



DIGITOWL-EB4M : PORTABLE HD DARK NIGHT SIGHT IMAGER

NATO NIGHT LEVEL : 5

FEATURES

- Deep dark night vision (NATO level 5)
- Very high resolution : 4Mpixels (2K x 2K)
- Digital zoom x2, x4, x8
- Night Detection, Recognition, Identification
- Single-hand operation
- Autonomy : 8 hours
- Digital video output : HD-SDI (SMPTE 292)
- **Optional** : Realtime orientation (IMU), GPS position and speed, SD card video recording and replay, wireless streaming, tripod or picatinny rail mount, laser range finder, laser detection.



APPLICATIONS

- Defense
- Special Forces
- Land / Naval / Air
- Customs
- Civil security

TECHNOLOGY

- Intensified EBCMOS image sensor in near infrared band (VNIR), 100µLux
- Microoled display
- Image pre-processing based on «NexIP» library



Detection*	Vehicle	1 900m (9px)
	Human	1 320m (9px)
Recognition*	Vehicle	480m (34px)
	Human	330m (34px)
Identification*	Vehicle	375m (45px)
	Human	260m (45px)

DRI VALUES



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SYSTEM CAPABILITY

- Adjustable display brightness
- Proximity sensor (display turns off when device is removed from the eyes)
- Digital zoom
- «Eventcheck» function to review last 30 seconds as video or image by image
- Positioning : geographic horizontal position (GPS latitude and longitude, date and time) and 3D orientation
- Menu to access system functions and settings
- Outgoing interface for wireless transfer of video

SPECIFICATIONS

- Temperature range -20°C to +45°C
- Battery recharge range +5°C to +35°C
- Removable battery pack
- Operational under rain
- Size (WxLxH) : 150mm x 200mm x 100mm
- Weight : 1.75kg

*About DRI :

Applying Johnson criteria to a high resolution sensor is not relevant. Since our sensor has 4 times the resolution, we define the DRI thresholds as indicated in the diagram. Calculating DigitOwl DRI values for a human according to Johnson criteria would result in D=5.2km (2.25pixels), R=1.3km (4.8pixels), l=1km (6.4pixels).



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