



SIONYX

OPSIN[®] DNV M1

COLOR DIGITAL NIGHT VISION MONOCULAR

MODEL MDV-400C
SKU C013400
UPC-A 811251020156

Your tactical toolbox just stepped into the future. Inspired by the U.S. DoD's desire to integrate digital night vision into surveillance and support low-light operations OPSIN brings next-level innovation to the traditional night vision market with our proprietary XQE-1350 Black Silicon CMOS sensor. OPSIN's technology provides unmatched color low-light capability plus immersive edge-to-edge digital display for up to 29% more viewing area*, recording, and navigation features that make operations more precise, efficient, and informative.

Observe targets of interest in moonless-starlight environments while remaining undetected. Record the situation as it unfolds on the onboard SD card and document geo-location with the onboard GPS module. The external battery pack extends OPSIN's operation time to a full eight hours while providing helmet counterweight for comfort during long deployment. Plus, with a jurisdiction and classification of EAR99, OPSIN is available globally with minimal export restrictions. OPSIN will change the way professional users operate in the dark.

RUGGED IP67 rated and drop-resistant. Ready to perform any mission in any environment or weather condition.

CAPABLE <1 MLX MOONLESS STARLIGHT sensitivity allows you to see and navigate in darkness, well beyond human eyesight.

AWARE 45° field of view increases your situational awareness in your peripheral vision.

CAMERA

SENSOR TYPE	XQE1350 BSI CMOS
RESOLUTION	1280 X 1024
FRAME RATE	30 60 90 HZ
HORIZONTAL FOV	45°
VISIBLE SPECTRUM	400-1200NM
FOCUS RANGE	0.2M TO INFINITY
LENS	15MM F/1.3

ENVIRONMENTAL

INGRESS PROTECTION	IP67
SHOCK & VIBRATION	2M
OPERATING TEMPERATURE	-20°C TO +55°C
STORAGE TEMPERATURE	-40°C TO +70°C

SYSTEM

SYSTEM MAGNIFICATION	0.85X
SYSTEM LATENCY	< 1 FRAME
DISPLAY	AMOLED 1920 X 1080
DIOPTER ADJUSTMENT	-4 TO +4
EYE RELIEF	25MM
EXIT PUPIL	7.5MM
LOCATION SYSTEM	BUILT-IN GPS
ORIENTATION SYSTEM	DIGITAL MAGNETIC COMPASS
WIRELESS COMMUNICATIONS	WIFI + BLUETOOTH
WIFI VIDEO OUT	720P @ ≥ 20 FPS
WIFI RANGE	UP TO 30 M (100')
AUDIO	BUILT-IN MICROPHONE
POWER IN	7.2VDC
STORAGE MEDIA	MICRO SD CARD
STORAGE CAPACITY	UP TO 256GB

CAMERA - PHYSICAL

WEIGHT	301 G [10.6 OZ]
DIMENSIONS	120 X 80 X 58 MM [4.7 X 3.1 X 2.3 IN]
MOUNTING OPTIONS	MINI RAIL
MATERIAL	GLASS REINFORCED POLYCARBONATE

BATTERY PACK

BATTERY CELLS	4 X 18650 LI-ION
VOLTAGE	7.2VDC
CAPACITY	5960MAH 42.9WH
DIMENSIONS	97 X 92 X 49 MM [3.8 X 3.6 X 1.9 IN]
WEIGHT	298G [10.5OZ]
OPERATION TIME [ALL SYSTEM FEATURES ON]	UP TO 10 HRS
OPERATION TIME [VIEWING ONLY]	UP TO 14 HRS

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%

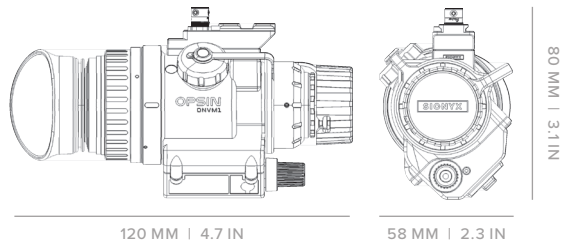
[3] **IDENTIFICATION** Recognition range based on the following: Pixels on target = 13 | target reflectivity ≥ 50%

All product, product specification, and data are subject to change without notice to improve reliability, function, design, or otherwise. Visit [SIONYX.COM](https://www.sionyx.com) for up-to-date documentation.

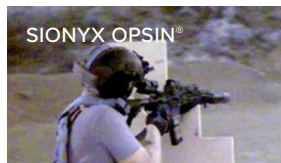
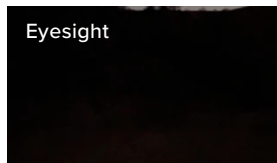


INCLUDED

CAMERA
BATTERY PACK
SWING ARM (DOVETAIL INTERFACE)
MOLLE CANVAS POUCH
MICRO SD CARD
EYECUP
LENS CAP
SAFETY BUNGEE
CHARGER
USER MANUAL



EYESIGHT VS OPSIN



AVAILABLE ACCESSORIES

DESCRIPTION	SKU	PART NO.	UPC-A
POWER CABLE	A015100	100316	00811251020392
BATTERY KIT	K014800	100317	00811251020415
SWING ARM [DOVETAIL]	A015000	100320	00811251020408
SWING ARM BAYONET ADAPTER	A016400	100318	00811251020446
SACRIFICIAL WINDOW - DEMIST SHIELD	A016600	100319	00811251020453
RUBBER ITEMS	K015200	100322	00811251020439
MOLLE BAG	A015300	100321	00811251020422

UP TO 29% MORE VIEWING AREA

**FOR REFERENCE ONLY*

Traditional PVS-14 viewing area $[20^2 \cdot \pi]$ 1256

OPSIN viewing area $[45 \cdot 36]$ 1620

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