

PRODUCT TECH SHEET

MODEL		NIGHTWAVE		<div>SIONYX</div>				
STYLE		Colour Night Vision Marine Camera						
RELEASE		Oct 2022	RRP \$3,990					
								
					DIMENSIONS			
					LENGTH	127mm (5.0")		
					WIDTH	127mm (5.0")		
					HEIGHT	152mm (6.0")		
					WEIGHT	870g		
					PROTECTION			
					IP67 (dust and water resistant to 1m for 30 minutes.)			
					POWER			
					DC, Supplied by Marine Source			

SUMMARY

The **SIONYX NIGHTWAVE** is an ultra-low-light, colour *Night Vision Camera* that is designed for marine craft of all sizes, allowing mariners of all levels to easily spot obstacles and debris on moonless, starlit nights without the need for white light or expensive thermal cameras – navigating safely, avoiding collisions, and maximising time on the water.

The heart of the unit is of course its night vision sensor, and the **NIGHTWAVE** is built around SIONYX's patented "**Black Silicon**" **1280 x 1024 CMOS sensor**, offering amazing night vision clarity with a colossal 44 degree viewing angle - approximately the same as human eyesight - meaning a simple, clear view ahead of the craft with up to a 150m detection of a man-sized object in the water, all achieved without having to constantly adjust angles.

Coming in black, white and grey and with easy mounting and setup, the **NIGHTWAVE** can stream video to a mobile device via WiFi or directly connect to marine viewing hardware via analog output, displaying colour digital night vision - all without breaking the bank!

KEY FEATURES

- Huge 44 degree front vision arc, enabling a much wider field of view for better observation without constant adjustment to the camera.
- 16mm, F1.4 lens offers a 10m to infinity viewing range, with detection of a human sized body on the water at approximately 150m.
- Video Out: Analogue Video [NTSC/PAL].
- Analog Video Connection: SMA / BNC / RCA.
- Wireless Communications: WiFi + Bluetooth
- Flexible installation options allow seamless integration with major brand MFDs, plus WiFi video streaming to the new **SIONYX mobile app**.
- IP67 Protection Rating to protect the device against hard-spraying water, sand, salt, and dust. Dry nitrogen purged to prevent lens fogging.
- Operating temperature from -20°C to 50°C. Storage temperature from -20°C to +80°C.

TECHNICAL DETAILS

[2 Year Warranty]

CAMERA:

Sensor Type
Resolution
Lens Size
Frame Rate
Horizontal Field of View
Detect Man-Sized Object
Visible Spectrum
Focus Range
Storage Temperature
Operating Temperature Range
Ingress Protection Rating

XQE1350 "Black Silicon" CMOS
1280 x 1024
16mm, F/1.4
30Hz
44 degrees
150m (1/4 moon condition)
400-1200nm
10m to Infinity
From -20°C to 80°C
From -20°C to 50°C
IP67 - Dustproof, and waterproof to 1m for 30 minutes.

SYSTEM:

Video Out
Analog Video Connection
Wireless Communications
Power In
Power Connection
Shock and Vibration

Analogue Video [NTSC/PAL]
SMA / BNC / RCA
WiFi + Bluetooth
12V DC / 5V DC [USB]
Tinned Copper Wire / USB [with provided optional cable]
IEC60945 [V15G | H:9G] | IK08

PHYSICAL:

Weight
Dimensions
Material

870g [1.9lbs]
127mm X 127mm X 152mm (5.0" x 5.0" x 6.0")
UV Resistant Polycarbonate

MOUNTING OPTIONS:

Permanent Mounting

Temporary Mounting
Vertical Tilt Adjustment

Permanently mount to a flat surface, ball up or down, using the included mounting template and hardware.
Temporarily mount via the single 1/4" 20 center mount.
Manual once installed.

POWER & VIDEO OUTPUT:

Preferred Output

Video Output
WiFi Command and Control Options
NOTE: USB Power Output

Powering with 12V DC and using the analogue video output is the preferred method for integration with onboard electronics [MFD]. Select using the SIONYX online App.
Available via the SIONYX App using either power source.
A user may want to use USB power as a convenient option if a 12V DC battery is not available. While using USB as a power option, the analogue video output will not be available. Powering the camera with the USB is the preferred method when connecting to a host device [PC/Laptop].

CONNECTION NOTES:

Connecting with Supplied Cable, 12V DC:

WiFi Streaming	- Yes
USB Video Out	- No
Digital Video Out	- No
Analogue Video Out	- Yes

Connecting with USB:

WiFi Streaming	- Yes
USB Video Out	- No
Digital Video Out	- Yes
Analogue Video Out	- No

[See the **SIONYX App** for more details]

WHAT'S IN THE BOX:

SIONYX NIGHTWAVE Ultra Low-Light, Colour Marine Camera (CRV-500C); Analogue Video Cable [5M]; SMA to BNC adapter; BNC to RCA adapter; Power Fuse & Fuse Holder; Digital Video Cable USB [3M]; Base Gasket Mounting Hardware; User Manual; Install Template.

