LUCEOR

StartMesh Plus

StartMesh Plus is a powerful outdoor industrial WiMesh router for professional CCTV applications. It delivers long distance transmission and high-performance communication with up to 500 Mbps throughput to enable data, voice and video applications. Equipped with four Ethernet ports, three of which support IEEE 802.3af/at, StartMesh Plus provides the possibility to connect directly three CCTV cameras. StartMesh Plus can be rapidly deployed thanks to its high-gain integrated antenna and pointing LEDs.

WIMESH   **BUILT-IN ANTENNA**   **OUTDOOR RATED**

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KEY FEATURES

2x2 MIMO 5GHz 802.11a/b/g/n/ac radio transceiver

Built-in 20dBi 2x2 dual-slant polarization directional antenna

Useful Throughput up to 500Mbps

4 x 10/100 Mbps Ethernet, three of which support IEEE 802.3af/at

MeshTool Suite software and web interface operate in tandem to configure, troubleshoot, and monitor the network architecture

Plug-and-Play installation

Outdoor rated: IP67, -40°C to +70°C temperature range

3D VIEWS

HARDWARE SPECIFICATIONS

CPU	Quad-core CPU ARM Cortex A7 up to 717MHz, 128 MB Nand Flash, 32MB Nor Flash and DDR3L 256 MB		
WLAN	Physical Layer	Complies with IEEE 802.11a/b/g/n/ac, supports 2x2 MIMO and provides a maximum rate of 866Mbps	
	Frequency[1]	U-NII-1: 5180 – 5250 MHz U-NII-2A: 5250 – 5330 MHz U-NII-2C: 5470 – 5725 MHz U-NII-3: 5725 – 5825 MHz	
	Modulation	OFDM : BPSK, QPSK, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM	
	Max. EIRP[2,3]	47 dBm	
	RX Sensitivity[4]	nHT20	-96 dBm @ 6 Mb/s	-80 dBm @ 54 Mb/s
		HT20	-93 dBm @ MCS8	-76 dBm @ MCS15

		HT40	-90 dBm @ MCS8	-73 dBm @ MCS15
		VHT20	-93 dBm @ MCS0	-71 dBm @ MCS8
		VHT40	-90 dBm @ MCS0	-68 dBm @ MCS9
		VHT80	-88 dBm @ MCS0	-61 dBm @ MCS9
Integrated Antenna	Gain	20 dBi		
	Polarization	Slant X		
	Beamwidth	16°/16°		
Ethernet Interfaces	3x RJ45 output ports,10/100 Mbps Ethernet, auto MDI/MDIX, active POE 802.3af/at			
	1x RJ45 input port ,10/100 Mbps Ethernet, auto MDI/MDIX, passive POE			
LED Indicators	1 x RGB LED for RSSI and Alarm status			
Button	1x push button to restore factory settings and restart the device			
Power Supply	44~60 VDC Passive POE			
Power Consumption[5]	Max. 9 W			
Temperature	Operating temperature: -40°C to 70°C | -40°F to 176° F			
	Storage temperature: -45°C to 105°C | -49°F to 221° F			
Humidity	Operating Humidity : 5 to +95% (non-condensing)			
	Storage Humidity : 0 to +90% (non-condensing)			
Wind Resistance	250Km/h			
Dimensions	269.8 x 269.8 x 76.9 mm			
	10.62 x 10.62 x 3.03 in.			
Weight	1.8 Kg			
	3.97 lb.			
IP code	IP67			
Materials	ABS, PTFE			

[1]Channel, Frequency Channel, frequency and bandwidth options will vary based upon regional and local regulations
[2]Transmission power is governed by local regulations and varies by frequency
[3]EIRP Tolerance is ±2 dB
[4]RX sensitivity Tolerance is ±2 dB
[5]Power consumption depends on transceiver configuration

SOFTWARE SPECIFICATIONS

Networking	Compliance with 802.11s Mesh networking
	Compliance with IEEE 802.1q
	Proactive link-state routing protocol for Mesh networking
	SSID-based VLAN assignment
	Service set identifier (SSID) hiding
	Automatic and manual rate adjustment
	Automatic channel scanning and interference avoidance
	Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)

	Queue mapping and scheduling
	User-based bandwidth limiting
	Adaptive bandwidth management (automatic bandwidth adjustment based on the user quantity and radio environment)

STANDARDS AND CERTIFICATIONS

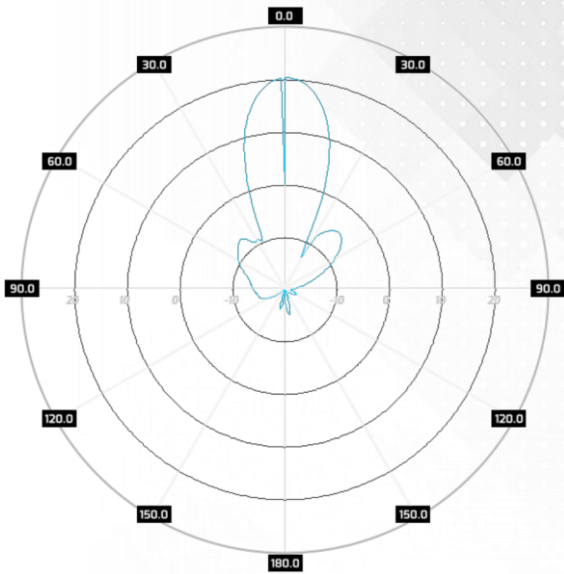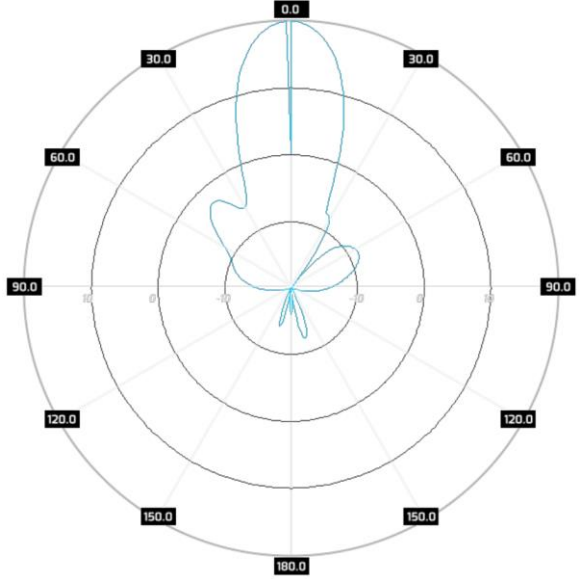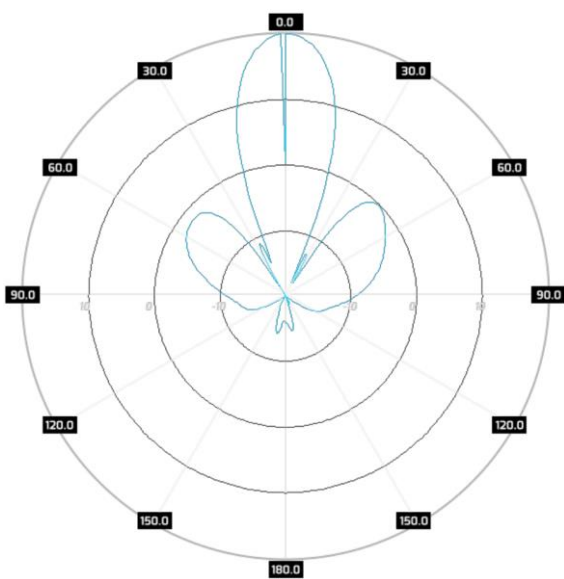|	
FCC	Part 15.C Part 15.E Part 15.247 Part 15.407 Part 1.1310 & 2.1091 Part 15.203 Part15.207 Part 15.205 Part 15.209
Environmental	IEC 60529 (IP67) RoHs compliance

ANTENNA PATTERNS

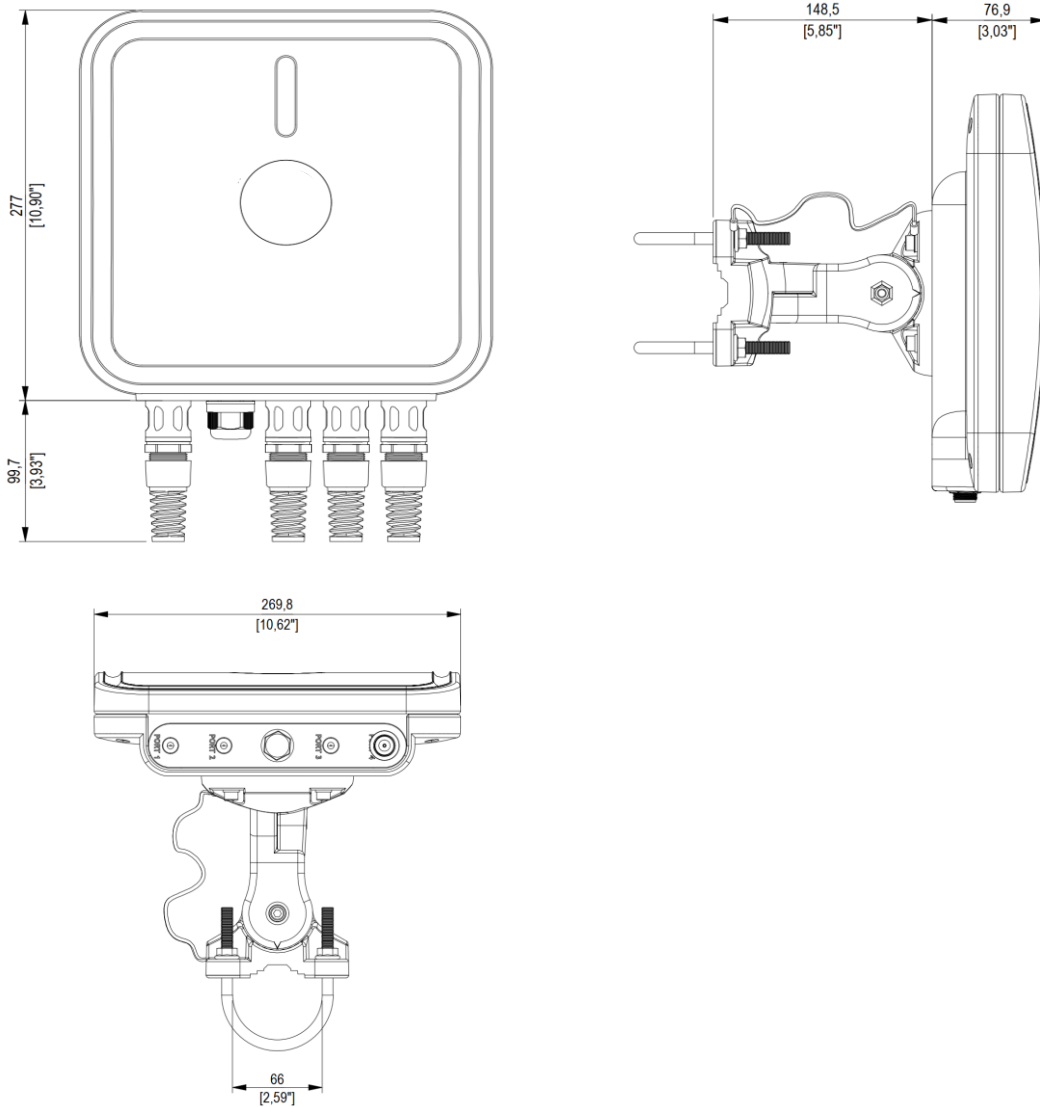**Port 1 Elevation**

Port 1 Azimuth

Port 2 Elevation

Port 2 Azimuth

DIMENSIONS

ORDERING INFORMATION

OWR-100AC-C-I20	StartMesh Plus with one radio transceiver 802.11a/b/g/n/ac, 2x2 MIMO, 5GHz, and one integrated antenna, 20dBi.
	AL-0011: 100-240VAC IN 0.8A Max 50/60HZ / 56V DC OUT 1A passive POE power supply