

SIMRAD OE14-102 ROTATE & TILT CAMERA



GENERAL DESCRIPTION

The OE14-102 Continuous Rotate and Tilt camera is a highly compact and versatile underwater inspection camera that utilises the latest in CCD colour sensing technology. Having no external moving parts, the camera utilises an innovative rotate and tilt mechanism which allows the camera to continuously rotate through 360° whilst allowing 180° of tilt movement. The camera is manufactured with a pressure housing made from hard anodised aluminium rated to 1000m depth and features an IR selectable cable compensation circuit.

Applications

These features are ideally suited to applications in the field of Intervention Tooling or other tasks where all-round viewing is required in space restricted areas, for example, internal pipeline inspections.



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SIMRAD OE14-102 ROTATE & TILT CAMERA

TECHNICAL SPECIFICATIONS

Electrical

Horizontal Resolution: 440TVL
Light Sensitivity: 36Lux (Scene)
50% video signal
Sensor Type: 1/3" CCD
Signal to Noise Ratio: >48dB (weighted)
AGC off

Scanning: 625 line/50Hz PAL
Power Input: 16-24Vdc
Constant

Voltage (600mA max)

Video Output: 1.0V p-p
Composite video (75Ω)

EMC: EN50081-1
Emission/
EN50082-1
Immunity

Environmental

Water Depth: 1000 metres
Temperature: Operating: -5°C to +40°C

Storage: -20°C to +60°C

Vibration: 10g, 20-150Hz, 3 axes (non-operating)

Shock: 30g peak, 25mS half-sine pulse

Optical

Lens: Fixed 5.6mm f/4.0
Iris Control: Electronic 1/50 to 1/30,000 Second

Angle of View: Water: Horizontal 46°
Vertical 35°

Air: Horizontal 43°
Vertical 33°

Pan & Tilt Coverage

Rotation: 360° Continuous
Tilt Range: 180° (+/- 90°)
Rotate & Tilt Control: Single wire tri-state, or 2-wire bipolar.

Mechanical

Diameter: 115mm Main Body
Length: 104mm (ex. Connector)

Weight: Water: 0.9kg
Air: 1.75kg

Housing material: 6082-T6 Marine grade aluminium

External Connector: Burton 5506-1508

Standard connections: Pin1: 0V & Video screen

Pin 2: Power

Pin 3: Rotate control

Pin 4: not used

Pin 5: Video

Pin 6: Tilt control

Pin 7: not used

Pin 8: not used



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