



Spectrum 90™

The most popular Inuktun camera on the market, this robust 40x zoom, ¼in CCD color camera, with a diameter of 3.5in / 90mm, 460+ TV line resolution and 1.5 lux sensitivity is available in aluminum or stainless steel and depth rated to 100ft / 30m or 1000ft / 300m. In addition, the Spectrum 90™ camera offers high intensity LED lighting to maximize visibility at any zoom factor, and the optional laser lines enable the operator to make size evaluations of any object within the field of view.

For more information on advanced remote inspection systems contact Inuktun today.



SPECIFICATIONS

SIZE

Diameter 3.5in / 90mm
Length 11in / 280mm + connector

CAMERA

Material Aluminum or 316 stainless steel
Imager ¼-type EXview HAD™ CCD
Sensitivity < 1.5 lux
Resolution 460 TV lines
Focus Auto or manual (remote)
Exposure Auto or manual (remote)
Lights 3x High intensity variable LEDs
Camera Weight 6.6lb / 3kg (aluminum)
Format NTSC / PAL
Power Voltage (Nom): 40–54VDC 65W

CONTROL SYSTEM

Power Voltage (Nom): 88–264VAC 200W
Chassis 19in rack mount or optional Pelican® case
Height 5.75in / 146mm
Rack Mount Weight 22lb / 10kg
Case 1450 Pelican® case (optional)
Size 16in x 13 in x 6.875in
 40.6cm x 33cm x 17.4cm

Weight Interface

20.2lb / 9.2kg
 Membrane panel with joystick input and home function; pan, tilt and inclinometer feedback, video text overlay with keyboard entry, date/time and camera feedback
 Up to 1500ft / 457m
Optional Portable cable reel with distance counter

Tether Cable Optional

CONTROLS

Active Controls Pan, tilt, zoom, focus, lights, lasers and exposure level
Pan 360° continuous
Variable Pan Speed 0–26°/sec
Tilt 280°
Variable Tilt Speed 0–7°/sec
Horizontal Zoom FOV 46° in air (wide)
Zoom 40:1 (10x optical, 4x digital)
Clutch Pan and tilt clutch

OPERATING ENVIRONMENT

Temperature 0°–50°C (32°–122°F)
Depth Rating 200ft / 60m
 Optional 1,000ft / 300m depth rating available

APPLICATIONS

- Municipal pipe inspection
- Toxic environment, confined space or underwater analysis
- Nuclear fuel pool examination
- Reactor vessel inspection
- Small diameter pipe inspection
- Foreign object search and retrieval
- Dam and lock survey
- Robotics and remote tooling
- ROV integration
- Corrosion evaluation

BENEFITS

- Lightweight construction
- Compact size
- Robust and reliable
- Operate in air or underwater
- Permanent or mobile installations
- Precise controls
- Depth rated to 100ft / 30m
- Pan / tilt position feedback
- Continuous 360° pan
- > 280° tilt
- Built in inclinometer
- Pan / tilt operation does not change camera profile

MODULAR MOBILE ROBOTIC
CRAWLER VEHICLES

INDUSTRIAL WATERPROOF
CAMERA SYSTEMS

... see it for yourself

INUKTUN

CRAFTSMANSHIP IN HIGH TECHNOLOGY

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ABOUT INUKTUN

Inuktun Services Ltd. (ISL) was founded in 1989 to design and manufacture Remotely Operated Vehicles (ROVs) and modular robotic systems for use in confined spaces and hazardous environments. Since then, the company has earned a reputation as the expert in remote controlled robotic inspection and instrumentation transport systems. Reliability, efficiency, quality, and cost-effectiveness are emphasized in the design of all equipment produced by ISL.

The company employs a multi-disciplinary team of engineers, scientists, administrative and production personnel at its facility in Nanaimo, British Columbia, Canada.

In addition to producing and selling a complete line of standard equipment for a variety of remote robotic inspection applications, the company also offers a complete range of engineering services from conceptual design through to project completion.

To ensure and maintain the company's high standard of quality systems assembly, integration and testing are accomplished using in-house electronic and machine assembly staff. In addition, ISL regularly develops partnerships with other businesses and consultants to provide specialty engineering in accordance with design criteria. As a result, ISL is able to provide customers with innovative, high-quality equipment that is functionally reliable, easily operated, and cost-effective.

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