

MANTIS HD INSPECTION CAMERA

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 1080i 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, Pixels	1920 x 1080 (h x v)
TV Lines	800 TV Lines
Light Sensitivity (limiting)	0.1 Lux (faceplate)
Sensitivity	12 Lux typical @ f1.8, 50 IRE
Sensor Type	1/3-inch HD CMOS
Signal to Noise Ratio	>50dB
Power	12-28Vdc
Current	4 Watts
Video Output HD	Component - Y/Pb/Pr
HD	SDI Optional
HD Format	1080i, 50Hz or 60Hz
Video Aspect Ratio	16:9
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	5.3° to 50° Diagonal in water

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



C-Tecnics Ltd.

123 Ashgrove Road West, Aberdeen, AB16 5FA, Scotland
Tel: +44 (0) 1224 666 322 Fax: +44 (0) 1224 692 222
info@c-technics.com

www.c-technics.com