

# Horizon 60<sup>™</sup> Imaging Radar, Multi-Domain

KMB Telematics, Inc.

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### **Preliminary - Subject to Change**

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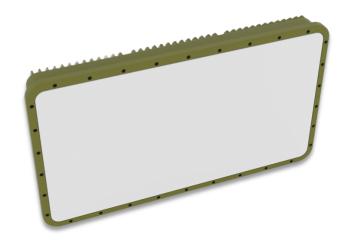
# **Patent Notice**

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.

## **Export Control Classification Number (ECCN)**

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# Specifications, Preliminary





Size	65	cm x 37 cm x 14 cm		
Weight	16.5	kg		
Power	205	W	In operation,	, peak
	<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	( $\pm$ 80 deg)	
Field of view, vertical	170	deg	( $\pm$ 85 deg)	
Maximum range of detection				
To DJI Mavic (RCS: -20 dBsm)	2,150	m	Clear weath	er
	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 velocity	0	m/s	Zero Doppler™	
Max velocity	± 87	m/s		
Velocity resolution	0.09	m/s	m/s	
Frequency band	24	GHz K <sub>a</sub> band		
Input voltage	28	V MIL-STD-1275E		'5E
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 Al	
	Target tracks	Low bandwidth, suitable for cuing other sensors	
Temperature, operation	-25 - 55 °C		
Temperature, storage	-40 - 80 °C		
Ingress protection	IP 69K	Waterproof, washable	