

The MANTIS 20 is a compact, full high definition (HD) colour focus and zoom camera. The 1/3-inch CMOS sensor provides exceptional picture quality with full HD levels of resolution and it incorporates a 20:1 optical zoom lens. The camera can provide up to full 1080p HD output signal in either analogue component or HD-SDI format. It has been designed to be as compact as possible but still provide the highest quality of picture for all subsea viewing applications.

Specification

Electrical

Sensor:	1/3" HD CMOS
Pixels:	1920 x 1080
Signal to Noise:	> 50dB
Sensitivity:	1.7Lux @ f1.6
Sensitivity Limiting:	0.5Lux (HS Mode)
HD Video output: *	Component or HD-SDI
Video Aspect:	16:9
HD Format:	1080p 30 or 25 fps / 1080i 60 or 50 fps
SD Video output: *	Component or SDI
Video Aspect:	4:3
SD Format: *	PAL or NTSC
Camera Control:	RS232/RS485 selectable
Supply Voltage:	12-24 Volts DC +/- 10%
Current:	550mA (continuous) / 850mA (startup)

* Dependant on user selected external connector

* Other connector options are available

Optical

Optical Zoom:	20:1 - 4.7 to 94.0mm focal length
Digital Zoom:	12x (240x with Optical) / (disabled by default)
Iris:	Fully automatic, F1.6 to closed
Focus Control:	20mm to infinity (wide) / 800mm to infinity (zoom)
Angle of View:	62° Diagonal in air (wide) / 47° diagonal in water (wide)

Mechanical

Dimensions:	190 x 97mm diameter Main body (excluding connector) / 106mm diameter Front bezel ring
Housing Material:	Anodised Aluminium (Stainless Steel & Titanium optional)
Weight:	2.5kg (air) / 1.1kg (seawater)
Front Port:	Sapphire Glass Depth Capability: 1000msw (Aluminium)
Operating Temperature:	-5°C to +50°C
Storage Temperature:	-20 °C to +60 °C
Standard Connectors: *	HD-SDI output - Birns Millennium™ 3P (Thread 1-1/4"-16 UN-2B) Component output - C-Tec Technics Metal Shell 9-way (5/8"-18 UNF)

