

SANRAY TECHNOLOGY CO., LIMITED

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UHF RFID Antenna

Model: A4212



Figure 1. Product Appearance — A4212

Applications

Highway management, access control, warehouse shelves, runways, intelligent personnel management, customs entry/exit, item tracking, and various sites and operating environments. Also suitable for terminals, parking lots, shopping malls, and toll stations.

Features

- Attractive appearance and good environmental adaptability
- Convenient and quick installation
- Accurate and fast reading speed with high data security
- Long read range
- Waterproof rating: IP67

Electrical Specifications

Parameter	Specification
Model	A4212
Frequency Range	865 – 928 MHz
Gain	12 dBi
Horizontal Beamwidth (H-Beamwidth)	55°
Vertical Beamwidth (V-Beamwidth)	50°
Polarization	Circular / Linear Polarization
Front-to-Back Ratio (F/B Ratio)	≥ 18 dB
VSWR	≤ 1.3 : 1
Impedance	50 Ω
Max. Power	100 W
Connector	Non-standard RF output port
Lightning Protection	DC Grounding

Mechanical Specifications

Parameter	Specification
Dimensions	445 × 445 × 35 mm
Weight	3.85 kg
Radome Color	Ivory white

Radome Material	ABS + UV
Rated Wind Velocity	120 km/h
Reflector Material	Aluminum (AL)
Operating Temperature	-20 °C to +80 °C
Protection Rating	IP67

Product Dimension Drawing (Annotated)

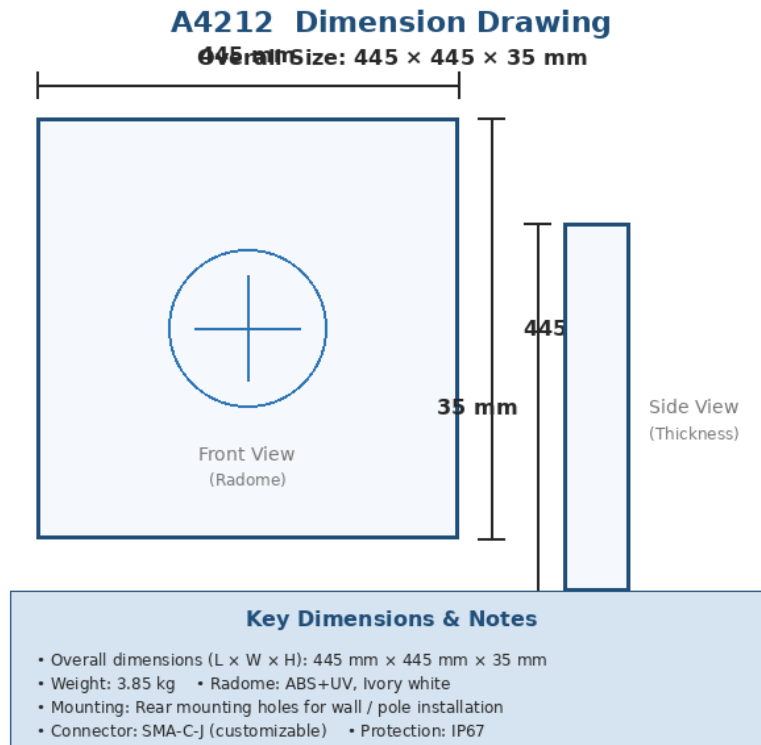
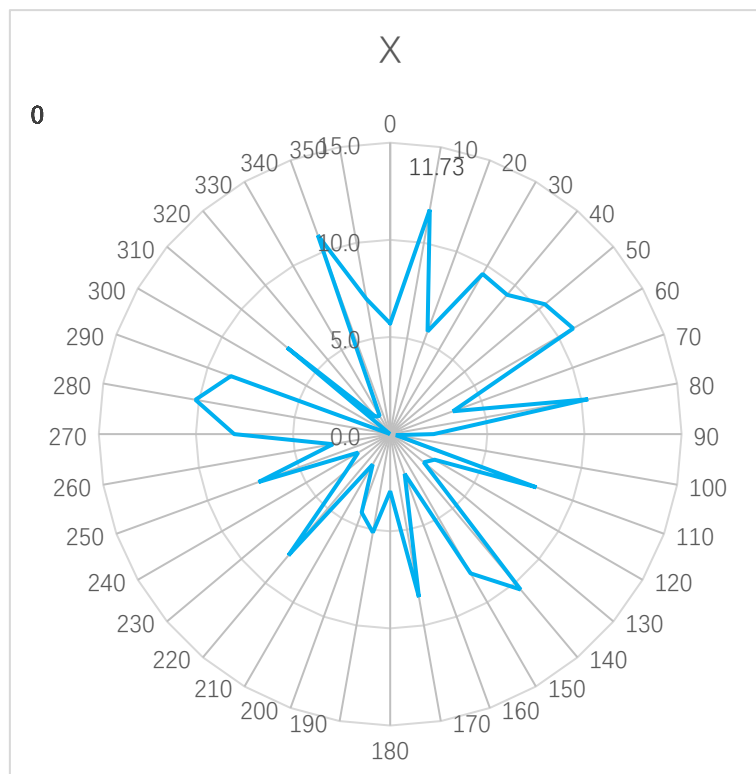
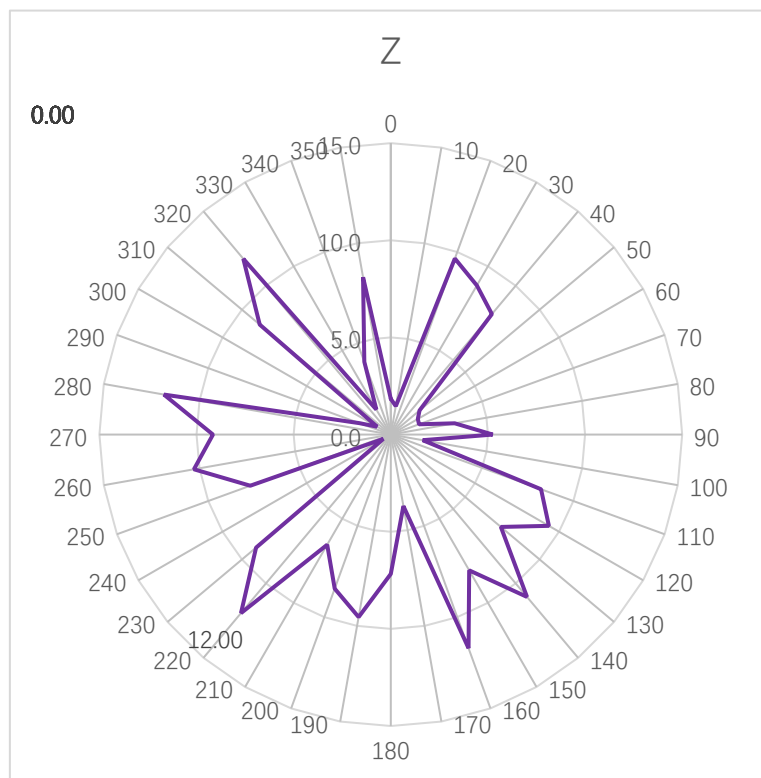
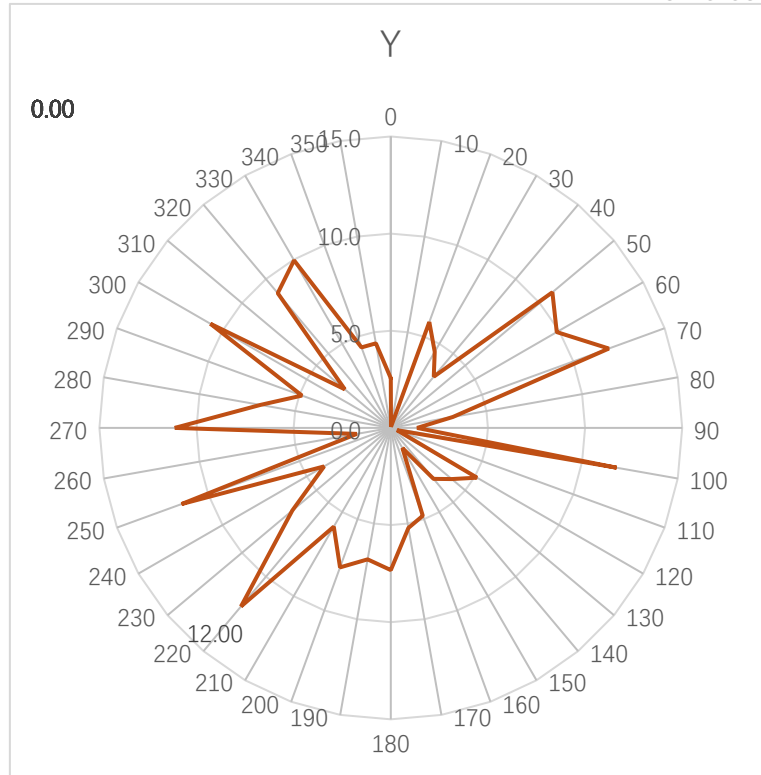


Figure 2. Annotated Dimension Drawing — Overall size 445 × 445 × 35 mm

Radiation Patterns





Installation Schematic



Figure 5. Installation Schematic (Wall / Pole Mount)

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Specifications are subject to change without notice. For the latest information, please contact us.