

# OceanTools

## C4 Subsea Camera

### High Definition Internet Protocol camera

The **C4** range of cost-effective subsea Internet Protocol cameras capture HD video in low light level conditions, with a choice of lens options and depth ratings down to 3000m.



C4-10

## Overview

The **C4** subsea camera range has been designed to serve a wide range of roles underwater, operating in low light conditions, with a 120dB Wide Dynamic Range. It has rapidly become established as the IP camera of choice for many industries including offshore renewables, salvage, military and scientific research.

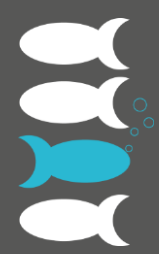
The **C4-10** has a fixed zoom with a 4mm lens fitted as standard for 73° diagonal field of view. 2.8mm wide or 6mm narrow lens options are available on request.

Colour HD video (including 1080p) is streamed using standard Internet Protocols such as the RTSP protocol, with a remote configuration interface. Lower definition streams including 720p and 360p and a range of video bit rates are also supported.

The compact subsea camera units are manufactured from Delrin acetal, anodised aluminium or titanium to achieve a 300m or 3000m depth rating with the same dimensions.

A single subsea connector supports data and power, with optional Power over Ethernet (PoE) for easy integration. Multiple IP cameras networked underwater can share a common copper or fibre uplink to the surface.





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#### Zoom and Fisheye Options

The **C4-20** has a remotely controllable optical zoom for close-up inspection. A versatile 2.8–12mm motorised varifocal zoom lens is fitted as standard. Its housing has a similar design to the **C4-10**, with a choice of 300m or 3000m depth rating and a single subsea connector.

The **C4-30** features an ultra wide angle fisheye lens, paired with an innovative hemispherical window to offer a near 180° field of view. It is also available as either a 300m or 3000m rated unit, with a choice of side or rear connector positions to allow different mounting arrangements.



*C4-20 Zoom*



*C4-30 Fisheye*

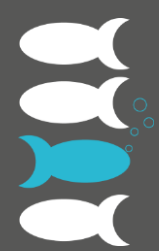
#### Related Products

The **C3** range of ultra-compact subsea cameras offer high quality video in low light level conditions, with SD composite video, HD-SDI or IP streaming options. The cameras have 30mm diameter housings with depth ratings of 8000m, or 6000m for wide angle variants.

The wider OceanTools subsea camera range includes the **C5** mono low light ROV navigation camera, **C6** high performance colour zoom camera and **C9** GigE Vision HD camera.

The OceanTools range of high performance subsea LED lamps includes the compact **L3** light and the versatile **L5** range with serial, analogue or AC Triac dimmer control options. Lamps are available with a choice of spot or flood light output and depth ratings down to 8000m.





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#### Specifications

	C4-10	C4-20	C4-30
<b>Lens type</b>	Fixed	Varifocal Zoom	Fisheye
<b>Focal length</b>	4mm	2.8–12mm	1.05mm
<b>Max field of view in water</b>	61°(H) x 34°(V) x 73°(D)	78°(H) x 44°(V) x 95°(D)	180°(H) x 180°(V)
<b>CMOS sensor size</b>	1/2.5"	1/2.5"	1/2.5"
<b>Maximum resolution</b>	2688 x 1520 (4MP)	3840 x 2160 (8MP)	2560 x 1920 (5MP)
<b>Minimum illumination</b>	0.008 Lux @ F1.2	0.01 Lux @ F1.2	0.01 Lux @ F1.2
<b>Compression standards</b>	H.265+ / H.265 / H.264+ / H.264 / MJPEG		
<b>Network protocols</b>	RTSP / FTP / DHCP / UPnP		
<b>Interface standards</b>	ONVIF (Profile S & G) / PSIA / ISAPI		
<b>Network interface</b>	10M/100M Ethernet		
<b>Input voltage</b>	24VDC (15–36VDC) or PoE 802.3af		
<b>Maximum current</b>	400mA @ 24VDC	800mA @ 24VDC	300mA @ 24VDC
<b>Depth rating</b>	300m or 3000m		
<b>Standard connector</b>	Subconn DBH8M (alternatives available)		
<b>Housing material</b>	Delrin (300m) or Aluminium (3000m)		Aluminium (300m) or Titanium (3000m)
<b>Connector position</b>	Rear		Side or Rear
<b>Length (excl connector)</b>	105mm	132mm	100mm
<b>Diameter (excl connector)</b>	110mm	125mm	160mm
<b>Weight in air</b>	0.8kg (300m) or 1.7kg (3000m)	1.6kg (300m) or 3.0kg (3000m)	2.5kg (300m) or 5.2kg (3000m)
<b>Weight in water</b>	0.1kg (300m) or 0.6kg (3000m)	< 0kg (300m) or 1.5kg (3000m)	0.8kg (300m) or 4.5kg (3000m)
<b>Operating temperature</b>	-30°C to +60°C		

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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