

MANTIS 20 HD CAMERA

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

> 50dB Signal to Noise:

Sensitivity: 1.7Lux @ f1.6

Sensitivity Limiting: 0.5Lux (HS Mode)

HD Video output: * Component or HD-SDI

Video Aspect: 16:9

1080p 30 or 25 fps / 1080i 60 or **HD Format:**

SD Video output: * Component or SDI

4.3 **Video Aspect:**

SD Format: * PAL or NTSC

Camera Control: RS232/RS485 selectable 12-24 Volts DC +/- 10% **Supply Voltage:**

Current: 550mA (continuous) / 850mA

(startup)

www.c-tecnics.com

* 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

Mechanical

Dimensions: 190 x 97mm diameter Main body (excluding con-

nector) / 106mm diameter Front bezel ring

Housing Material: Anodised Aluminium

Weight: 2.5kg (air) / 1.1kg (seawater)

Front Port: Sapphire Glass

Depth Capability: 1000msw (Aluminium)

(Stainless Steel & Titanium optional)

Operating Temperature: -5°C to +50°C

-20 °C to +60 °C **Storage Temperature:**

Standard Connectors: * HD-SDI output - Birns Millennium™ 3P (Thread

1-1/4"-16 UN-2B)

Component output - C-Tecnics Metal Shell 9-way

