



ENGEREK® THERMAL WEAPON SIGHTS



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General Features

ENGEREK thermal weapon sights is designed to be used together with the daytime optical sight on sniper rifles and stand-alone. It has the ability to detect people and vehicles continuously for 24 hours even in poor visibility conditions, and unlike night vision devices, it can easily detect targets in complete darkness and combat environment.

ENGEREK Thermal Weapon Sights have the latest uncooled thermal imager technology, lightweight, compact and has low power consumption. There is no reticle and sight zeroing device on the Thermal Scope and the reticle and sight zeroing capabilities of the daytime optical scope are utilized.



Standard Accessories

- Transportation Container
- Bellows/Eye Cup
- Mounting Bracket
- Protective Cover
- Remote Control
- Charging Device
- Vehicle Adapter
- Socket Adapter
- USB Cable
- Battery
- Booklet
- Cleaning Kit



ENGEREK® THERMAL WEAPON SIGHTS (CLIP-ON)



Technical Specifications								
Model		C27	C48	C56	C70	C120	C120HD	
OPTIC SPECIFICATIONS	FOV	16.3°x13°	9.3° x 7.45°	8° x 6°	6.4° x 5°	3.7° x 3°	6° x 4°	
	Optic Zoom	1X	1X	1X	1X	1X	1X	
	Digital and Optic Total Zoom	X2	1.0 ~ 8.0X	1.0 ~ 8.0X	1.0 ~ 8.0X	1.0 ~ 8.0X	1.0 ~ 4.0X	
	Detection Distance (0.75x1.8 m Human Silhouette Target 1.5 cycle)	1250m	1500m	2000m	2500m	3500m	4000m	
	Identification Distance (0.75x1.8 m Human Silhouette Target 3.8 cycle)	400m	600m	800 m	1500m	2000m	2500m	
DETECTOR SPECIFICATIONS	Technology	Uncooled μ B	Uncooled μ B	Uncooled μ B	Uncooled μ B	Uncooled μ B	Uncooled μ B	
	Resolution	640x512	640x512	640x512	640x512	640x512	1024x768	
	Spectral Band	LWIR (8-12 μ m)	LWIR (8-14 μ m)	LWIR (8-14 μ m)	LWIR (8-14 μ m)	LWIR (8-14 μ m)	LWIR (8-14 μ m)	
	Pixel Pitch	12 μ m	12 μ m	12 μ m	12 μ m	12 μ m	12 μ m	
	NETD (with F1.0 lens)	50mK	50mK	50mK	50mK	40mK	40mK	
	Image Rate	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	
	Polarity	Warm White, Cold White						
	Color Palettes	Min 5	Min 5	Min 5	Min 5	Min 5	Min 5	
GENERAL SPECIFICATIONS	Lining	Digital Noise Reduction, Digital Detail Enhancement						
	Multimedia	Image and Video Capture						
	Battery Count, Type	2 pcs Lithium Polymer 18650						
	Battery Life (Normal Use)	360min	360min	360min	360min	360min	240min	
	Outline Contour	Yes	Yes	Yes	Yes	Yes	Yes	
	WIFI Connection	Yes	Yes	Yes	Yes	Yes	Yes	
	Remote control	Yes	Yes	Yes	Yes	Yes	Yes	
	Inclinometer	Yes	Yes	Yes	Yes	Yes	Yes	
	Bullet counting	Yes	Yes	Yes	Yes	Yes	Yes	
	Color	Type 3 Hard Anodized with TAN Color Coating Screw, cover, button, accessories and other parts may have different colors						
	Body Material	Aluminium 7075-T6						
	Rail Interface	Compatible with STANAG 4684 Attachable-detachable without any tool, lock mechanism against self-opening No more than 0.5 MOA change during assembly/disassembly of target line and between shoots						
	Optic Axis Height	Height of colorimeter/ocular optic axis above Picatinny rail is 40 \pm 3mm						
	Target Angle	The height between colorimeter's optic axis and Picatinny rail increases with an angle of 40 \pm 3 MOA as it moves towards the user						
	OLED Resolution		1024x768	1280x1024	1024x768	1024x768	1024x768	
	OLED Type	Colored	Colored	Colored	Colored	Colored	Colored	
	Device Dimensions (Length x Width x Height) (cm)	135x77x80		18 x 8.2 x 12	20 x 8.2 x 12.5	25 x 15 x 10	27 x 15 x 10	
	Total Weight of Device and Mounting Bracket (Without Accessories)	600g		850 g	950 g	1.8 Kg	1.9 Kg	
	ENVIRONMENTAL CONDITIONS	Seal	Device maintains its seal for two hours under atmospheric pressures between 0.5-1.5 Usable between 0.7-1.3 atm					
		Temperature Shock	Transferable to temperatures between -40 - +50°C after resting at ambient temperature for 5 minutes					
Working Temperature		-30°C / + 50°C						
Storage Temperature		-40°C / + 70°C						



ENGEREK® THERMAL WEAPON SIGHTS (STAND-ALONE)



Technical Specifications										
Model		S21	S27	S38	S48	S56	S70	S120	S120HD	
OPTIC SPECIFICATIONS	FOV	20.5° x 16.5°	16.3°x13°	11.5°x9°	9.3° x 7.45°	8° x 6°	6.4° x 5°	3.7° x 3°	6° x 4°	
	Optic Zoom	1.3X	2X	2.4X	3X	3X	4X	7X	4.4X	
	Digital and Optic Total Zoom	1.0 ~ 8.0X	1 ~ 4X	2.4 ~ 4X	3 ~ 12X	3 ~ 12X	4 ~ 16X	7 ~ 28X	4.4 ~ 17X	
	Detection Distance (0.75x1.8 m Human Silhouette Target 1.5 cycle)	1000m	1250m	1750m	1500m	2000 m	2500 m	3500m	4000m	
	Identification Distance (0.75x1.8 m Human Silhouette Target 3.8 cycle)	350m	400m	600m	600m	800m	967 m	2000m	2500m	
DETECTOR SPECIFICATIONS	Technology	Uncooled µB	Uncooled µB	Uncooled µB	Uncooled µB	Uncooled µB	Uncooled µB	Uncooled µB	Uncooled µB	
	Resolution	640x512	640x512	640x512	640x512	640x512	640x512	640x512	1024x768	
	Spectral Band	LWIR (8-14µm)								
	Pixel Pitch	12µm	12µm	12µm	12µm	12µm	12µm	12µm	12µm	
	NETD (with F1.0 lens)	50mK	50mK	50mK	50mK	50mK	50mK	50mK	40mK	40mK
	Image Rate	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz	min 25 Hz
	Polarity	Warm White, Cold White								
	Color Palettes	Min 5	Min 5	Min 5	Min 5	Min 5	Min 5	Min 5	Min 5	
GENERAL SPECIFICATIONS	Lining	Digital Noise Reduction, Digital Detail Enhancement								
	Multimedia	Image and Video Capture								
	Battery Count, Type	2 pcs Lithium Polymer 18650								
	Battery Life (Normal Use)	360 min	360 min	360 min	360 min	360 min	360 min	360 min	360 min	
	Outline Contour	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	WIFI Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Remote control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Inclinometer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Bullet counting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Color	Type 3 Hard Anodized with TAN Color Coating Screw, cover, button, accessories and other parts may have different colors								
	Body Material	Aluminium 7075-T6								
	Rail Interface	Compatible with STANAG 4684 Attachable-detachable without any tool, lock mechanism against self-opening No more than 0.5 MOA change during assembly/disassembly of target line and between shoots								
	OLED Resolution	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	
	OLED Type	Colored	Colored	Colored	Colored	Colored	Colored	Colored	Colored	
	Device Dimensions (Length x Width x Height) (cm)	155x85x90	135x77x80	135x77x80 mm				20x8.2x12.5		
Total Weight of Device and Mounting Bracket (Without Accessories)	<600 g	<600 g	<600 g		850 g	1 kg	1.8 Kg	1.9 Kg		
ENVIRONMENTAL CONDITIONS	Seal	Device maintains its seal for two hours under atmospheric pressures between 0.5-1.5 Usable between 0.7-1.3 atm								
	Temperature Shock	Transferable to temperatures between -40 - +50°C after resting at ambient temperature for 5 minutes								
	Working Temperature	-30°C / + 50°C								
	Storage Temperature	-40°C / + 70°C								