



CT3027WA User Guide



Installation, operation, maintenance and IP configuration guidance for the C-Tecnics CT3027WA Wide Angle HD Colour Camera.

1. OVERVIEW

The CT3027WA is a compact, high-definition subsea colour camera featuring a wide-angle fisheye lens and fixed-focus design.

The camera is suitable for diver helmet mounting, handheld inspection work, ROV integration and general subsea observation. Its low-light sensitivity, Full HD resolution and wide field of view provide a versatile imaging solution for close inspection and broader observation tasks.

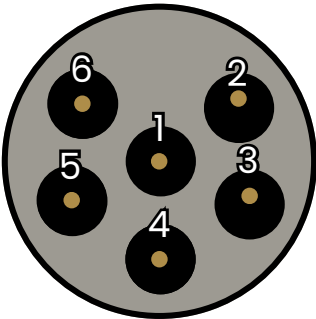
The camera provides an Ethernet-based IP video output and can be accessed through a compatible network connection.

2. KEY SPECIFICATIONS

- Resolution: 1920 x 1080 pixels
- 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: MCBH6MSS (Standard)

Pin	Function	Connector Pin 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

Before installation:

1. Inspect the camera housing, window and connector for signs of damage.
2. Confirm that the mounting arrangement is secure and suitable for the intended application.
3. Check that the mating connector is clean and free from damage or contamination.
4. Confirm that the supply voltage and connector wiring are correct.
5. Ensure that the camera cable is adequately supported and is not subject to excessive strain.
6. Make all electrical connections before applying power.

The camera may be connected directly to a computer or through a compatible Ethernet network or C-Tecnics video system.

When configuring several cameras, connect and configure one camera at a time to prevent IP address conflicts.

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. IP CONFIGURATION

The standard default camera IP address is: 192.168.0.150

The IP address assigned to the individual camera is printed on an external label on the camera housing. Always use the address shown on the label when first connecting to the camera.

Each camera connected to the same network must have a unique IP address.

To access the camera, connect it to a computer or compatible network and set the computer's IPv4 network adapter to the same address range. For example:

Computer IP address: 192.168.0.254

Subnet mask: 255.255.255.0

The computer and camera must have different IP addresses within the same subnet. Enter the camera's labelled IP address into a web browser. When prompted, use the following login details:

Username: admin

Password: admin

The camera's IP address can be changed through the browser menu. Enter an available IP address suitable for the operational network, then select Save.

After saving the new address, access the camera using its new IP address. The computer's network adapter may also need to be reconfigured if the camera has been moved to a different network range.

Where cameras have duplicate IP addresses, connect and configure each camera individually before connecting them to the same network.

The standard RTSP stream address is: `rtsp://[camera IP address]:554/h264`

For example: `rtsp://192.168.0.150:554/h264`

8. 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.

9. SUPPORT

For servicing, repairs, or technical support:

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