



ENGEREK®9

COOLED THERMAL MULTI PURPOSE TACTICAL BINOCULAR

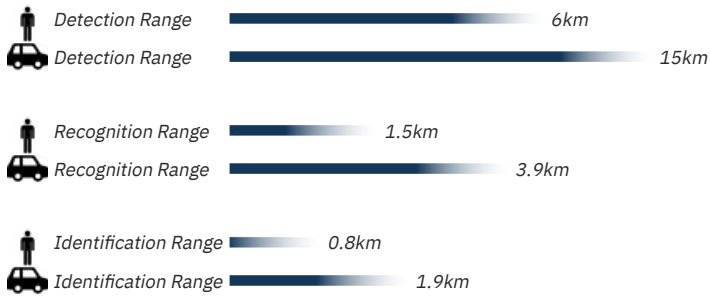


ENGEREK®9 COOLED THERMAL MULTI PURPOSE TACTICAL BINOCULAR

General Features


ENGEREK®9 is a multifunctional cooled handheld thermal binocular viewer.


The device is integrated with MWIR cooled thermal camera, low light daytime camera, laser range finder, laser pointer, GPS and digital magnetic compass. It has a compact and robust structure and is easy to use and transport.




 FOV: 29° - 2°

 3kg


 640x512 15µm

 128 x 212 x 290mm

 -30° to +50°

 Laser Range Finder

 MIL-STG 810

 GPS, Magnetic Compass

- MWIR Cooled Thermal Camera with Optical and Digital Magnification
- Thermal automatic gain / palette / contrast / gain area selection / detailing
- Low-Light Daylight Camera with Optical and Digital Magnification
- Ethernet, WIFI Video Transfer, Fusion, Image Stabilization, Auto Focus, PiP E-Magnification
- Photo / video capture and display function in internal memory
- Transfer of recordings in internal memory to USB memory and video recording on USB memory
- Laser range finder measurement in meters / yards / feet
- Target vertical and horizontal distance, spot elevation, direction and elevation angles and coordinate display
- Geographical, UTM and GRID coordinate detection
- Day / Thermal Cooler Standby / Thermal Cooler Active modes for Energy Saving
- Operator Control Unit and Mobile Router with Working feature
- Remote control feature with Rugged Tablet
- Video output interface, direct connection to an external screen



Operator Control Unit





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Technical Specifications			
INFRARED THERMAL CAMERA	Detector Resolution	640x512 15µm	
	Spectral Band	3~5µm (MWIR)	
	Electronic Magnification	8x / Narrow Field of View 29° - 2°	
	Optical Magnification	15x Continuous Magnification	
	Gain Adjustment	Automatic/Manuel	
	Polarity	White-hot / Black-hot / Colorful	
RANGE		1.8mx0.5m Human	2.3mx2.3m NATO
	Detection Distance	≥6 km	≥15 km
	Recognition Distance	≥1.5 km	≥3.9 km
	Identification Distance	≥0.8km	≥1.9 km
LOW LIGHT DAYTIME CAMERA	Resolution	1280 x 1024	
	Electronic Magnification	4x	
	Optical Magnification	30x continuous zoom / Narrow Field of View 2.3°	
GPS	Position Accuracy	≤10m	
DIGITAL MAGNETIC COMPASS	Resolution	0.1°	
	Orientation Accuracy	1° (RMS)	
LASER RANGE FINDER	Spectral Band	Class 1 eyesafe 1.5 µm	
	Distance (Visibility 15 km, target reflection 30%, 90% chance)	10 km for 2.3x2.3m typical targets 30km for targets such as buildings	
	Distance Accuracy	±2m up to 1000m	
LASER TARGET POINTER	Wavelength	830nm	
	Beam Scattering	1.5 mrad	
	Distance (At night and in open weather conditions)	>15km (When observed with a night vision device containing a GEN III Tube)	
ADVANCED FEATURES	Auto Focus		
	Image Stabilization		
	Fusion		
	PIP Zoom		
	Fall of Shot		
STORAGE	Video Storage	Video recording time >5 hours	
	Video Format	MP4	
	Picture Format	JPG	
SCREEN	OLED	Colorful, 1280x1024	
INTERFACE	Video Interface	WIFI, Ethernet, USB (Image & Video Download))	
	Communication Interface	RS422	
POWER	Power Input	External Power Supply: DC20V-35V	
	Operating Time (Continuous with battery)	≥4h (Hot-swap battery)	
ENVIRONMENTAL PARAMETERS	Operating temperature	-30°C~+50°C	
	Tightness	IP67	
PHYSICAL CHARACTERISTICS	Weight	≤3kg (Including batteries)	
	Dimensions	~128mmx212mmx290mm	

All technical parameters has 10% tolerance value.

