

Enhanced SIT Low Light Camera

oe1324



- Enhanced Low Light Performance
- Long-Range Viewing
- 3,000m Titanium Housing

The model oe1324 Enhanced SIT camera combines the proven underwater abilities of the SIT image-intensifier with sophisticated new video processing circuitry, developed from military technology. This camera provides unrivalled low-light and long-range underwater viewing capabilities, ideally suited to ROV navigation, turbid water inspections, ambient light operations, scientific research and defence applications. The oe1324 is fitted with a corrosion resistant Titanium alloy pressure housing with 3,000 metre depth rating as standard (other housing options available). The standard camera includes adaptive contrast enhancement, automatic tube protection circuits, over-voltage protection, and special high-frequency amplifier circuits for operating on long cable lengths. The oe1324 Enhanced SIT extends the performance of the world's most successful range of professional underwater cameras.

Standard Features**Electrical**

Horizontal Resolution	700 TV Lines (typical)
Light Sensitivity (limiting)	2×10^{-4} Lux (faceplate)
Light Sensitivity (full video)	1×10^{-3} Lux (faceplate) (Seawater Equivalent Measurement)
Sensor Type	1" Silicon Intensifier Target (SIT)
Signal to Noise	>40dB weighted (AGC off)
Scanning	625 Line / 50 Hz CCIR 525 Line / 60 Hz RS-170 (optional)
Power Input	Constant Voltage 16V - 24V dc, 675mA (max.)
Grey Scale	10 Shades (RETMA)
Cable Compensation	1,200 metres of RG59 Coaxial
Video Output	1.0V Pk - Pk composite video into 75 Ω
Electro-Magnetic Compatibility	EN50081-1 Emission / EN50082-1 Immunity

Environmental

Water Depth	3,000 metres, deeper options available
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

Standard Lens	6.5mm f/1.8
Iris Control	Automatic Light Control (ALC)
Focus Control	Fixed, (150mm to infinity)
Angle of View	86° Diagonal (nominal) in water
Water Compensation	Plano-Concave Acrylic Port

Mechanical

Size	Diameter 102mm exc. guard Length 297mm exc. connector
Weight	Air 4.6 Kg Water 2.2 Kg
Standard Housing Connector	6Al/4V ASTM B 348 Titanium Alloy Sea-Con / Brantner Type XSL-5-BCR Other Connector options available

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