

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 1Km away across flat terrain, with minimal false alarms.

Built from solid state technology, the digital beam forming radar operates in the license free 5.8GHz 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 250 to 800m and vehicles from 400 to 1000m
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-250	MIRAD-500	MIRAD-1000
SENSOR TYPE	MIMO digital	MIMO digital	MIMO digital
FREQUENCY	5.8GHZ (C-Band)	5.8GHZ (C-Band)	5.8GHZ (C-Band)
SCAN RATE	2 scans per second	2 scans per second	2 scans per second
ANTENAS	Phased array	Phased array	Phased array
MOVING PARTS	No	No	No
MTBF	50,000 hours	50,000 hours	50,000 hours
COVERAGE	250m people, 400m vehicle	100m drone, 400m people, 800m vehicle	200m drone, 800m people, 1000m vehicle
AZIMUTH	120º	120º	100º
ELEVATION	30º	30º	30º
RANGE RESOLUTION	<1m	<1m	<1m
AZIMUTH ACCURACY	1º	1º	1º
TARGET SPEED	0.3 – 30m/sec	0.3 – 30m/sec	0.3 – 30m/sec
FALSE ALARM RATE	<1 per day	<1 per day	<1 per day
TRACKING	Built-in tracker	Built-in tracker	Built-in tracker
POWER	48V PoE – 3.5W	48V PoE – 3.5W	48V PoE – 3.5W
INTERFACE	Ethernet with POE according to IEEE 802.3at Type 1 (802.3af) and Type 2	Ethernet with POE according to IEEE 802.3at Type 1 (802.3af) and Type 2	Ethernet with POE according to IEEE 802.3at Type 1 (802.3af) and Type 2
WEIGHT	1.5Kg	1.5Kg	3Kg
DIMENSIONS	250mm(w) x 150mm (h) x 59mm(d)	250mm(w) x 150mm (h) x 59mm(d)	250mm(w) x 300mm (h) x 80mm(d)
WEATHERPROOF	IP67	IP67	IP67
CERTIFICATES	5.8/2.4FCC & CE compliant	5.8/2.4FCC & CE compliant	5.8/2.4FCC & CE compliant

Models in this range

BU-MIRAD-250

250m people, 400m vehicle

BU-MIRAD-500

400m people, 600m vehicle

BU-MIRAD-1000

800m people, 1000m vehicle

Associated products

BU-POE-INJECTOR

48V PoE Injector

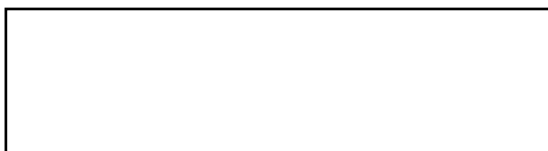
BU-MIRAD-WALL-BRACKET

Wall bracket for MIRAD radar

Wall bracket for MIRAD radar

BU-MIRAD-CABLE-15

15m outdoor rugged operational cable



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MIRAD-RADAR-RANGE-Version 1

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