher: 110-220 VAC, 50-60 Hz.

Weight in Air: 450g / 1.0 lbs

Operating Temp 32 ~ 122°F / 0 ~ 50°C

Storage Temp -4 ~ 140°F / -20 ~ 60°C

3. SETUP & OPERATION

3.1 Unpacking Components

The Spectrum 45™ Micro PT camera is shipped in a rugged Pelican case. The case is selected to protect the camera from damage during shipping or storage. Upon receiving your system, check the case and contents for any damage that may have occurred during transport. Should any of these components be missing or damaged, please notify the selling agency. We suggest that if the system is to be re-shipped or stored for any length of time, it should be repacked in its original case.

It is strongly advised that the pelican case be placed in a **cardboard box** again for shipping purposes. This measure greatly reduces rough handling and subsequent shipping damage.

3.2 Pelican-Case Controller Set-Up

Panel Access

Power, video and tether connections are located underneath a protective sliding panel. To access, push in the latch button and slide out the panel. If your controller is equipped with an LCD monitor, store the panel above the monitor. A piece of foam will hold it in place. This will remind you to replace the panel when closing the lid, and act as a small sun shade for the monitor.

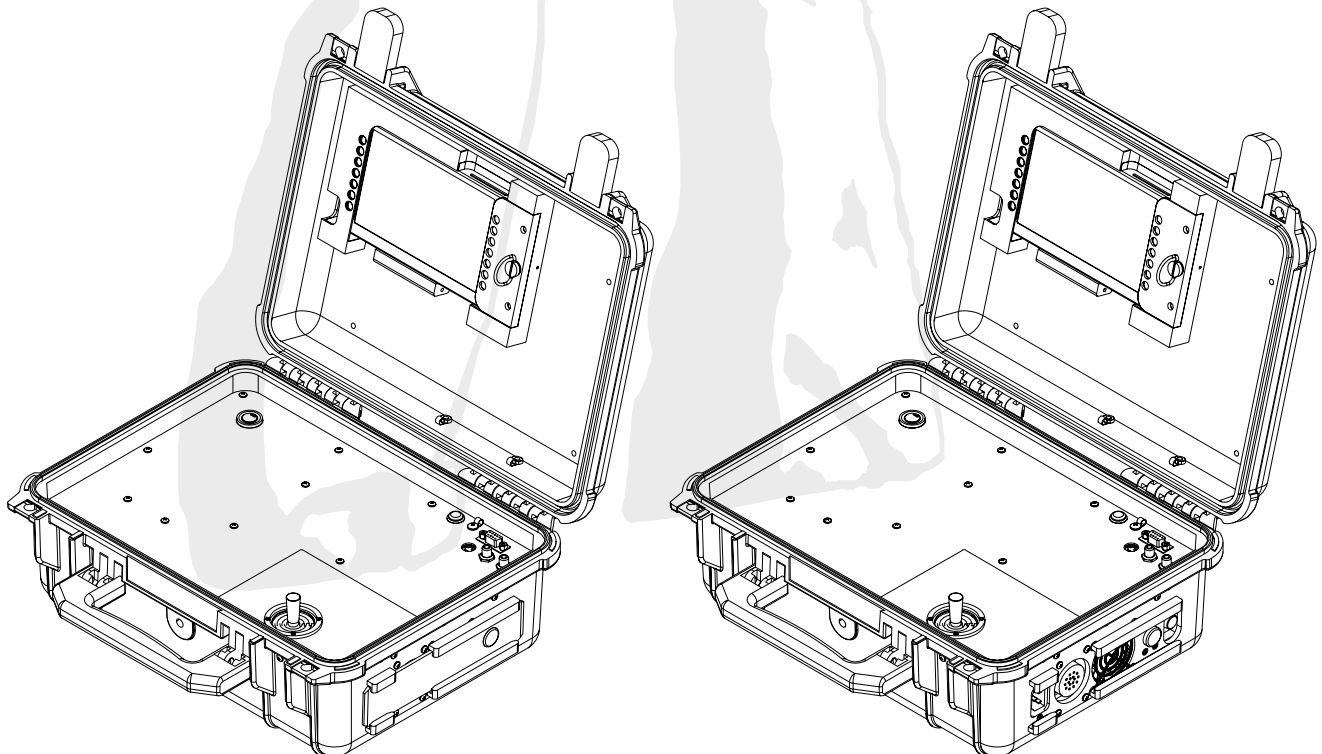


Figure 3-1: Connector Access Panel

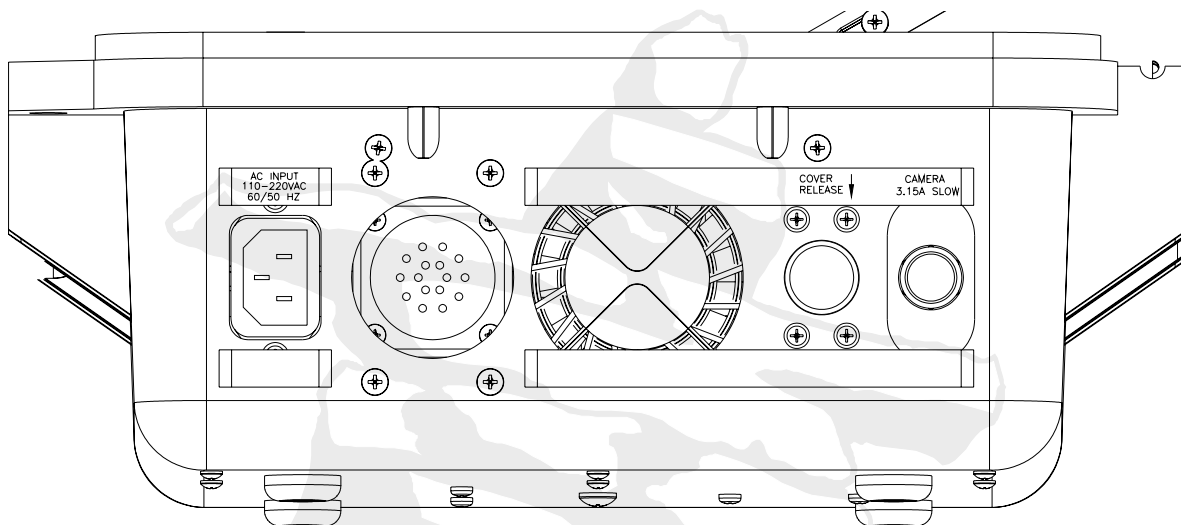


Figure 3-2: Side Connector Panel

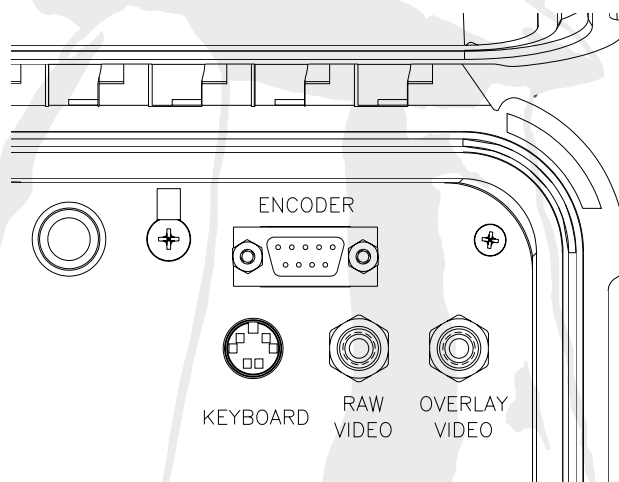


Figure 3-3: Top Panel Connectors

Side Connector Panel Layout

- Cover Release – Firmly press in the catch button with your thumb to slide out the protective side panel.
- AC Power – Universal Power Input 110-220 VAC, 50/60 Hz.
- Fuse – Camera 3.15A slow blow fuse. This protects the 72V DC power in the tether.
- Main Connector – Tether connection to the Spectrum 90 camera. This connector is also compatible with the VT100/150 systems – if a VT100/150 vehicle is plugged in this controller will run the camera.
- Encoder – Connection for a digital tether distance counter. Distances will appear on the video overlay.
- Keyboard – PS-2 style keyboard connection for video overlay and overlay messages.
- RAW Video – Video straight from the camera with no overlay.
- Overlay Video – Video signal with overlay added.



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3.0 – SETUP & OPERATION

- b) The second input method is a base-band video signal with no carrier frequency. This is the video format output by the Spectrum 45™ Micro PT Camera. The TV or VCR input will typically be an RCA style jack labelled **VIDEO (IN)**.

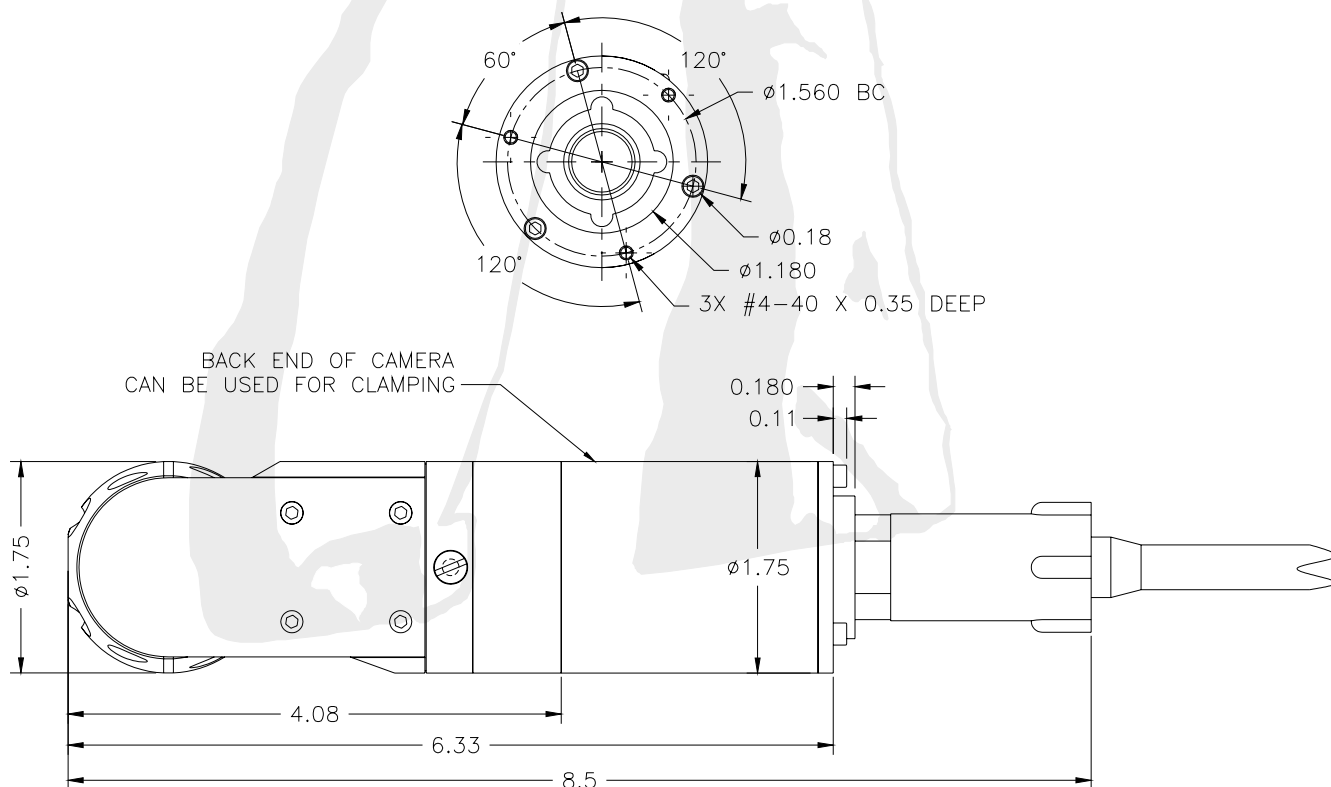
Use the VIDEO input

Often the **VIDEO** jack will be found together with some audio jacks at the back of the TV or VCR. Alternatively, it may be located at the front in a compartment with a flip-down lid. Sometimes there will be more than one video input. **Refer to your Television or VCR owners manual to switch to the appropriate video input.**

3.5 Mounting The Camera

The Spectrum 45™ Micro PT camera can be mounted by a clamp around the stationary portion of the barrel. Use smooth or soft clamps. Avoid concentrated pressure points as these may dent the body. Remember to leave $\varnothing 1"$ clearance for the connector. The camera may be mounted in any orientation.

Caution: Never force the Pan or Tilt mechanisms to move by hand.



Spectrum 45™ Micro PT Camera Mounting Dimensions



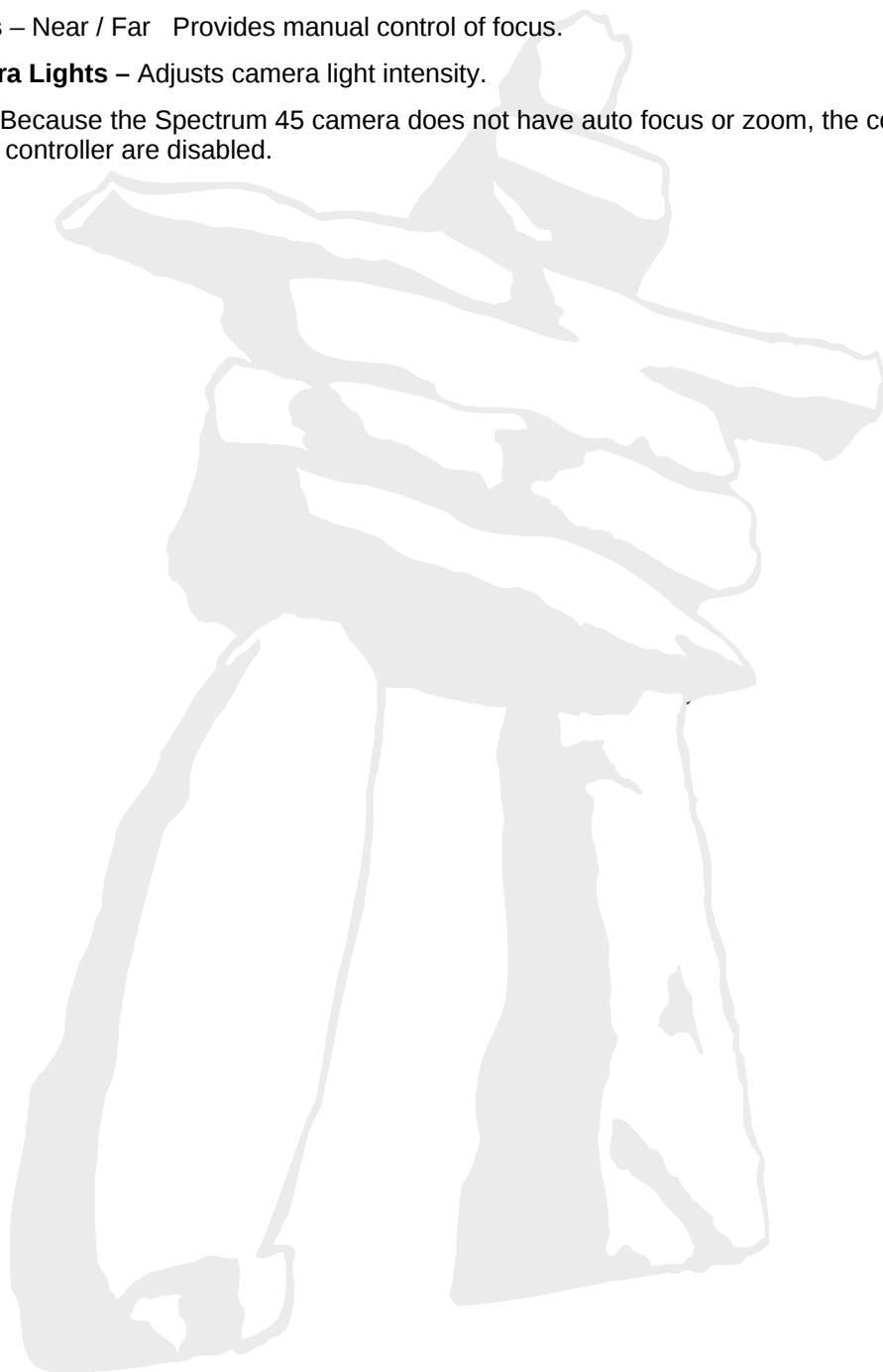
Spectrum 45™ Micro PT

3.0 – SETUP & OPERATION

Focus – Near / Far Provides manual control of focus.

Camera Lights – Adjusts camera light intensity.

Note: Because the Spectrum 45 camera does not have auto focus or zoom, the corresponding switches on the controller are disabled.





Spectrum 45™ Micro PT

4.0 – Video Overlay

Menu Shortcuts	
Ctrl + T	Display the date/time menu
Ctrl + Alt + C	Display the Calibration menu
M	Display the main menu
Alt	Display the main menu (also displays short cut keys for the menu while the Alt key is held down)
Title Screen & Comments Shortcuts	
X	Show / hide the last title screen.
F1 Key	Select Title Screen 1
F2 Key	Select Title Screen 2
F3 Key	Select Title Screen 3
F4 Key	Select Title Screen 4
F5 Key	Select Title Screen 5
Shift + F1 Key	Edit Title Screen 1
Shift + F2 Key	Edit Title Screen 2
Shift + F3 Key	Edit Title Screen 3
Shift + F4 Key	Edit Title Screen 4
Shift + F5 Key	Edit Title Screen 5

11. MECHANICAL & ELECTRIC DRAWINGS



