Technical
Specifications

INUKTUN SPECTRUM 120HD

OnSite Standard Product

Eddyfi
Technologies

HIGH DEFINITION. PAN-TILT-ZOOM PRECISION.

When your inspection requirements mandate the best possible picture quality, Eddyfi Technologies' Inuktun Spectrum 120HD™ delivers true high definition video.

Industries & Applications

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

"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."

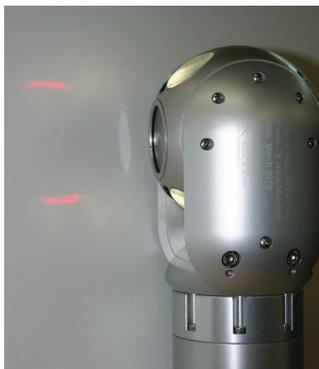— Piero Salvo, President, GAME Trenchless Consultants

Perfect for detailed remote visual inspection

When your inspection requirements mandate the best possible picture quality, Eddyfi Technologies' Inuktun 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 30x zoom capability, built-in laser lines, deep water pressure ratings, spot or flood LED lights, anode kit for cathodic protection, 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 Spectrum 120HD 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.

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! Inuktun Spectrum 90™ shown.

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

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

Optional lasers

Spot light

Flood light

Aluminum or 316 Stainless Steel

SPECIFICATIONS

KEY SPECIFICATIONS

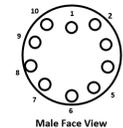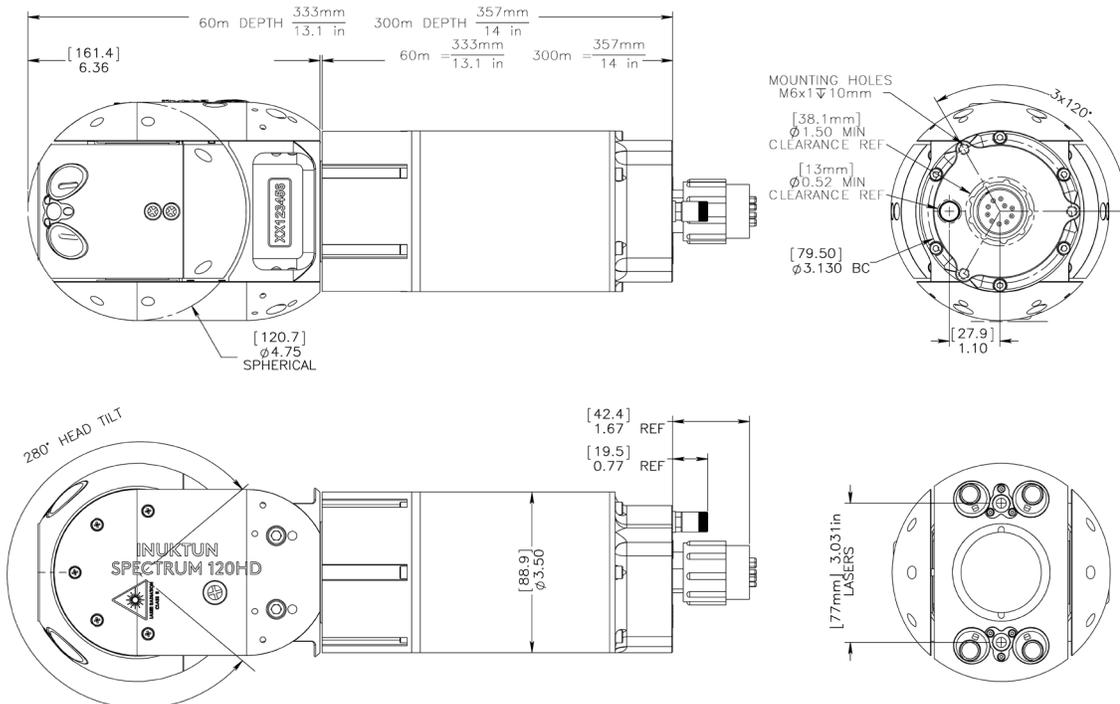|	
Diameter	Head: 120 mm (4.6 in) Body: 90 mm (3.5 in)
Length	60 m: 332 mm (13.1 in) 300m: 357 mm (14 in)
Weight	3.4 kg (7.5 lb) (aluminum)
Material	Aluminum
	Optional:
	316 stainless steel
Depth Rating	60 m (200 ft)
	Optional:
	300 m (1,000 ft)
Maximum Tether Length	300 m (1,000 ft); long range fibre optic option
Operating Temperature	0 °–50 °C (32 °–122 °F)*
Minimum Illumination	1.4 lux
Resolution	1920 × 1080
Focus	Auto and manual (remote)
Iris	Auto or manual (remote)

Lights	4 × High intensity LEDs
Controls	360° continuous pan, 280° tilt, zoom, focus, lights, lasers, exposure level
Variable Pan Speed	0–26° per second
Variable Tilt Speed	0–9° per second
Zoom	120x (10x optical, 12x digital)
	Optional:
	360x (30x optical, 12x digital)
HFOV	67° in air (for 120x zoom)
Format	1080p30
Input Voltage	36–70 VDC
Lens	120x: 3.8 mm (wide) to 38 mm (tele)
	360x: 4.3 mm to 129 mm
Depth of Field	10 mm (0.4 in) to infinity

*Dependent on operating conditions. Ask your sales expert for more information.

IM3™

Inuktun Spectrum 120HD™ Standard Dimensions

Units in inches [mm]

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

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Eddyfi Technologies

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