



SIONYX

NIGHTWAVE®



MARINE COLOR DIGITAL NIGHT VISION CAMERA

Nightwave is an ultra low-light marine navigational camera built around SIONYX's patented Black Silicon CMOS sensor. It allows mariners of all levels to easily spot obstacles and debris in moonless starlight without white light or expensive thermal cameras – navigating safely, avoiding collisions, and maximizing time on the water. With flexible mounting options and easy setup, Nightwave connects to other hardware via analog output, displaying clear color digital night vision.

NIGHTWAVE D1 GRAY
SKU C014700
UPC-A 811251020231

NIGHTWAVE D1 WHITE
SKU C012800
UPC-A 811251020149

NIGHTWAVE D1 BLACK
SKU C014900
UPC-A 811251020248

CONNECTED

Seamless integration with major brand MFDs via the analog video output. Convenient installation flexibility and WiFi communication for command and control.

RUGGED

IP67 rating protects against water, sand, salt, and dust. Dry nitrogen purged to prevent lens fogging. Safely use Nightwave in inclement weather conditions.

CAPABLE

<1 MLX MOONLESS STARLIGHT sensitivity allows you to see well beyond human eyesight.

AWARE

44° field of view increases situational awareness to spot unexpected obstacles, debris, markers, vessels, and more.

CAMERA

SENSOR TYPE	XQE1350 BSI CMOS
RESOLUTION	1280 X 1024
FRAME RATE	30 HZ
HORIZONTAL FOV	44°
VISIBLE SPECTRUM	400-1200NM
FOCUS RANGE	10M TO INFINITY
LENS	16MM F/1.4

SYSTEM

ANALOG VIDEO OUT	NTSC (640 X 480 @ 30 HZ)
VIDEO CONNECTION	SMA / BNC/ RCA / USB
WIRELESS COMMUNICATIONS	WIFI + BLUETOOTH
POWER IN	12V DC 5VDC [USB]
POWER CONNECTION	TINNED COPPER WIRE USB
USB VIDEO OUT	720P (1280 X 720 @ 30 HZ)
WIFI VIDEO OUT	640 X 480 @ ≥ 20 FPS
WIFI RANGE	UP TO 30 M [100']

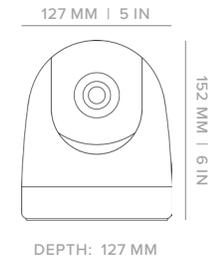
ENVIRONMENTAL

INGRESS PROTECTION	IP67 WATER/DUST RESISTANT
SHOCK & VIBRATION	IEC60945 [V15G H:9G] IK08
OPERATING TEMPERATURE	-20°C TO +50°C
STORAGE TEMPERATURE	-20°C TO +80°C

All product, product specification, and data are subject to change without notice to improve reliability, function, design, or otherwise. Visit SIONYX.COM for up-to-date documentation.

CAMERA - PHYSICAL

WEIGHT	870 G [1.9 LBS]
DIMENSIONS	127 X 127 X 152 MM [5 X 5 X 6 IN]
MOUNTING OPTIONS	TRIPOD OR RAMMOUNT
	SINGLE 1/4" 20 CENTER MOUNT
	BULKHEAD MOUNT: 4 X M6 BLIND HOLES
	TOP-DOWN MOUNTING HOLES
MATERIAL	UV RESISTANT POLYCARBONATE



RANGE PERFORMANCE

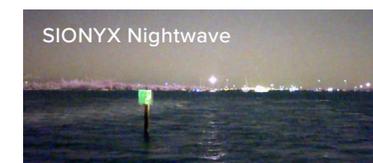
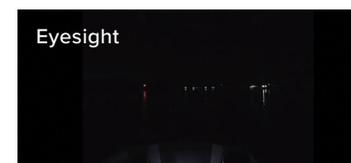
RANGE PERFORMANCE [1]	DETECTION [2]	IDENTIFICATION [3]
MAN-SIZED OBJECT [1.8 X 0.5 M]	170 M [186 YDS]	40 M [44 YDS]
VEHICLE-SIZED TARGET [2 X 2 M]	450 M [492 YDS]	120 M [131 YDS]
MARINE VESSEL-SIZED TARGET [10 X 5 M]	2.4 KM [1.5 MILES]	650 M [711 YDS]

[1] **RANGE PERFORMANCE** Range performance based on the following: Light level ≥ 1/4 moon [8mLux] weather = clear sky | probability ≥ 90%

[2] **DETECTION** Detection range based on the following: Pixels on target = 2 | target reflectivity ≥ 50%

[3] **IDENTIFICATION** Recognition range based on the following: Pixels on target = 13 | target reflectivity ≥ 50%

EYESIGHT VS NIGHTWAVE



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 100 Cummings Center | Suite 303B | Beverly, MA 01915 | USA
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Get connected with the SIONYX Mobile App



INCLUDED

CAMERA
CABLE [5M]
SMA TO BNC ADAPTER
BNC TO RCA ADAPTER
POWER FUSE & FUSE HOLDER
DIGITAL VIDEO CABLE USB
BASE GASKET
MOUNTING HARDWARE
INSTALL TEMPLATE
USER MANUAL

AVAILABLE ACCESSORIES

DESCRIPTION	SKU	PART NO.	UPC-A
VINYL SLIP-ON COVER [BLACK]	A016100	100295	00811251020316
VINYL SLIP-ON COVER [WHITE]	A016300	100296	00811251020323
ANALOG VIDEO / POWER [1 M]	A015600	100289	00811251020262
ANALOG VIDEO / POWER [5 M]	A015500	100283	00811251020255
ANALOG VIDEO / POWER [10 M]	A015700	100290	00811251020279
USB-A [3 M]	A015800	100284	00811251020286
USB-C [3 M]	A016000	100291	00811251020293
BOTTOM HOUSING SECTION [WHITE]	A015900	100285	00811251020309
BOTTOM HOUSING SECTION [BLACK]	A017000	100308	00811251020330
BOTTOM HOUSING SECTION [GRAY]	A017100	100309	00811251020347
BOTTOM GASKET, MOUNTING HARDWARE, FUSE, & FUSE HOLDER	K016200	100286	00811251020385

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