



MIMO Wireless Solutions

PB24M24/58 VLRM24/58

Moog Videolarm Outdoor Wireless Solutions provide dual point-to-point / point-to-multi-point wireless surveillance flexibility in one package. An outdoor rugged Power Box, a MIMO (Multiple-Input-Multiple-Output) transmitter/receiver, and system setup software comprise the complete solution set. Utilizing revolutionary MIMO technology, Moog Videolarm wireless kits employ multiple signal paths to address the channel limitations and multi-path fading associated with earlier wireless technologies. The result: high-throughput, via a reliable and cost effective wireless solution.

Key Features

- Easy installation and setup
- Flexible deployment options
- Versatile camera platform featuring secondary Ethernet port with PoE output
- Pole mount hardware included
- Wireless transmitter/receiver for IP cameras
- 120° sectional antennae (provided with receiver)
- Supports up to 150+ Mbps real TCPI/IP
- 300+ subs per receiver
- Low latency



PB24M24

Rugged outdoor wireless box, with a 220/110Vac input and 24Vac output for camera, fuse protected with a wireless 2.4GHz MIMO transmitter. Directional antenna

PB24M58

Rugged outdoor wireless box, with a 220/110Vac input and 24Vac output for camera, fuse protected with a wireless 5.8GHz MIMO transmitter. Directional antenna

ACCESSORIES:

VLH24 & VLH58

Hop extends beyond direct point-to-point applications. Comes with mounting bracket and directional MIMO antenna

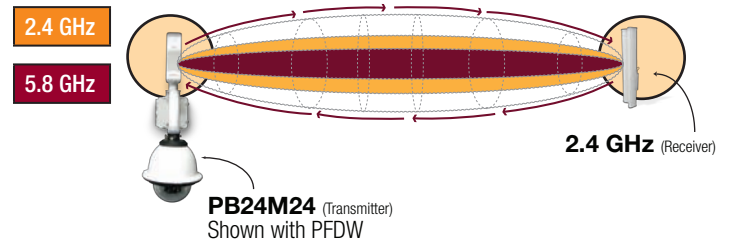
VLRM24

Wireless 2.4GHz MIMO access point, 110Vac input and 24V output

VLRM58

Wireless 5.8GHz MIMO access point, 110Vac input and 24V output

Consider the Line-of-Site (LOS) and the Fresnel Zone: The illustration below demonstrates the properties of 5.8GHz vs. 2.4GHz. Simply put, 5.8GHz is a tighter band meant for greater distances, while 2.4GHz is less constricted by LOS but typically covers shorter distances



SPECIFICATIONS:

2.4GHz / 5.8GHz (PB24M Transmitter) Physical / Electrical Environmental Specifications		
Size:	11.6" x 3.1" x 1.2"	(29.4 x 8 x 3cm)
Weight:	0.88 Lbs.	(0.4 Kg.)
Enclosure Characteristics:	Outdoor UV Stabilized plastic	
Mounting Kit:	Pole mounting kit included	
Max Power Consumption:	8 Watts	
Power Supply:	2.4GHz	24V, 0.5A surge protection integrated PoE adapter included
	5.8GHz	15V, 0.8A surge protection integrated PoE adapter included
Power Method:	Passive Power over Ethernet (pairs 4,5+; 7,8 return)	
Operating Temperature:	-30°C to 75°C	
Operating Humidity:	5 to 95% Condensing	
Shock and Vibration:	ETSI300-019-1.4	
(PB24M) Transmitter	2.4GHz	5.8GHz
Frequency Range:	2.32-2.55 GHz	4.9-5.9 GHz
Gain:	10.4-11.2 dBi	14.6-16.1dBi
Polarization:	Dual Linear	Dual Linear
Cross-pol Isolation:	23dB minimum	22dB minimum
Max VSWR:	1.6:1	1.6:1
Hpol Beamwidth (6dB):	55°	43°
Vpol Beamwidth (6dB):	53°	41°
Elevation Beamwidth:	27°	15°
(PB24) Power Box		
Size:	8.75" x 7.5" x 3.81"	(222.3 x 190.5 x 96.8mm)
Weight:	10 Lbs.	(4.54 Kg.)
Construction Back Box:	Rugged cast aluminum	
Power Consumption:	1-Amp (120W) at 120Vac	
Power Input:	220/110Vac	
Power Output:	24Vac/96VA	
Operating Temperature:	-40°F to 122°F	(-40°C to 50°C)

2.4GHz / 5.8GHz (VLRM) Physical / Electrical Environmental Specifications		
Size:	6.3" x 3.1" x 1.1"	(16 x 8 x 3cm)
Weight:	1.1 Lbs.	(0.5 Kg.)
RF Connector:	2x RPSMA (Waterproof)	
Enclosure Characteristics:	Outdoor UV Stabilized plastic	
Mounting Kit:	Pole mounting kit included	
Max Power Consumption:	2.4GHz	6.5 Watts
	5.8GHz	8 Watts
Power Supply:	24V, .5A PoE supply included	
Power Method:	Passive Power over Ethernet (pairs 4,5+; 7,8 return)	
Operating Temperature:	-30°C to 75°C	
Operating Humidity:	5 to 95% Condensing	
Shock and Vibration:	ETSI300-019-1.4	
(VLRM) Receiver	2.4GHz	5.8GHz
Frequency Range:	2.3-2.7GHz	5.10-5.90GHz
Gain:	15.0-16.0	15.0-16.0dBi
Polarization:	Dual Linear	Dual Linear
Cross-pol Isolation:	28dB min.	22dB min.
Max VSWR:	1.5:1	1.5:1
Hpol Beamwidth (6dB):	123°	137°
Vpol Beamwidth (6dB):	118°	118°
Elevation Beamwidth:	9°	8°
Electrical Downtilt:	4°	4°
ETSI Specification:	EN 302 326 DN2	EN 302 326 DN2
Dimensions:	27.6" x 5.7" x 3.7	14.4" x 2.5" x 1.6"
	(700 x 145 x 93mm)	(367 x 63 x 41mm)
Weight:	8.8 Lbs. (4.0 Kg.)	2.4 Lbs. (1.1 Kg.)
Windloading:	160 mph	120 mph