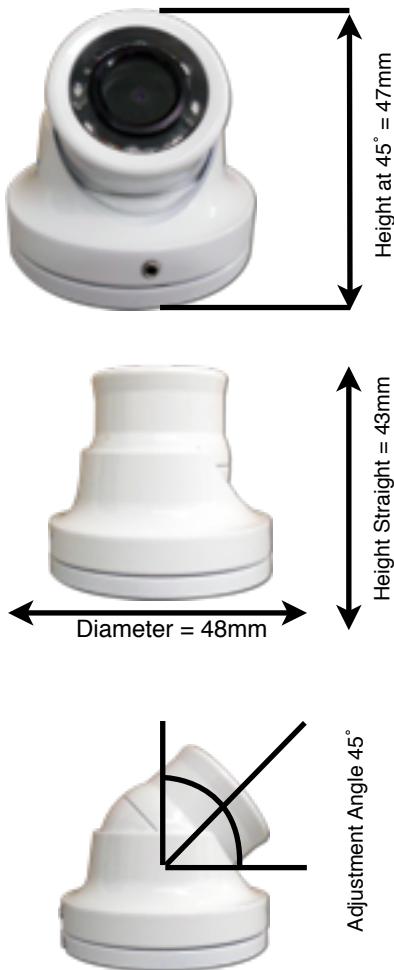


# IRIS035 Fixed Wide Angle Micro Dome Camera.

Wide Angle Dome Camera with IR LED Illumination.



Thank you for buying the IRIS035 from Iris Innovations.

This product has been designed especially for use as an on board docking camera / back-up camera for the marine industry.

Before installing and operating the product, please read this instruction leaflet to familiarize yourself with the products features, limitations and installation requirements.

## Key Features:

- \* Ultra Wide Angle View. 2.3mm provides 120° Horizontal field of view.
- \* Available in PAL or NTSC Video Formats.
- \* Available in Standard View or Mirror Image for aft facing installations.
- \* Incredibly Compact Housing. Measures only 48mm Diameter x 43mm\*
- \* High Resolution Camera Module (540 TVL).
- \* 12 x Infra Red LED's provides up to 8 meters visibility in the dark.
- \* Compatible with all Chart Plotters that support composite video inputs.
- \* Water Resistance (IP66).
- \* Day / Night Operation (Switches to monochrome in the dark).

## Installation Considerations:

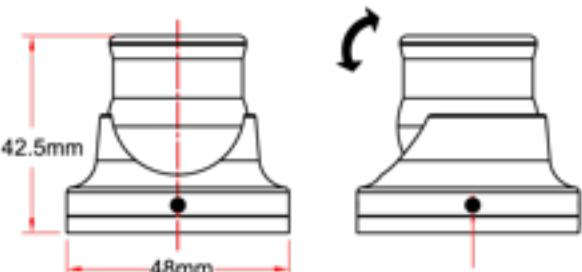
1. Camera requires 12VDC
2. Video Output connector from the camera Female RCA socket
3. Prior to fixing camera into place, power up the camera to ensure desired field of view is achieved.
4. Ensure camera does not obstruct any moving fixtures on the boat such as hatches or doors.
5. Ensure there is sufficient access in head linings and bulk heads to allow cable run, and ensure any screws used to fix the camera into place do not foul any existing cables.

## Cautions:

1. Camera operates on 12VDC ± 3V. Do not connect camera to a 24VDC supply.
2. Ensure correct polarity when connecting power. Incorrect connection will damage the camera beyond repair.
3. Avoid pointing the camera directly at sunlight as prolonged operation could damage the imaging sensor.

## Installation:

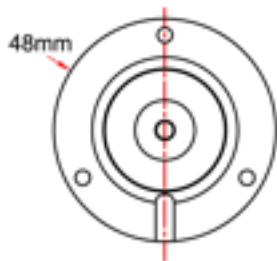
1. Sight camera in desired position. It is advised that the camera is powered up and the field of view checked before fixing into place. Also ensure the power and video cable can be run to the camera and that camera fixings screws will not foul and damage any other cable or equipment mounted behind the fixing surface.
2. Ensure power supply to camera is sufficiently protected, by either a fuse rated at 1A or a circuit breaker from the boats distribution panel. It is recommended that a power supply with an isolated ground be used.
3. Run suitable video cable from the camera back to the monitor, chart plotter or video processing device. RG59 / URM70 or RG159 mini coax is advised, although other cable can be used. Consult your local dealer or Iris Innovations before using alternative cable. CAT5 cable can also be used in conjunction with video baluns if desired.
4. Use the base of the camera as a template to mark off screw holes and cable entry hole. Carefully loosen the grub screws that hold the cup into the base and slide off, along with the camera ball and metal seating ring.



### Warning!

Loosen grub screw fully using 2mm Hex Key (supplied) prior to adjusting camera position within cup-bracket.

Failure to do so could result in damage to the paintwork which will invalidate the warranty.



## Power Connection:

The camera cable is fitted with a 2.5mm DC Barrel Jack connector.

The centre pin is positive.

If you need to cut off the connector the positive wire is coloured red and the ground is the braid.

Specifications	IRIS035 Wide Angle IR Micro Dome Camera
Imaging Sensor	1/3" Colour Sony Super HAD II CCD
TV System	PAL / NTSC. Please specify when ordering as cannot be switched.
Picture Elements	PAL: 778(H) x 500(V) / NTSC: 756(H) x 542(V)
Horizontal Resolution	540 TVL
Sensitivity	0 Lux at F1.2 (Infrared ON)
Scanning System	2:1 Interlaced
Synchronization	Internal
Infra Red Spectrum	850nm
S/N Ratio	More than 48db (AGC off)
Auto Gain Correction	Auto
White Balance	Auto
Electronic Shutter	Auto
Back Light Compensation	Auto
Day / Night	Automatic switch to monochrome.
Infra Red LED's	12 LED's
Infra Red Range	Up to 8 meters.
Video Output	1V P~P Composite Video, 75Ohm. RCA Jack Female.
Gamma Ratio	0.45
Lens	2.3mm Fixed / 120° HFOV
Lens Mount	M12 x P0.5mm Thread
Power Supply	12VDC ± 3V. 2.1mm DC Jack type connector.
Power Consumption	140mA
Dimensions	48mm Diameter x 43mm straight ball or 47mm Ball at 45° orientation
Net Weight	100g
Ingress Protection	IP66
Operating Temperature	-20°C to +50°C