

## Ultra Long Range Thermal / Optical Tracking System


















### SPECIFICATIONS OF ULTRA LONG RANGE THERMAL / OPTICAL TRACKING SYSTEM

Physical Characteristics	Sealing	IP67
	Size	690 (w) x 500 (l) x 350 (h) mm
	Total Weight	40 kg
	Power	18-32 VDC (50 - 500 W Operation) mains 110 - 240 V power supply available
	Operating Temperature	-20°C to +40°C ( -32°C to +55°C on request)
	Payload Interface	Ethernet
Pan and Tilt Platform	Pan Range	Continuous 360° BLDC
	Tilt Range	90° BLDC
	Max. speed	0.008 °/s to 120 °/s
	Resolution	0.001° (0.018 mrad)
	Repeatability	0.001° (0.018 mrad)
	Static Accuracy	0.015° (0.26 mrad)
EO (Daylight) Optical Unit	Sensor Core	1920 x 1080 HD
	Type	1/1.8-type CMOS Sensor with high sensitivity, super image stabiliser, continuous zoom and manual/auto focus
	HFOV	1.4° to 29.0°
	Focal Length	13 mm to 261.5 mm
MWIR (Thermal) Optical Unit	Sensor Core	1280 x 720 HD Cooled Thermal
	Type	High-Sensitivity Cooled Infrared
	Spectral Range	MWIR - 3.5 um to 5 um
	Pixel Pitch	10 um
	Cooled Engine	Rotary Stirling
	Noise Temp (NTE)	<35mK@ ambient (typically <32 33 mK)
	HFOV	0.81° to 10.1°
	Focal Length	72 mm to 900 mm
	Max. Tracking	8 km
	Max. Classification	4.3 km



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## VISUAL EXAMPLE

Drone / Distance	500 m	1.000 m	1.500 m	2.000 m	2.500 m
Phantom 4 (White Hot Filter)					
Phantom 4 (Black Hot Filter)					
Mavic (White Hot Filter)					
Mavic (Black Hot Filter)	