VISLINK

ANTENNA

AERO5 ANTENNA POD 8-WAY VERSION

The Aero 5G 8-Way is a high-density, compact 8-port external antenna array designed for fixed-wing and rotary-wing aircraft. It provides the essential RF interface for the Aero5 internal bonding transmitter, supporting up to 4 modems in a dedicated 2 x 2 MIMO configuration. The antenna is fully DO-160G approved, ensuring compliance with strict aviation safety and environmental standards.

Optimised for the Aero5's high-throughput video bonding.

- Frequency Range: 400 MHz – 6000 MHz (Global 5G/4G/LTE support)
- MIMO Architecture: 2x2 MIMO only (Dedicated pairs for 4 modems)
- Port Count: 8 x High-isolation ports
- Polarization: Vertical
- Gain: See Plots
- Isolation (Port-to-Port): > 28 dB (Critical for high-density modem bonding)

Mechanical & Installation

- Aero Profile: Low-profile pod design.
- Housing: High-impact, UV-stabilized Radome
- Connector Interface: 12 Way LEMO
- Weight: 1.55 kg
- Mounting: Meeker Mount

Typical Applications

Law Enforcement

Search & Rescue

Emergency Responders

FireFighting

Border Security

Defense Operations

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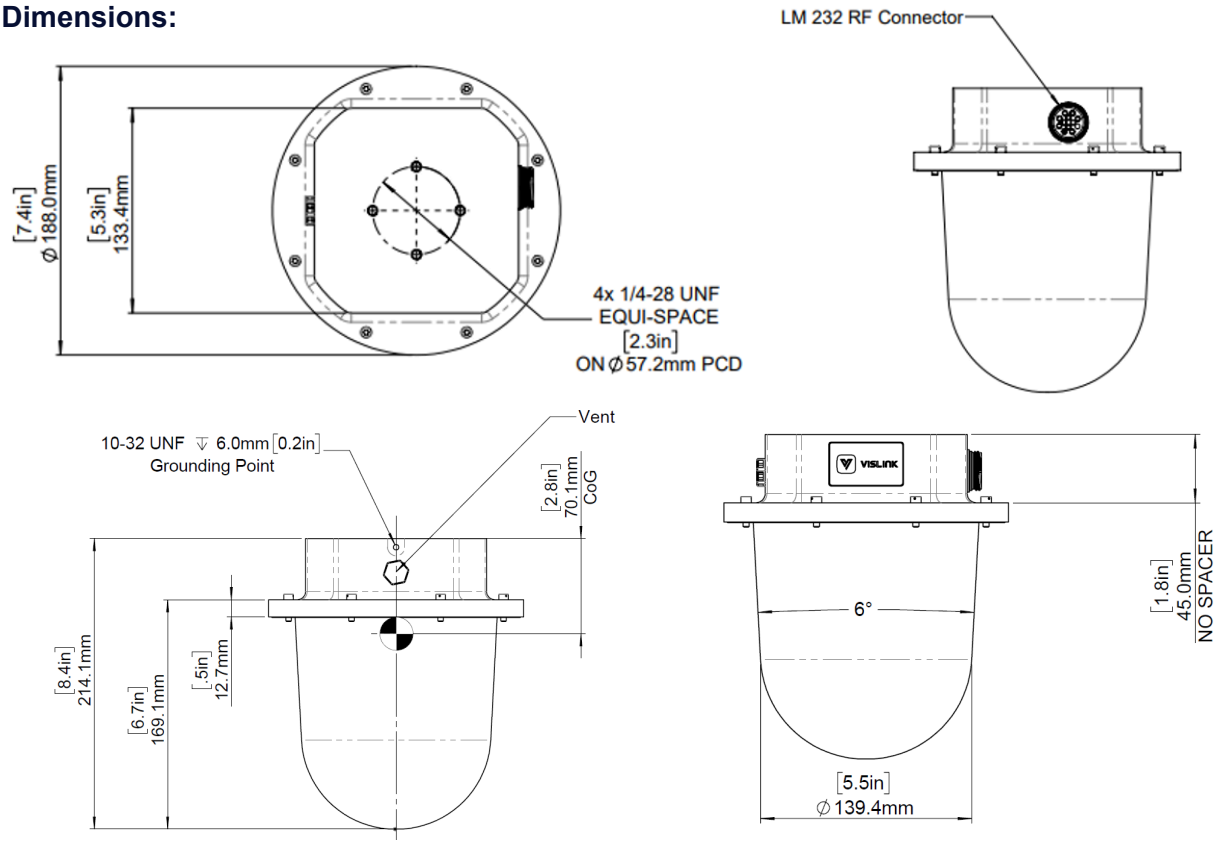
Aeronautical Certification (RTCA/DO-160G)

The antenna has been rigorously tested to meet the following categories, making it suitable for pressurized and non-pressurized installations.

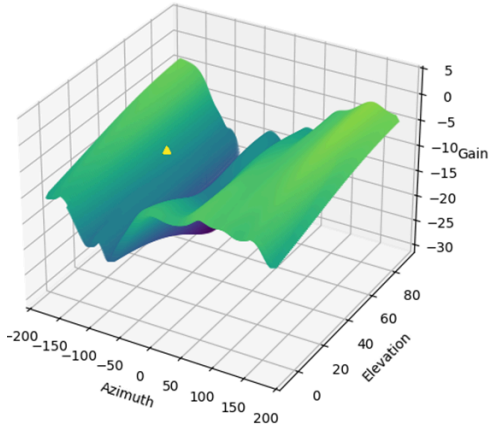
Section	Description	Category/Level
Section 4	Temperature and altitude	**Cat D2** (-55°C to +70°C; up to 50k ft)
Section 5	Temperature variation	**Cat B** (5°C per minute)
Section 6	Humidity	**Cat A** (Standard External)
Section 7	Operational shock / Crash safety	**Cat B** (20g Sustained)
Section 8	Vibration	**Cat S & U** (Fixed & Rotary Wing profiles)
Section 10	Waterproofness	**Cat R** (Driving Rain/Spray)
Section 11	Fluids Susceptibility	**Cat F**
Section 12	Sand and Dust	**Cat S** (Blowing Sand)
Section 14	Salt Fog / Spray	**Cat S** (Corrosion Resistant)
Section 22	Lighting Induced Transient Susceptibility	**Cat A1C1L1**
Section 23	Lighting Direct Effects	**Cat 2A** (Lightning Protected)
Section 24	Icing	**Cat A** (Externally Mounted)
Section 25	Electrostatic Discharge	**Cat A**
Section 26	Fire, Flammability	**Cat C**

Dimensions:

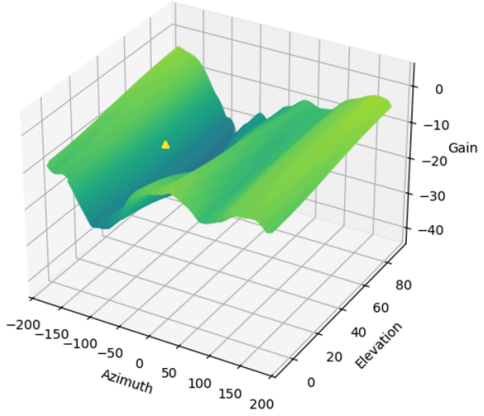


Certification Note:
This antenna must be installed by an FAA/EASA certified A&P mechanic to ensure the airframe's structural and lightning protection integrity remains within DO-160G compliance.

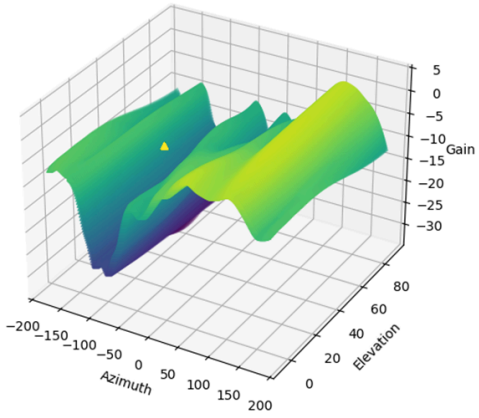
Antenna Radiation Pattern at 660 MHz



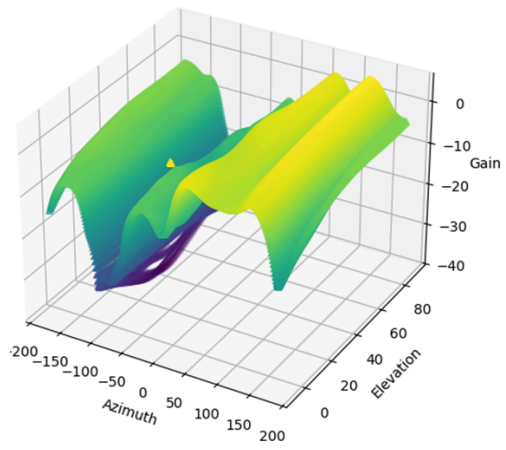
Antenna Radiation Patternat 850 MHz



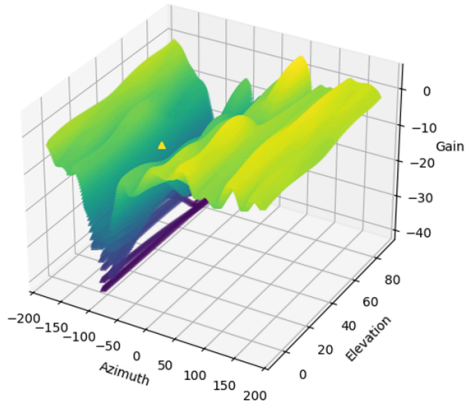
Antenna Radiation Patternat 1.9 GHz



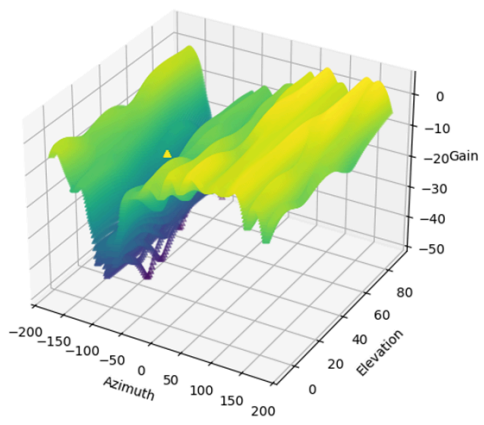
Antenna Radiation Pattern at 2.6 GHz



Antenna Radiation Pattern at 3.5 GHz



Antenna Radiation Pattern at 5.0 GHz



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