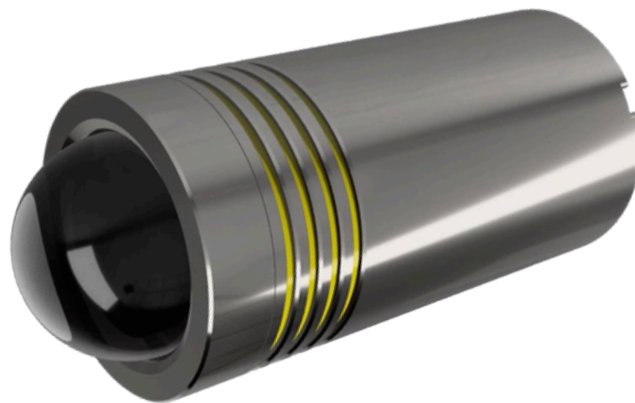




CT3027WAC User Guide



CT3027WAC Wide Angle Compact IP Colour Camera

REVISION 1.0

1. OVERVIEW

High-definition compact wide-angle subsea colour camera with IP output

The CT3027WAC is a compact high-definition subsea colour camera with a wide-angle field of view, designed for applications requiring maximum scene coverage.

Featuring a 170° fisheye lens and a 1/2 inch 2.13 MP STARVIS CMOS sensor, the camera delivers strong low-light performance and full HD image quality.

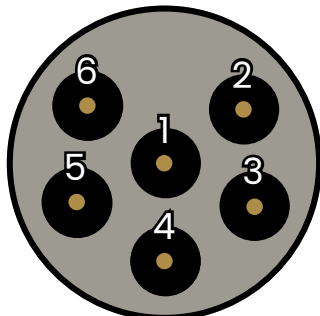
The compact and robust titanium housing allows integration onto ROV systems, diver helmets, and deployment within confined subsea environments.

2. KEY SPECIFICATIONS

- Resolution: 1920 × 1080
- Angle of view: 170° (in water)
- Depth rating: 6000 m
- Supply: 12–24 VDC
- Sensor: 1/2 inch 2.13 MP STARVIS CMOS

3. ELECTRICAL INTERFACE

Connector: MCBH6M

Pin	Function	Pin Connector Face View
1	+12–24 VDC	
2	0 V	
3	Ethernet Pair 1+	
4	Ethernet Pair 1–	
5	Ethernet Pair 2+	
6	Ethernet Pair 2–	

4. INSTALLATION

The standard wiring for the camera is detailed above. The camera is designed to operate from a regulated supply in the range of 12–24 VDC.

5. OPERATION

The camera is designed for continuous operation within the specified voltage range.

Note: Operation of the camera in air for prolonged periods will result in the body becoming hot to touch. It is advised that, for this mode of operation, a supply voltage of 12 VDC is used.

6. MAINTENANCE

The camera should be rinsed and dried after every use.

The bulkhead connector should be examined for wear or damage, cleaned, and lightly lubricated as required.

Maintenance of the camera is straightforward but should only be carried out by a competent person.

To open the unit, remove the six button head screws around the end cap. The internal module can then be removed from the housing.

During reassembly:

- Check O-ring seals and replace if required
- Reassemble in a low humidity environment
- Back-purging with nitrogen is recommended to prevent condensation forming on the port

The lens can be adjusted by rotating the inner ring. Care must be taken to avoid damage to the lens or accidental adjustment of the iris.

7. WARRANTY

C-Tecnicos warrants that its products will be free from manufacturing defects for twelve months from the date of purchase, provided they are operated under normal use and appropriate procedures are followed.

This warranty does not cover expendable items or normal wear and tear.

Full warranty terms and conditions are available on request.

8. SUPPORT

For servicing, repairs, or technical support:

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