*On**Site***
Standard Product

Spectrum 45™
(SP45)

Key Specifications

Diameter: 45mm / 1.75in
Length: 163mm / 6.4in
Weight: 0.5kg / 1.1lb
Material: Aluminum (optional 316 stainless steel)
Depth Rating: 30m / 100ft (optional 150m / 500ft)
Maximum Tether Length: 500m / 1,650ft
Operating Temperature: 0°- 40° C / 32°- 104° F

Minimum Illumination: 1.0 lux
Resolution: 420 TV lines
Focus: Manual (remote)
Iris: Auto
Lights: 6 x High intensity LEDs
Controls: 360° continuous pan, 280° tilt, focus, light **Variable Pan Speed:** 0-26°/sec
Variable Tilt Speed: 0-12°/sec
HFOV: 53° in air
Format: PAL or NTSC
Power: Voltage (Nom) = 40-54VDC 10W
Lens: 3.6mm
Focal Range: 5mm to infinity

Industries & Applications

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

Inuktun's robust Spectrum 45™ camera offers precision pan and tilt capability in an extremely compact waterproof package. Easy to deploy and operate, the system incorporates controls for remote focus and built-in LED lighting allowing maximum visibility in low light conditions and confined spaces. And, with long cable deployment options and the ability to function effectively in air or underwater, it can be used almost anywhere.

One of the smallest cameras in its class, the Spectrum 45™ is available as a stand-alone system for visual examination inside of caissons, wells, and pressure vessels. When integrated with the Inuktun Versatrax 100™, MicroMag™ or NanoMag™ crawlers, it is ideal for inspecting a wide range of infrastructure including piping, storage tanks and nuclear reactors. And, because the Spectrum 45™ adheres to our Multi-Mission Modular (IM3™) design philosophy, it can be easily integrated into third party designs including Remotely Operated Vehicles (ROVs), manipulators or pipe inspection systems.

"The SP45 addresses the market's shortfall in size, with combined pan and tilt functionality. For entry size, image quality and even subsea applications, this 45mm diameter is the solution... Ticks the box in every respect."

– J. De Silveria, Director, Nexxis

Spectrum 45™

STANDARD
IM3 OPTIONS
Custom configurations:
See dealer for details

TRACKS — Microtracs 4000 · Minitracs 6000/7000 · Nanotracs

CAMERAS — HD Camera Head · Mini Crystal Cam · Crystal Cam · Spectrum 45 · Sp...

LIGHTS — 704 · 801 · 901

SENSORS & END EFFECTORS — UT Probe · Manipulator

NanoMag · MicroMag · MaggHD · MaggUT · MaggUT-Marine · Versatrax 100 · Versatrax 150

Material
Aluminum
or
Stainless Steel

Depth Rating
30m / 100ft
or
150m / 500ft
Sacrificial anodes for subsea applications available

Miniature size for confined spaces.
High intensity built-in LEDs for maximum penetration, visibility & image quality

Control System
Spectrum™ or Versatrax™ controller; Pelican® case; membrane panel with joystick input, video text overlay with keyboard entry, date/time & camera feedback.
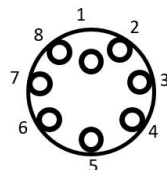
Carbon Fibre Pole
Telescopic deployment pole for ad-hoc or scheduled inspections in confined, restricted or out-of-reach spaces: length to 5m / 16ft.
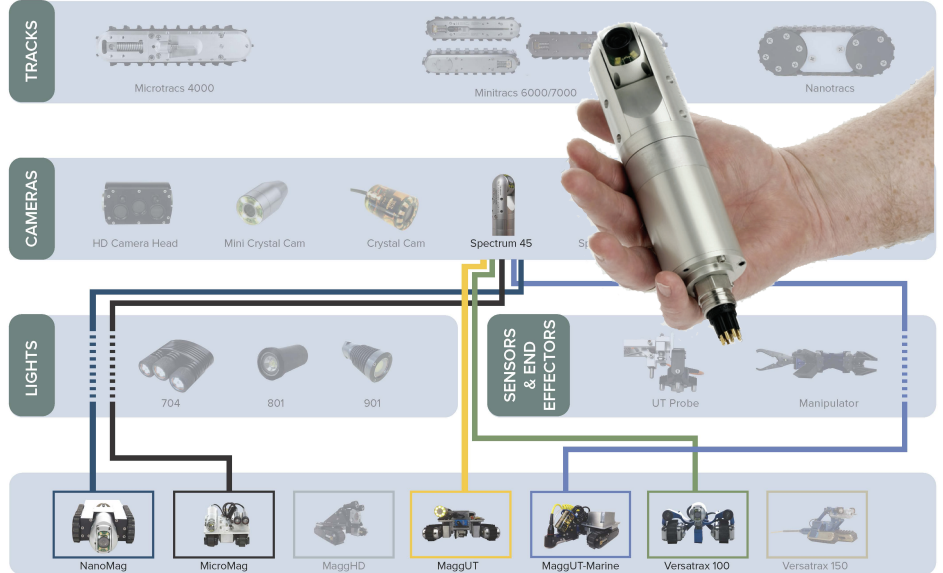
Tether Management
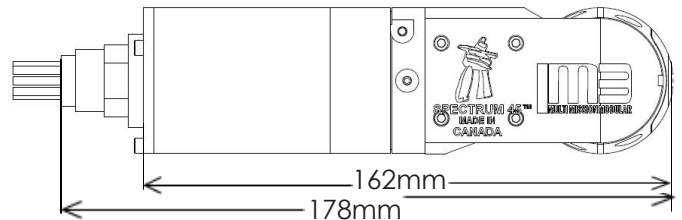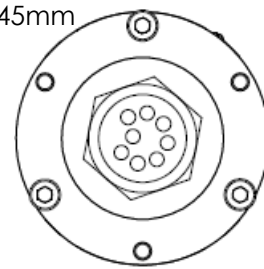Hard shell roller case with custom foam for miniature cable reel.

Spectrum 45™ Dimensions
Call for imperial/metric fastener measurements

30m/100ft version

162mm
178mm

Ø 45mm

150m/500ft version

168mm
209mm

Connector Pin-out

FACE VIEW

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

MULTI MISSION MODULAR