

# OnSite Standard Product



## Key Specifications

**Diameter:** 120mm / 4.75in  
**Length:** 368mm / 14.5in  
**Weight:** 2.9kg / 6.5lb (aluminum)  
**Material:** Aluminum (optional 316 stainless steel)  
**Depth Rating:** 60m / 200ft (300m / 1,000ft)  
**Maximum Tether Length:** 500m / 1,650ft  
**Operating Temperature:** 0°- 50° C / 32°- 122° F

**Imager Type:** Super HAD CCD II™  
**Sensitivity:** 0.6 lux  
**Resolution:** 670 TV lines  
**Focus:** Auto or manual (remote)  
**Iris:** Auto or manual (remote)  
**Lights:** 4 x High intensity variable LEDs  
**Controls:** 360° continuous pan, 280° tilt, zoom, focus, lights, lasers, exposure level  
**Zoom:** 480:1 (40x optical, 12x digital)  
**HFOV:** 56° in air  
**Format:** PAL or NTSC  
**Power:** Voltage (Nom) = 40-54VDC 75W  
**Focal Range:** 100mm / 3.9in - infinity

# Spectrum 120™ (SP120)



## Industries & Applications

- Mining
- Municipal (Sewer/Water)
- Nuclear
- Oil & Gas (Onshore/Offshore)
- Petrochemical

Incorporating the latest Sony block camera technology, the Spectrum 120™ offers our largest zoom capability and the highest resolution available in a standard definition amphibious PTZ camera. With an incredible 480x zoom and four built-in high intensity LED lights, the SP120 provides superior quality images over extremely long distances. Whether inspecting storage tanks and large pressure vessels, monitoring open areas and underwater structures, or reading and cataloging serial numbers in nuclear fuel pools, the Spectrum 120™ offers unparalleled imaging capabilities.

Available options include portable or PC based control systems, extended length umbilical cables, interlocking deployment poles, parallel laser lines and deep water pressure ratings. And, just like all of the Spectrum™ cameras, the SP120 is available as a complete turn key inspection package, integrated in Inuktun crawlers or combined with third party design.



*"The Spectrum 120 camera performed beyond our expectations with excellent zoom and intelligent light and focus control. The camera system was simple to install and easy to operate with the Xbox controller...more than satisfied with the results."*

– Matthew Castle, Development Engineer, Lateral AS

All specifications are subject to change

# STANDARD IM3 OPTIONS

Custom configurations:  
See dealer for details

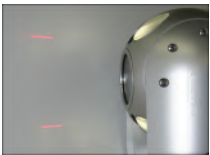


### Material

Aluminum  
or  
Stainless Steel

### Depth Rating

60m / 200ft  
or  
300m/1000ft  
*Sacrificial anodes for subsea applications available*



### Lasers

Optional parallel laser lines  
for on-screen size estimation  
**1.5mW, 635nm, class 2, 77mm separation**



### Control System

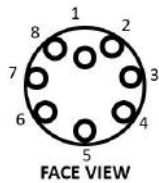
Spectrum™ or Versatrax™ controller; Pelican® case; membrane panel with joystick input, video text overlay with keyboard entry, date/time & camera feedback.



### Pin-lock Pole

Aluminum pin-lock pole system is designed for ad-hoc or scheduled inspections. Ideal for fuel pools, storage tanks, wells, caissons or almost any hard to reach location, these poles are lightweight and extremely durable. And, because they are modular in design, you can simply add more poles to get to the length you need!

### Connector Pin-out



	CN1
GND	1
VIN	2
RS485A	3
RS485B	4
SpareA	5
SpareB	6
Video(+)	7
Video(-)	8



# Spectrum 120™

**TRACKS**  
Microtracs 4000, Minitracs 6000/7000, Nanotracs

**CAMERAS**  
HD Camera Head, Mini Crystal Cam, Crystal Cam, Spectrum 45, Spectrum 90, Spectrum 120, Spectrum 120HD

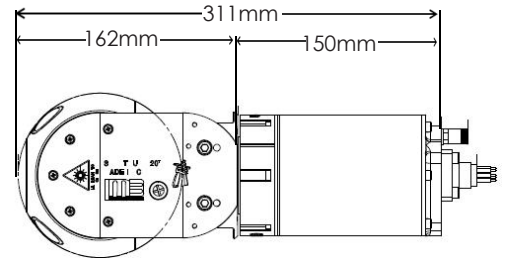
**LIGHTS**  
704, 801, 901

**SENSORS & END EFFECTORS**  
UT Probe, Manipulator

**Other accessories:** NanoMag, MicroMag, MaggHD, MaggUT, MaggUT-Marine, Versatrax 100, Versatrax 150

## Spectrum 120™ Dimensions

60m/200ft



300m/1000ft

