



## Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com

Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

### PRODUCT DATASHEET

#### C-Tecnic HD MANTIS 20



#### THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

#### OVERVIEW

Full High Definition, Underwater Colour Focus and 20:1 Zoom Camera with Superb Image Quality. The MANTIS 20 is a compact, full high definition (HD) colour focus and zoom camera.



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### DESCRIPTION

Full High Definition, Underwater Colour Focus and 20:1 Zoom Camera with Superb Image Quality. 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. The camera has been designed to be as compact as possible but still provide the highest quality of picture for all subsea viewing applications.

### FEATURES

**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

**SD Video Output** - 1080p 30 or 25 fps / 1080i 60 or 50 fps

**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)

**Optical Zoom** - 20:1 - 4.7 to 94.0mm focal length

**Digital Zoom** - 12x (240x with Opcal) / (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)

**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-Tecnic Metal Shell 9-way (5/8" - 18 UNF)

### SPECIFICATION

#### Electrical



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**Opcal Sensor:** 1/3" HD CMOS

**Opcal Zoom:** 20:1 - 4.7 to 94.0mm focal length

**Pixels:** 1920 x 1080

**Digital Zoom:** 12x (240x with Opcal) / (disabled by default)

**Signal to Noise:** > 50dB Iris:

**Iris:** Fully automatic, F1.6 to closed

**Sensitivity:** 1.7Lux @ f1.6

**Focus Control:** 20mm to infinity (wide) / 800mm to infinity (zoom)

**Sensitivity Limiting:** 0.5Lux (HS Mode)

**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-Tecnic Metal Shell 9-way (5/8" -18 UNF

**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%



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**Current:** 550mA (continuous)/850mA(startup)

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### ORDER THIS PRODUCT

To order this product or to request a price contact our UK sales team on  
**+44 (0)1772 687775**

Alternatively you can place a quote request through our website  
<http://www.smp-ltd.co.uk/> or send an email to [sales@smp-ltd.co.uk](mailto:sales@smp-ltd.co.uk)