



Horizon 60TM

Imaging Radar, Multi-Domain

KMB Telematics, Inc.

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Preliminary - Subject to Change

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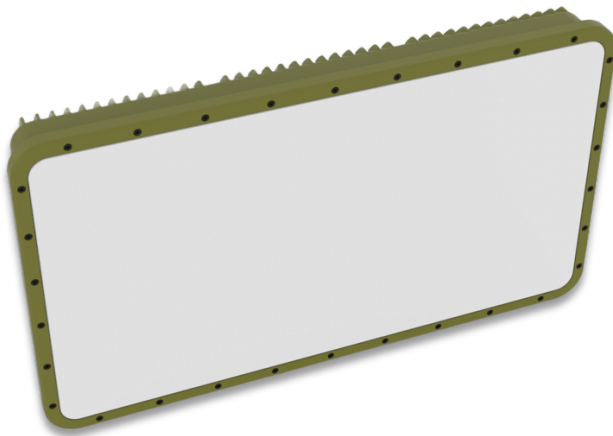
Patent Notice

Technologies and products described in this document are covered by US patents 11,435,471; 11,448,754; 11,728,839; 11,835,647; 11,965,955. Other patents and pending patents may also apply.

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Specifications, Preliminary



Size	65	cm x 37 cm x 14 cm
Weight	16.5	kg
Power	300	W In operation, peak
	205	W In operation, steady state
	<1	W Standby
Resolution, horizontal	1.6	deg
Resolution, vertical	2.1	deg
Angular accuracy, horizontal	0.2	deg
Angular accuracy, vertical	0.2	deg
Field of view, horizontal	160	deg (± 80 deg)
Field of view, vertical	170	deg (± 85 deg)
Maximum range of detection		
To DJI Mavic (RCS: -20 dBsm)	2,150	m Clear weather
	1,840	m Light rain: 5 mm/hr
	1,460	m Heavy rain: 12 mm/hr
To dismount (RCS: 0 dBsm)	8,400	m Clear weather
	5,520	m Light rain: 5 mm/hr
	3,550	m Heavy rain: 12 mm/hr
To truck (RCS: 10 dBsm)	15,050	m Clear weather
	8,430	m Light rain: 5 mm/hr
	4,970	m Heavy rain: 12 mm/hr
Range resolution	15	m
Refresh rate	1.7	frames / sec
Min speed	0	m/s Zero Doppler™
Max speed	174	m/s
Velocity resolution	0.09	m/s
Frequency band	24	GHz K _a band
Input voltage	28	V MIL-STD-1275E
Electrical Interfaces	Power, high-speed data	

Communications protocol	2.5G Ethernet	
Output data	3D imagery: reflectivity and velocity	High bandwidth, suitable for classification or sensor fusion using AI
	Target tracks	Low bandwidth, suitable for cuing other sensors
Temperature, operation	-25 - 55 °C	
Temperature, storage	-40 - 80 °C	
Shock, Vibration	MIL-STD-810H	Shock (516.8), vibration (514.8)
Ingress protection	IP 69K	Waterproof, washable