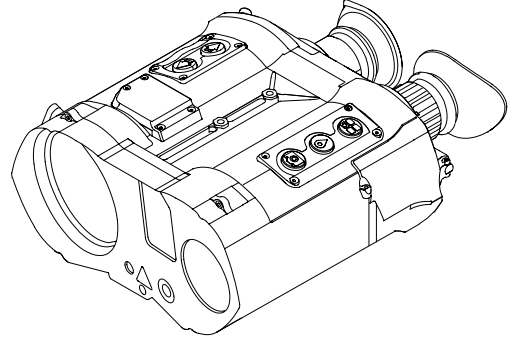


# ENGEREK-C

## HANDHELD THERMAL BINOCULAR SURVEILLANCE SYSTEM

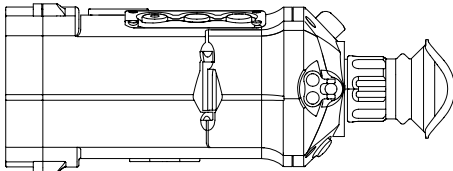


### GENERAL FEATURES

ENGEREK C is a multi-sensor observation system integrating an uncooled thermal camera, visible zoom camera, GPS, digital compass, and an eye-safe laser range finder. The system supports target detection and localization by combining range, position, and orientation data, and enables photo and video capture for surveillance, reconnaissance, and mission documentation purposes.

### SPEC SUMMARY

Usage	Handheld	
	Thermal	Day Camera
Detector Type	Uncooled $\mu B$	CMOS
Spectral Band	LWIR (8-14 $\mu m$ )	400-1100nm
Optical Magnification	4.2X	30X
Field Of View	6.3° x 5°	64° x 2.4°
Digital Magnification	2X-4X-8X	
Laser Range Finder	$\geq 6km$ (2.3m x 2.3m Target)	



	Detection		2500m
	Recognition		900m
	Detection		6500m
	Recognition		2200m



\*These calculations have been performed according to the Johnson criteria. Actual performance may vary depending on atmospheric conditions, temperature, humidity, fog, precipitation, and other environmental factors.\*

# ENGEREK-C

## SPECIFICATIONS

OPTIC		
	THERMAL	DAY CAMERA
Field Of View	6.3° x 5°	64° x 2.4°
Optical Magnification	4.2X	30X
Digital Magnification	2X-4X-8X	
Detection Range <small>(0.75m x 1.8m Human Silhouette Target 1.5 cycle)</small>	2700m	-
Detection Range <small>(2.3m x 2.3m NATO Target)</small>	6500m	-
Recognition Range <small>(0.75m x 1.8m Human Silhouette Target 3.8 cycle)</small>	900m	
Recognition Range <small>(2.3m x 2.3m NATO Target)</small>	2200m	
DETECTOR		
	THERMAL	DAY CAMERA
Detector Type	Uncooled $\mu$ B	1/2.8inch CMOS
Detector Resolution	640×512	1920×1080 2MP
Pixel Pitch	12 $\mu$ m	2.9 $\mu$ m
NETD	<40mK	-
Image Rate	$\geq$ 30Hz	
Color Palettes	5 Different Color Palettes	-
Spectral Band	LWIR (8–14 $\mu$ m)	400-1100nm
LASER RANGE FINDER		
Wavelength	1535nm	
Max Range	$\geq$ 6km (2.3m x 2.3m Target)	
Min. Measurement Range	$\leq$ 15m	
FEATURES		
Image Processing	Non-Uniformity Correction, Digital Filtering Noise Reduction, Digital Detail Enhancement	
Multimedia	Image and Video Play & Recording	
OLED Resolution	1920×1024	
OLED Type	Colored	
Wifi Connection	YES	
Resolution (Digital Magnetic Compass)	0.2°	
Orientation Accuracy (Digital Magnetic Compass)	$\pm$ 1° (RMS)	
GNSS	GPS	
Operating Time	$\geq$ 8h	
Dimensions (L x W x H)	215 × 200 × 95mm	
Weight (Without Accessories)	<1800g	
ENVIROMENTAL		
Enviromental Standards	MIL-STD 810G-H	
Operating Temperature	-32°C ~ +55°C	
Storage Temprature	-40°C ~ +70°C	

\*These calculations have been performed according to the Johnson criteria. Actual performance may vary depending on atmospheric conditions, temperature, humidity, fog, precipitation, and other environmental factors.\*  
 \*A tolerance of  $\pm 10\%$  applies to all parameters.\*