

Radar Surveillance System Product Line

Shield Anywhere Anytime

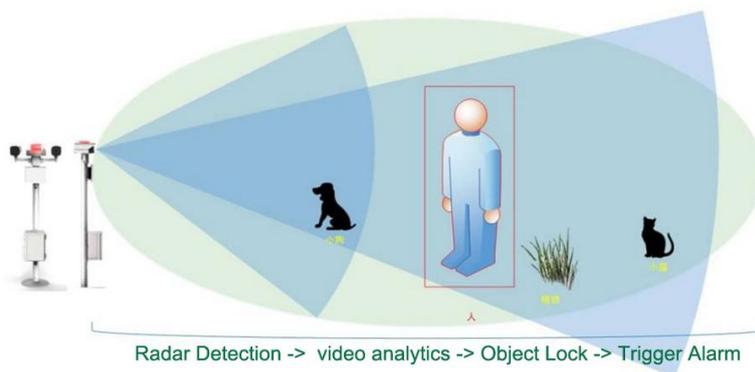
Safety, Effective, Stable.

Radar Surveillance

MP100W phase array radar

1. Product overview

Phase array radar for wide-area surveillance adopts transceiver integrated technique and LMFCW system with a compound structure of multiple antennas and wide angles. It uses 24GHz electromagnetic wave to scan the defense areas in real time in 90°, 180°, 270° and 360°. Based on the time-delay effect in range domain, the Doppler Effect in velocity field and other digital signal processing techniques, it could precisely output the distance, angle, velocity and moving direction of targets.



2. Product features

- Maximum tracking 32 target
- Output the distance, angle and velocity of moving targets
- Flexible Settings of detection area
- High anti-interference ability and adaptation to the environment.
- Universal network interface output

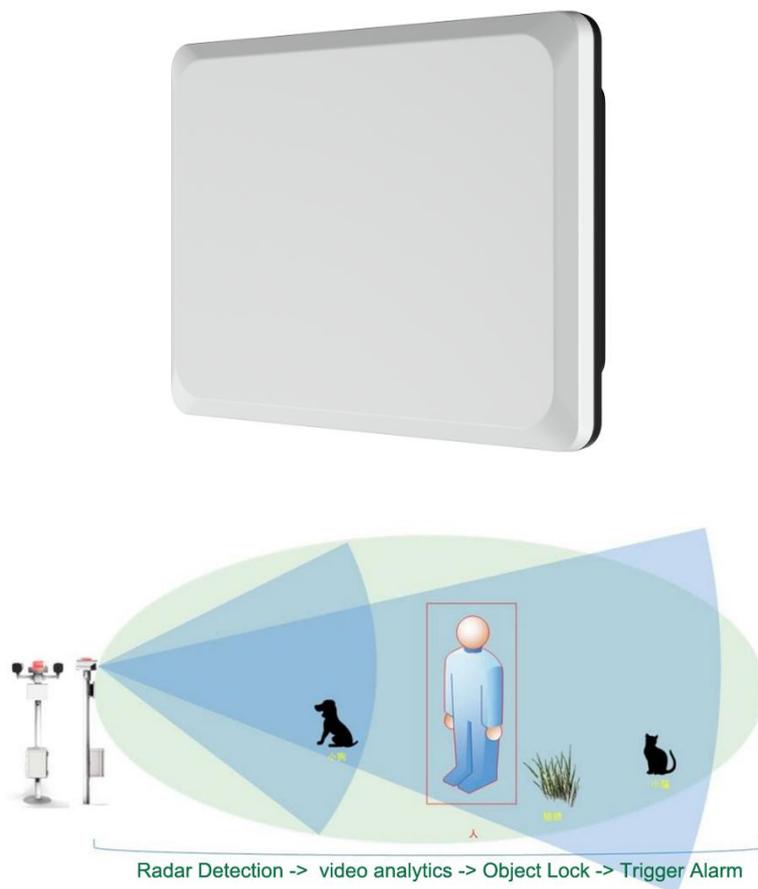
3. Technical Specifications

Model	MP100W
Radar architecture:	
Radar type	Millimeter wave phased array radar
Operating frequency	24.05~24.25GHz
Transmitted power	20dBm(EIRP31dBm)
Multiple radar networking:	RJ45
Detection modes	Doppler detection of moving targets, slowly crawling targets and fast-crossing targets
Detection performance:	
Target type:	Man/vehicle/animals
Positioning accuracy:	< 1m
Numbers of tracked targets simultaneously	32
Detection coverage	
Maximum detection range	≥100m(for man)
	≥160m(for vehicles)
Minimum detection range	1m
Beam width(on the horizontal)	100°
Beam width(on the vertical)	13°
Refresh rate for electronically scanning	8Hz
Installation height	1~3m
Radar characteristic:	
Modulation mode	FMCW
Angle accuracy	±1°
Maximum detection speed	≤15km/h(with continuous path) ≤120Km/h (detectable)
Work environment and the size:	
Dimension(L*W*H)	194mm*158mm*49mm
Working temperature:	-40~+85°
level of protection	IP66
Weight	1000g
Electrical characteristics:	
power supply mode	POE、DC
power consumption	12VDC、1A

MP300W phase array radar

1. Product overview

Phase array radar for wide-area surveillance adopts transceiver integrated technique and LMFCW system with a compound structure of multiple antennas and wide angles. It uses 24GHz electromagnetic wave to scan the defense areas in real time in 90°, 180°, 270° and 360°. Based on the time-delay effect in range domain, the Doppler Effect in velocity field and other digital signal processing techniques, it could precisely output the distance, angle, velocity and moving direction of targets



2. Product features

- Maximum tracking 32 target
- Output the distance, angle and velocity of moving targets
- Flexible Settings of detection area
- High anti-interference ability and adaptation to the environment。
- Universal network interface output

3. Technical Specifications

Model	MP300W
Radar architecture:	
Radar type	Millimeter wave phased array radar
Operating frequency	24.05~24.10GHz
Transmitted power	20dBm
Multiple radar networking:	RJ45
Detection modes	Doppler detection of moving targets, slowly crawling targets and fast-crossing targets
Detection performance	
Target type:	Man/vehicle/animals
Positioning accuracy:	< 1m
Numbers of tracked targets simultaneously	32
Detection coverage	
Maximum detection range	≥300m(for man)
	≥450m(for vehicles)
Minimum detection range	1m
Horizontal electro-scanning sector	90°
Vertical lobe	9°
Refresh rate for electronically scanning	8Hz
Installation height	1~3m
Radar characteristic:	
Modulation mode	FMCW
Angle accuracy	±1°
Maximum detection speed	≤15km/h(with continuous path) ≤120Km/h (detectable)
Work environment and the size:	
Dimension(L*W*H)	235mm*175mm*59mm
Working temperature:	-40~+85°
level of protection	IP66
Weight	1500g
Electrical characteristics:	
power supply mode	POE、 DC
power consumption	12VDC、 1.2A