

The MANTIS is an extremely compact, colour zoom and focus high definition camera. The 1/3- inch CMOS sensor provides exceptional picture quality with the highest level of resolution. The camera provides a full 1080p HD output signal (in HD mode), and incorporates a 10x optical zoom. The camera has been designed to be as compact as possible but still provide the highest quality of picture for all subsea viewing applications. The standard output signal is HD component, allowing for easy interconnection and compatibility with displays and recording equipment.

Specification

Electrical

Resolution	1080p 30fps
Light Sensitivity	0.125 lux
Sensor Type	2.4MP 1/3-inch CMOS
Signal to Noise Ratio	>50dB
Power	12-28Vdc
Current	4 Watts
Video Output HD	HD-SDI
Control Options	RS485/RS232 serial control

Environment

Water Depth	1000 meters - Aluminium 4000m - Titanium
Temperature	Storage -20°C to +60°C Operating -5°C to +45°C (in water)

Optical

Optical Zoom	10x Optical, 5.1mm to 51.0mm focal length, F1.8
Iris Control	Automatic, f1.6 - close
Focus Control	Front port to Infinity (wide) 900mm to Infinity (zoom)
Angle of View	68° x 54° x 31° (D x H x V)

Mechanical

Diameter	68mm main body, 80mm including front retainer bezel
Material	Hard anodised aluminium as standard, Titanium optional
Length	180mm, excluding connector
Weight in Air	2.1kg
Weight in Water	1.0kg

