



liquid optics



**Interchangeable
Through-Hull
Anchor Camera**

Key Features

- ✓ **Compact Design:**
World's smallest interchangeable through-hull camera, requiring only a 25 mm cutout.
- ✓ **Hole Cutout:**
25 mm
- ✓ **Australian Quality:**
Manufactured in Australia using the highest quality components.
- ✓ **Corrosion Resistant:**
All external components are made from plastic to prevent corrosion.
- ✓ **Wide Compatibility:**
Compatible with all marine Multi-Function Displays (MFDs) that accept CVBS/composite input.
- ✓ **Low Power Consumption:**
Designed for minimal power usage, suitable for continuous operation.
- ✓ **Easy Installation:**
Quick and straightforward installation with directional arrows for precise alignment.
- ✓ **High Resolution:**
Offers the highest resolution available in CVBS at 2000TVL, ensuring clear images.
- ✓ **Quick Replacement:**
The camera internals can be replaced in minutes without needing a costly vessel haul-out or special qualifications.
- ✓ **Nighttime Use:**
Can be used at nighttime.



Applications

Primary Purpose:

Designed to be used as a bow/anchor camera.

Through-Hull Mounting:

Ideal for installation into the vessel hull, especially under or near the anchor winch.

Aft Mounting:

Can be mounted on the aft of the boat for use as a rear-vision camera.

Harsh Marine Environments:

Perfectly suited for challenging marine conditions.

Docking Assistance:

Provides clear visibility when maneuvering in tight spaces or docking.

Security Monitoring:

Helps monitor surroundings for enhanced security while moored or anchored.

Locating Mooring Buoys:

Can be used to locate mooring buoys.

Small Vessels Assistance:

Can be used on smaller vessels to help drive your boat onto the trailer.

Specifications

Liquid Optics Lite Camera

Sensor:	1/2.8" Sony Star-class IMX307 Sensor
ISP Model:	NVP2441H
System Standard:	PAL/NTSC
Effective Pixel:	1920 (H) x 1080 (V)
Min Illuminance:	0.01 Lux
Camera Lens:	2.8 mm lens, FOV 120 degrees
Day & Night Mode:	Colour (Default) / External Control / Automatic / Black and White

Synchronization:	Internal synchronization
Frame Rate:	1080P@25fps / 1080P@30fps
Video Output:	High-quality CVBS composite video output
Operating Temp:	~20°C to 60°C
Working Humidity:	Relative humidity below 90%
Power Supply	DC12V (± 20%)
Size:	33 mm x 138 mm
Material:	External housing made of polymer material

Introducing the Liquid Optics LITE

The World's First and Smallest Interchangeable Through-Hull Camera Designed for Bow/Anchor Use



Manufactured in Australia with premium components tailored for the marine industry, the Liquid Optics LITE features a durable external housing precision-crafted through plastic injection moulding. It offers exceptional impact and chemical resistance, superior transparency, and corrosion resistance.

Designed for seamless integration into hull structures, the camera sits just 4 mm from the mounting surface, making it nearly invisible and aesthetically pleasing.

Equipped with a Sony Starlight sensor, the Liquid Optics LITE excels in low-light conditions, delivering outstanding performance with CVBS composite video output compatible with all chart plotters featuring a CVBS input. The camera boasts a wide 120-degree viewing angle and high

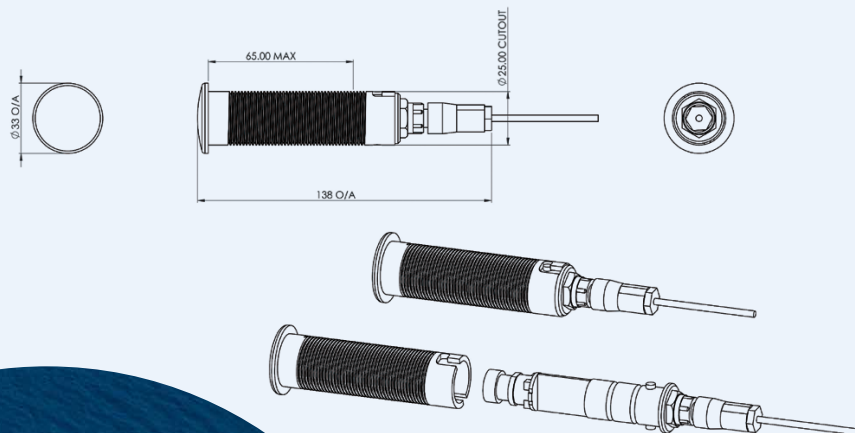
resolution for its compact size, with a resolution of 2000 TVL.

Engineered for ease of service, internal components can be quickly replaced without specialized qualifications, saving time and money for boating manufacturers, installers, and owners alike.

Installation requires only a 25 mm cutout, and a front alignment arrow on the housing facilitates straightforward alignment, significantly reducing installation time. Additionally, a keyway ensures correct guidance during internal replacements, preventing installation errors.

The camera's end cap features a plastic waterproof plug for easy removal during servicing.

Schematic Diagram






SCAN ME!



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