



CT3010

Monochrome Camera

High Resolution, Underwater Monochrome Camera with Superb Image Quality

An extremely compact high quality monochrome camera which features exceptional low light viewing qualities. The camera is ideal for general observation and either handheld or ROV mounted inspection work.



User Information

Technical Specifications

Sensor	1/2" CCD Auto-iris Lens Angle of view in air 9°
Horizontal Resolution	570 TV Lines
Signal to Noise	>52dB
Video Output Signal	1.0Vp-p Composite
Power Requirements	12-24 Volts DC
Sensitivity	5x10 ⁻⁶ lux
Housing Material	Titanium
Window Material	Sapphire Glass
Operating Temperature	-10°C – 40°C
Storage Temperature	-30°C – 60°C
Dimensions	138 x 70mm diameter
Weight (air)	1330g
Weight (seawater)	783g
Depth Rating	4000 metres (Aluminium)

Connector and Wiring Specifications

Connector

MCBH-5M

Face View



Wiring Information

Pin	Function
1	Video
2	Video Gnd*
3	Power
4	Power Gnd*
5	Not Connected

*connected together internally



Operation

The standard wiring for the camera is detailed below. The camera is designed to operate from a regulated supply in the range 12-24Vdc.

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

Maintenance

The camera should be rinsed and dried after every use. The bulkhead connector should be examined for wear/damage, cleaned and very lightly lubricated as required.

Reference should be made to the assembly drawing for details of the component parts. Maintenance of the camera is very straightforward but should only be carried out by a competent person. To open the unit, remove the six bulkhead screws around the end cap. The internal module then slides out of the housing. The focal length of the lens can now be adjusted by turning the inner ring on the lens. Care must be exercised to ensure the lens is not scratched and the Iris ring is not altered inadvertently. The lens will focus from approximately 200mm to infinity.

Maintenance (continued)

During re-assembly, the o-ring seals should be checked and replaced if in any doubt. The camera should be re-assembled in a low humidity environment to ensure no moisture is trapped in the housing which may then form condensation on the port. It is recommended to back-purge with Nitrogen to remove this possibility.

Warranty

C-Tecnicas warrants that its products will be free from manufacturing defects for twelve months from date of purchase, provided that they are operated under normal and proper use and preventive operating procedures have been followed. This warranty does not cover expendable items or normal wear and tear and is governed under the laws of Scotland. Full warranty terms and conditions are available on request.

For further information, or for returning your product for servicing or repairs, contact:

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