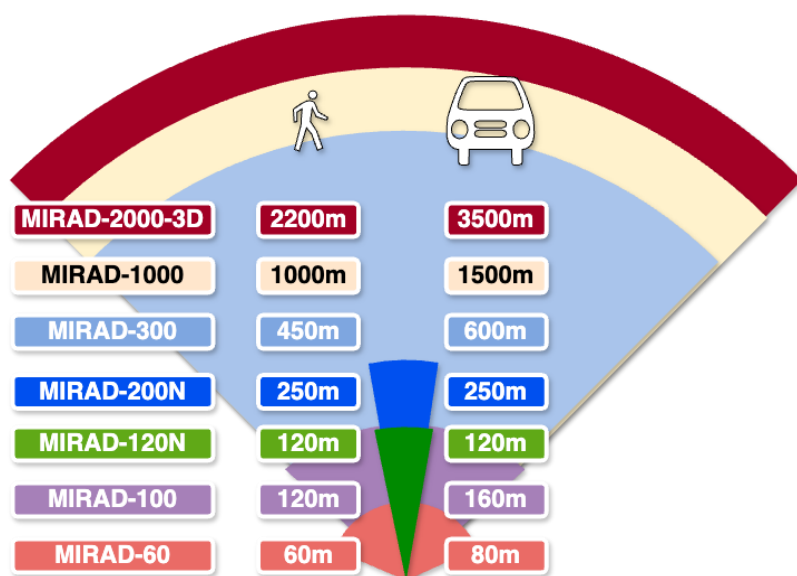
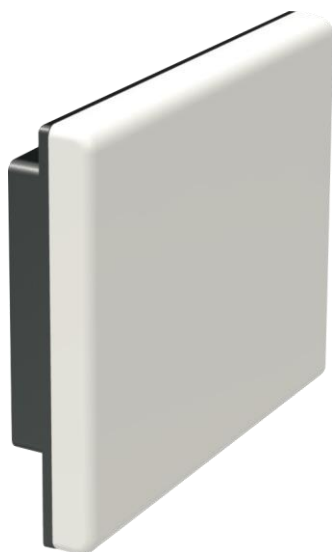


MIRAD RADAR DETECTION

Real time threat detection of moving objects in any weather condition



Key Features

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 6km away (MIRAD-2000-3D) 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.

Early warning wide area protection

Detection of people from 1 to 2200m and vehicles from 1 to 3500m
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 between 3 and 15W and with easy to install PoE interface makes the radar ideal for any kind of deployment



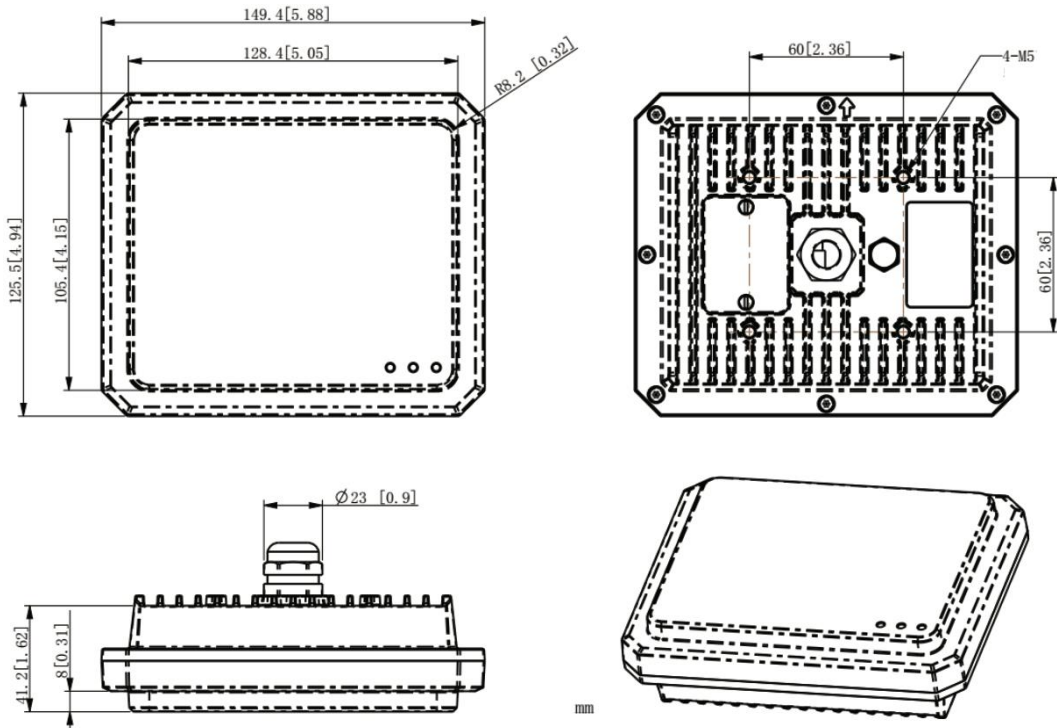
Technology to keep you safe

Specifications

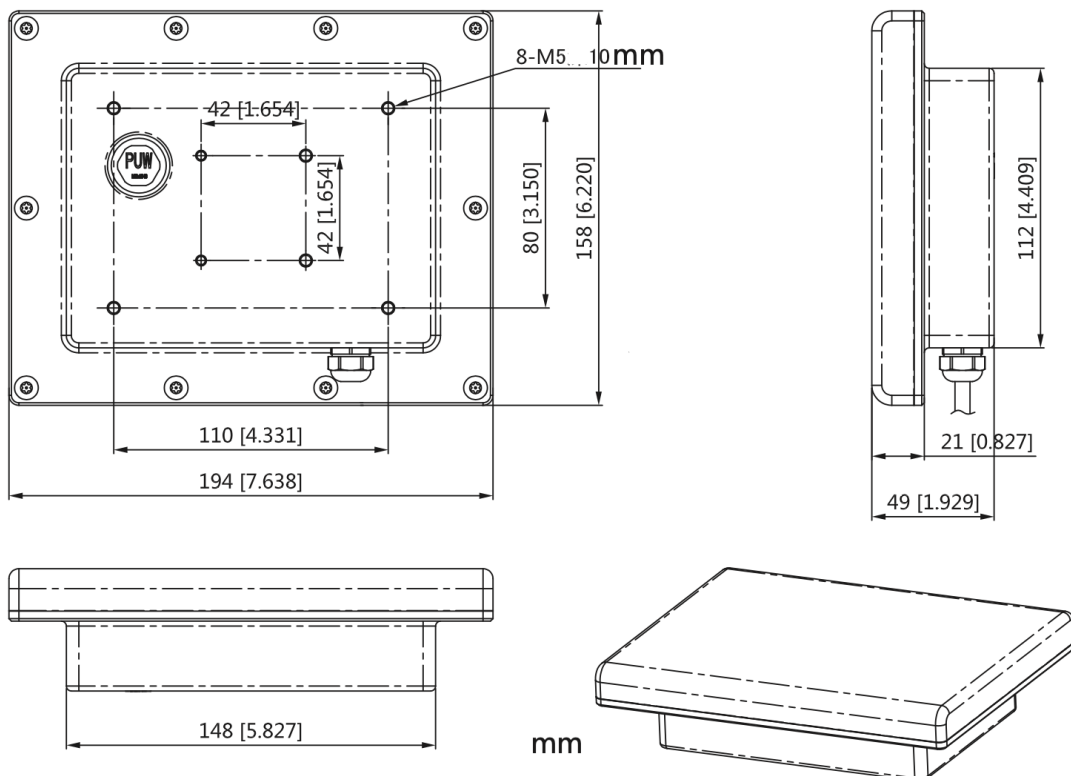
MODEL	MIRAD-60	MIRAD-100	MIRAD-120N	MIRAD-200N	MIRAD-300	MIRAD-1000
						
SENSOR TYPE	FMCW – Phased array – No moving parts					
BUILT-IN TRACKER (n° of tracks)	20	20	20	20	20	128
FALSE ALARM RATE	<1 per day					
FREQUENCY (GHz)	61.5 ~ 61.8 (M-Band)	24.05 ~ 24.20 (K-Band)	24.05 ~ 24.15 (K-Band)	24.00 ~ 24.25 (K-Band)	24.00 ~ 24.10 (K-Band)	24.00 ~ 24.25 (K-Band)
TRANSMIT POWER EIRP (dBm)	22	20	30	30	30	30
SCAN RATE (scan per second)	15	8			5	8
ALARM INTERFACE	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+	
DISTANCE / SPEED / ANGLE						
SPEED RANGE (m/s)	0.29 ~ 8.9	0.3 ~ 30	0.03 ~ 30	0.3 ~ 30	0.3 ~ 30	0.5 ~ 30
SPEED RESOLUTION (m/s)	± 0.29	± 1.6	± 1.6	± 1.6	± 1.6	± 0.06
DISTANCE RANGE (m)	 60  80	 120  160	 120  120	 250  250	 450  600	 1000  1500
DISTANCE ACCURACY (m)	± 0.36	± 0.5	± 0.75			
DISTANCE RESOLUTION (m)	0.72	1	1.5			1
ANGLE RESOLUTION (°)	± 0.2	± 1				
ANTENNA PERFORMANCE (BEAM WIDTH / TX)						
AZIMUTH/HORIZONTAL (°)	120	90	20	20	90	90
ELEVATION/VERTICAL (°)	21	13	13	13	13	13
GENERAL						
WORKING CURRENT	0.2A @ 12VDC < 3W	0.5A @ 12VDC < 6W	0.6A @ 12VDC < 8W	0.6A @ 12VDC < 8W	1.25A @ 12VDC < 15W	<35W
WEIGHT (kg)	1	1	1.65	1.65	1.65	2.5
OPERATION TEMP. (°C)	-40 ~ 70	-40 ~ 75	-40 ~ 75	-40 ~ 75	-40 ~ 75	-40 ~ 65
STORAGE TEMP. (°C)	-40 ~ 105	-40 ~ 85	-40 ~ 85	-40 ~ 85	-40 ~ 85	-40 ~ 85
DIMENSIONS (mm)	150(L) 126(W) 74(H)	194(L) 158(W) 49(H)	235(L) 175(W) 54(H)	235(L) 175(W) 54(H)	235(L) 175(W) 48(H)	234(L) 292(W) 49.3(H)
PROTECTION	IP67	IP66	IP66	IP66	IP66	IP66
CERTIFICATES	CE	CE/ANATEL	CE/ANATEL	CE/ANATEL	CE/ANATEL	-

Dimensions

MIRAD-60



MIRAD-100



buavi

Dimensions

MIRAD-120N / MIRAD-200N / MIRAD-300

