



# OceanTools

## C3-20 HD

### Compact High Definition subsea camera

The **C3** range of ultra-compact subsea cameras offer high quality video in low light level conditions, with low power consumption and depth ratings to 8000m.



### Overview

The cost-effective **C3-20** HD cameras have been designed to be as rugged and durable as possible, to suit a wide range of underwater applications including:

- Main ROV camera
- ROV manipulator and tooling camera
- Rear facing camera
- Diver held camera
- TMS camera

The **C3-20** has a wide input voltage range of 12–26VDC and is offered with various underwater connectors. The **C3** range also includes the **C3-10** which has an 800 TVL resolution SD composite video output and the **C3-30** which is a full HD MPEG and MJPEG IP streaming camera. The cameras are available in 30mm diameter housings with standard depth ratings ranging from 500m to 8000m, including 6000m-rated wide angle (**WA**) variants.

### Key Features

- Composite, EX-SDI, HD-SDI & 3G-SDI outputs
- 1.5 Lux low-light sensitivity
- Sapphire viewport
- Titanium housing
- Up to 103° diagonal angle of view (immersed)



*Wide angle (WA) variant*



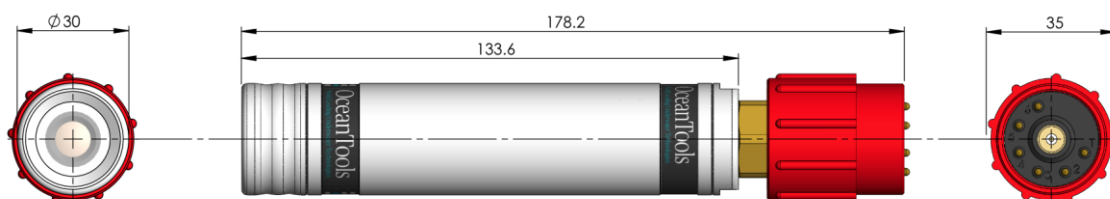
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#### Specifications

		C3-20-8K (HD)	C3-20-WA-6K (HD)
<b>Composite, EX-SDI, HD-SDI &amp; 3G-SDI Cameras</b>			
<b>Optical</b>	<b>Standard lens</b>	3.6mm	
	<b>Focus</b>	Manually adjustable	
	<b>Depth of field</b>	200mm to infinity	
	<b>FOV in air</b>	103.2°(D) X 78.4°(H) X 57.1°(V)	
	<b>FOV in water</b>	76.2°(D) X 58.4°(H) X 42.1°(V)	103.2°(D) X 78.4°(H) X 57.1°(V)
	<b>Iris control</b>	Electronic iris	
<b>Video</b>	<b>Sensor type</b>	1/2.8" SONY CMOS (Progressive Scan) (WDR)	
	<b>Pixel resolution</b>	1945(H) x 1097(V) 2.13 Megapixel	
	<b>Min illumination</b>	1.5 Lux @ F2.0	
	<b>Signal to noise ratio</b>	>50dB	
	<b>Video output</b>	Composite, EX-SDI, HD-SDI & 3G-SDI	
	<b>Video format</b>	1080p50/60, 1080p25/30, 720p50/60, 720p25/30 & 1080i50/60	
<b>Environmental &amp; Electrical</b>	<b>Operating depth</b>	8000m	6000m
	<b>Operating temperature</b>	-10°C to +50°C	
	<b>Storage temperature</b>	-20°C to +60°C	
	<b>Voltage</b>	12-26VDC	
	<b>Current</b>	200mA typical	
<b>Mechanical</b>	<b>Length incl connector</b>	178mm	188mm
	<b>Length excl connector</b>	134mm	142mm
	<b>Diameter</b>	30mm	34mm max, 30mm body
	<b>Weight in air</b>	Up to 0.4kg	
	<b>Weight in water</b>	Up to 0.3kg	
	<b>Housing material</b>	Titanium Grade 5	
	<b>Viewing port material</b>	Sapphire (scratch resistant)	High Performance BK7 Glass
	<b>Standard connector</b>	Subconn HF75CXBH6M (alternatives available)	



Product datasheets, GA drawings, case studies and other supporting documents are available to download from [data.oceantools.co.uk](http://data.oceantools.co.uk)

All specifications are subject to change without notice. E&OE.

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