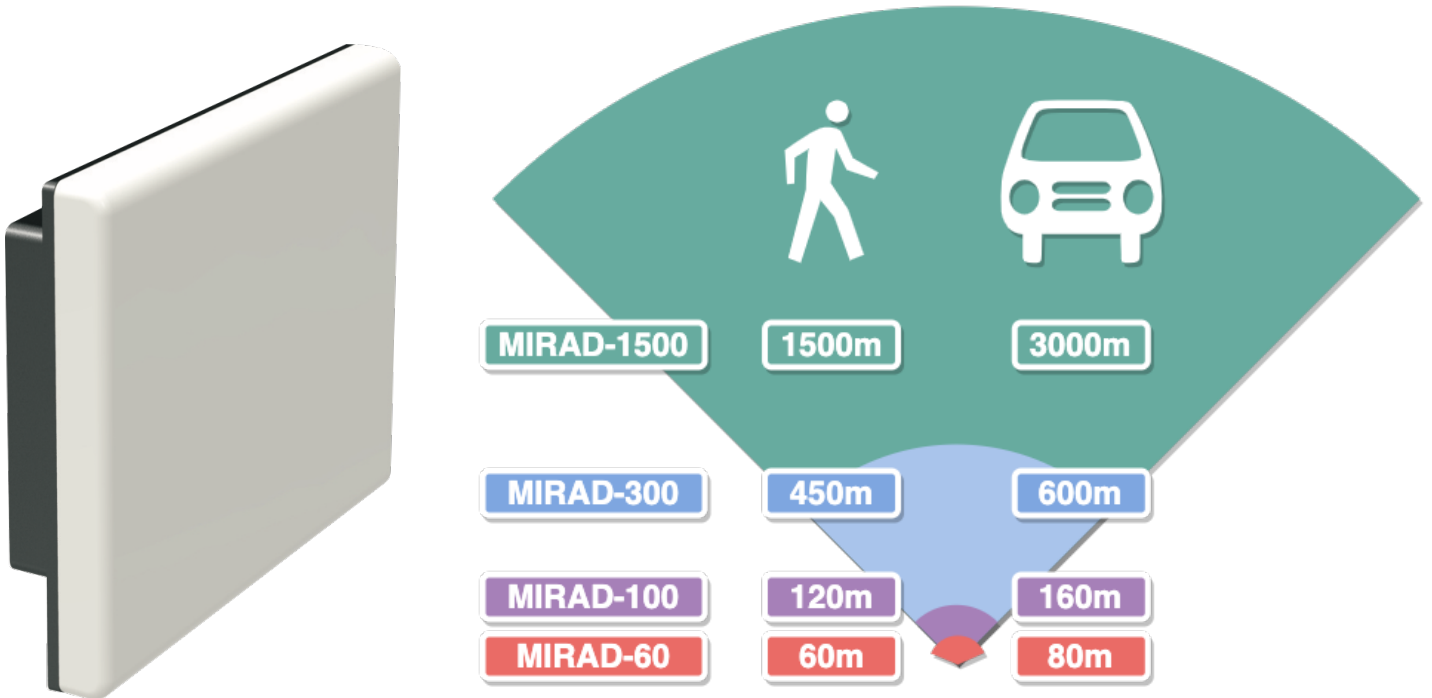


MIRAD WIDE AREA DETECTION RADAR RANGE

REAL TIME THREAT DETECTION OF MOVING OBJECTS IN ANY WEATHER CONDITION



The MIRAD surveillance radars are a state-of-the-art radar range that autonomously monitors, detects and alerts users of moving objects in protected regions. Ideally used around perimeters, MIRAD can detect objects in ranges up to 3000m away across flat terrain, with minimal false alarms.

Built from solid state technology, the digital beam forming radars operates in the license free 60GHz M-band / 24GHz K-band and 9.5GHz X-Band with very low output power and poses no radiation hazard. Ideal for use in large outdoor spaces in any weather condition and under poor visibility.

With no moving parts, low cost and low power makes this an ideal detection device for a huge range of perimeter applications from large residences, military bases, solar farms and national borders.

When used with SharpView Controller software one or multiple radars can be used together to automatically control your cameras with different classification patterns like zone of detection, speed or distance to critical assets.

Key Features

Early warning wide area protection

Detection of people from 1 to 1500m and vehicles from 1 to 3000m
Get an alert BEFORE the threat is close to the perimeter border

Mapping and camera tracking

In combination with SharpView Controller software all detections can be displayed on a map, recorded and associated with cameras that are able to track any activity

Filtering and prioritize detections by zone

Accurate multi target tracking

Up to 100 moving objects can be tracked simultaneously with less than 1m resolution













Easy to use, install and maintain

No moving parts inside the radar reduces maintenance and increases device lifespan

Low power & PoE interface

Using less than 4W and with easy to install PoE interface makes the radar ideal for any kind of deployment

TECHNICAL SPECIFICATION

MODEL	MIRAD-60 (NEW)	MIRAD-100	MIRAD-300	MIRAD-1500 (NEW)
				
SENSOR TYPE	FMCW – Phased array – No moving parts			
BUILT-IN TRACKER (n° of tracks)	20	20	20	100
FALSE ALARM RATE	<1 per day			
FREQUENCY (GHz)	61.5 ~ 61.8 (M-Band)	24.05 ~ 24.20 (K-Band)	24.00 ~ 24.10 (K-Band)	9.5 ~ 9.8 (X-Band)
TRANSMIT POWER EIRP (dBm)	22	20	30	*
SCAN RATE (scan per second)	15	8		5
ALARM INTERFACE	2 lines (0.5A/125AC) 2 lines (I/Os / 2500VAC)	2 lines (0.5A/125AC) 2 lines (I/Os / 2500VAC)	No	No
NETWORK PROTOCOL	HTTP, DNS, NTP, TCP, UDP, DHCP, ARP, SSH			
COMMUNICATION INTERFACE	RJ45 10M/100M - PoE	RJ45 10M/100M - PoE	RJ45 10M/100M - PoE+	RJ45 10M/100M *
DISTANCE / SPEED / ANGLE				
SPEED RANGE (m/s)	0.29 ~ 8.9	0.3 ~ 30	0.3 ~ 30	0.3 ~ 30 *
SPEED RESOLUTION (m/s)	± 0.29	± 1.6	± 1.6	± 0.3
DISTANCE RANGE (m)	 60  80	 120  160	 450  600	 1500  3000
DISTANCE ACCURACY (m)	± 0.36	± 0.5	± 0.75	± 1
DISTANCE RESOLUTION (m)	0.72	1	1.5	8
ANGLE RESOLUTION (°)	± 0.2	± 1	± 1	± 1.5
ANTENNA PERFORMANCE (BEAM WIDTH / TX)				
AZIMUTH/HORIZONTAL (°)	120	90	90	90
ELEVATION/VERTICAL (°)	21	13	13	18
GENERAL				
WORKING CURRENT	0.2A @ 12VDC < 3W	0.5A @ 12VDC < 6W	1.25A @ 12VDC < 15W	2.5A @ 12VDC < 30W
WEIGHT (kg)	1	1	1.65	5.9
OPERATION TEMP. (°C)	-40 ~ 70	-40 ~ 75	-40 ~ 75	-40 ~ 75 *
STORAGE TEMP. (°C)	-40 ~ 105	-40 ~ 85	-40 ~ 85	-40 ~ 85
DIMENSIONS (mm)	150 (L) x 126 (W) x 73.6 (H)	194 (L) x 158 (W) x 49 (H)	235 (L) x 175 (W) x 47.5 (H)	360 (L) x 280 (W) x 60 (H)
PROTECTION	IP67	IP66	IP66	IP66
CERTIFICATES	CE **	CE	CE	CE **

* Specification may change

** In process of certification – other certifications can be obtained



No liability will be accepted by Buavi Sistemas de Seguridad y Control S.L. for any errors or omissions in this information. Subject to change without notice.

MIRAD-RADAR-RANGE-Version 4

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