ENGEREK®-C120-S120 Thermal Weapon Sight

General Features

ENGEREK-C120 sniper thermal weapon sight is designed to be used together with the daytime optical sight on sniper rifles.
ENGEREK-C120/S120 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. The ENGEREK-C120/S120 has 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.

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Use		Clip-On	Standalone
Model		**C120**	**S120**
OPTIC SPECIFICATIONS	**View Angle**	3.67° x 2.93°	3.67° x 2.93°
	Optic Zoom	1X	7.52X
	Digital and Optic Total Zoom	1.0 ~ 8.0X	7.52 ~ 60X
	Detection Distance (0.75x1.8 m Human Silhouette Target 1.5 cycle)	2015 m	
	Identification Distance (0.75x1.8 m Human Silhouette Target 3.8 cycle)	936 m	
DETECTOR SPECIFICATIONS	**Technology**	No cooling µb	
	Resolution	640x512	640x512
	Spectral Band	LWIR (8-14 µm)	
	Pixel Pitch	12 µm	
	NETD	Max 50 mK (with F1.0 lens)	
	Image Rate	Max 25 Hz	
	Polarity	Warm White, Cold White	
	Color Palettes	Min 5	
GENERAL SPECIFICATIONS	**Lining**	Digital Noise Reduction, Digital Detail Enhancement	
	Multimedia	Image and Video Recording	Image and Video Recording
	Battery Count, Type	2 units of Lithium Polymer 18650	
	Battery Life (Normal Use)	360 min	360 min
	Color	Type 3 Hard Anodized with TAN Color Coating Screw, cover, button, accessories and other parts may have different colors	
	Body Material	Aluminum 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±3mm	
	Target Angle	The height between colorimeter's optic axis and Picatinny rail increases with an angle of 40±3 MOA as it moves towards the user	
	OLED Resolution	1024x768	1280x1024
	OLED Type	Color	
	Device Dimensions (Length x Width x Height) (cm)	25 x 15 x 10	23 x 15 x 10
	Total Weight of Device and Mounting Bracket (Without Accessories)	1.75 Kg	1.65 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	

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