

## OnSite Standard Product



## Key Specifications

**Diameter:** 120mm / 4.75in  
**Length:** 350mm / 13.8in  
**Weight:** 2.9kg / 6.5lb (aluminum)  
**Material:** Aluminum (optional 316 stainless steel)  
**Depth Rating:** 60m / 200ft (optional 300m / 1,000ft)  
**Maximum Tether Length:** 300m / 1,000ft (long range fibre optic option)  
**Operating Temperature:** 0°-50° C / 32°-122° F

**Minimum Illumination:** 1.4 lux  
**Resolution:** 1080p  
**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:** 120x (10x optical, 12x digital)  
**HFOV:** 67° in air  
**Format:** 1080p  
**Power:** Voltage (Nom) = 40-54VDC 75W  
**Focal Range:** 10mm / 0.4in - infinity

## Spectrum 120HD™ (SP120HD)



## Industries & Applications

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

When your inspection requirements mandate the best possible picture quality, the Spectrum 120HD™ pan, tilt and zoom camera delivers true High Definition (HD) video with advanced imaging options including defog, stabilization and color enhancement. Designed with a wide range of industry requirements in mind, this camera incorporates proprietary Inuktun technology in order to transmit HD video signals reliably over copper conductors up to 300 metres long.

And, with available options that include 10x or 30x zoom capability, built-in laser lines, deep water pressure ratings, spot LED lights, interlocking deployment poles, and extended distance with fiber optic cables, the Spectrum 120HD™ is unmatched in almost every application. When utilized as a standalone tool or part of a remote crawler system, the SP120HD is perfect for detailed remote visual inspection of storage tanks, pressure vessels, mine shafts, nuclear power installations, pipelines, or any industrial structure with limited or unsafe access.



*"We find that the quality and reliability of the SP120HD by far surpasses any other camera system we have owned or used in the past. Now that we own and operate our ROV with the SP120HD, it is very difficult for us to ever consider going back to a non-HD camera."*

- Piero Salvo, President, GAME Trenchless Consultants

All specifications are subject to change

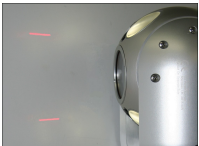
# STANDARD IM3 OPTIONS

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**



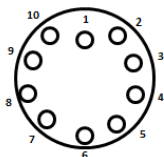
**Advanced Imaging**  
Features include defog, image stabilization and optional colour enhancement for the best picture and video result.



**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



Male Face View

CN1	
GND	1
VIN	2
RS485A	3
RS485B	4
Pbout+	5
Pbout-	6
Yout+	7
Yout-	8
Prout+	9
Prout-	10

# Spectrum 120HD™

**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

NanoMag

MicroMag

MaggHD

MaggUT

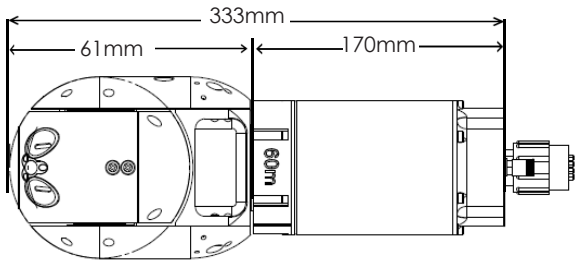
MaggUT-Marine

Versatrax 100

Versatrax 150

## Spectrum 120HD™ Dimensions

60m/200ft



300m/1000ft

