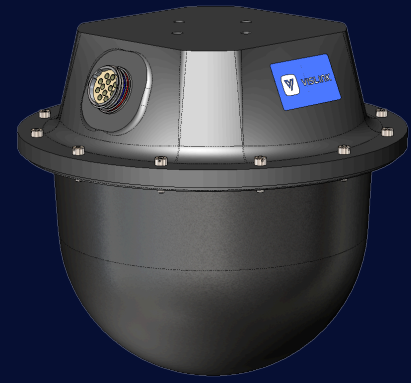




AERO5 ANTENNA POD 12-WAY VERSION



The Aero 5G 12-Way is a high-density, compact 12-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 6 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 6 modems)
- Port Count: 12 x High-isolation ports
- Polarization: Vertical
- Gain: See Plots
- Isolation (Port-to-Port): > 28 dB (Critical for high-density modem bonding)

Typical Applications

[Law Enforcement](#)

[Search & Rescue](#)

[Emergency Responders](#)

[FireFighting](#)

[Border Security](#)

[Defense Operations](#)

Mechanical & Installation

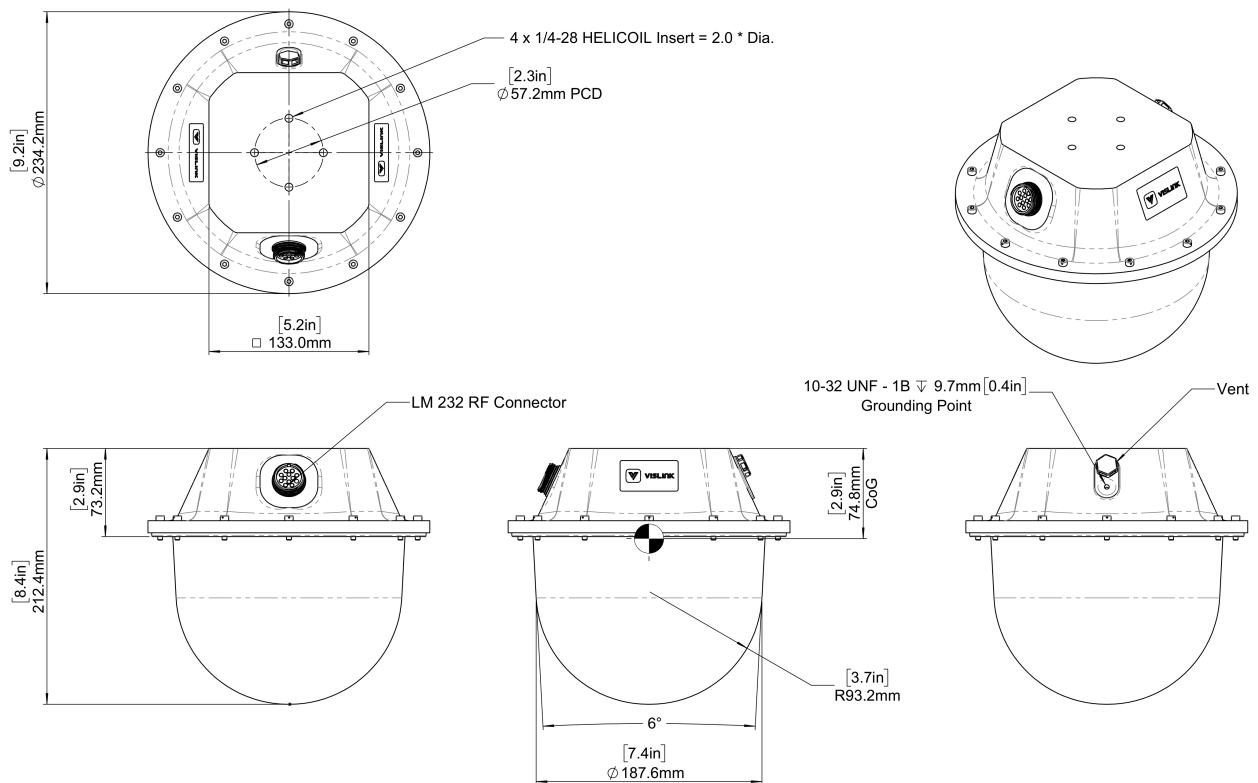
- Aero Profile: Low-profile pod design.
- Housing: High-impact, UV-stabilized Radome
- Connector Interface: 12 Way LEMO
- Weight: 2.35 kg
- Mounting: Meeker Mount

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 B2 (Non-pressurized; up to 25k ft)
Section 5	Temperature Variation	Cat A (10°C per minute)
Section 6	Humidity	Cat C (External Humidity Environment)
Section 7	Operational Shocks and Crash Safety	Cat E
Section 8	Vibration	Cat U2 (Rotary Wing, unknown frequency)
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 Spray	Cat T (Severe Salt Fog)
Section 22	Lightning Induced Transient Susceptibility	Cat A1C1L1
Section 23	Lightning Direct Effects	Cat 1C1C (Lightning Protected)
Section 24	Icing	Cat A (Externally Mounted)
Section 25	Electrostatic Discharge	Cat A
Section 26	Fire, Flammability	Cat C

Dimensions:

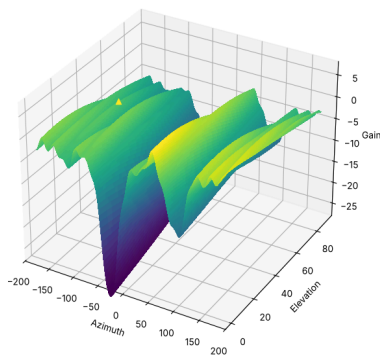


12 Way Antenna Peak Gain	
B1	1.50dBi
B3	0.48dBi
B8	-2.79dBi
B26	-2.79dBi
B28	-2.94dBi
B39	0.74dBi
B40	1.69dBi
B41	3.12dBi
B42	3.06dBi
B77	3.35dBi
B78	3.06dBi
B79	3.93dBi

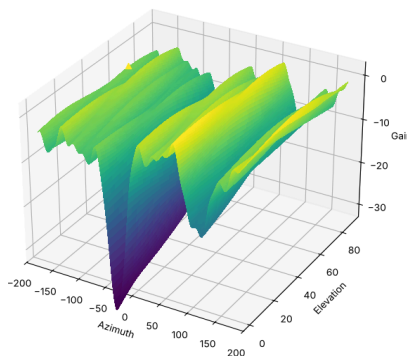
Certification Note:

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.

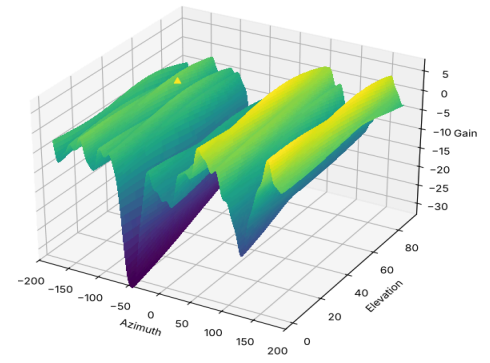
Antenna Radiation Pattern at 660 MHz



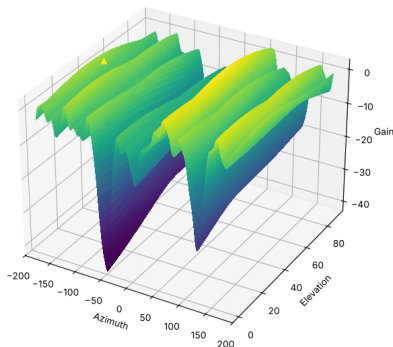
Antenna Radiation Pattern at 850 MHz



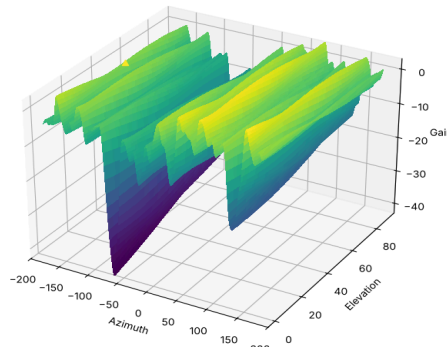
Antenna Radiation Pattern at 1.9 GHz



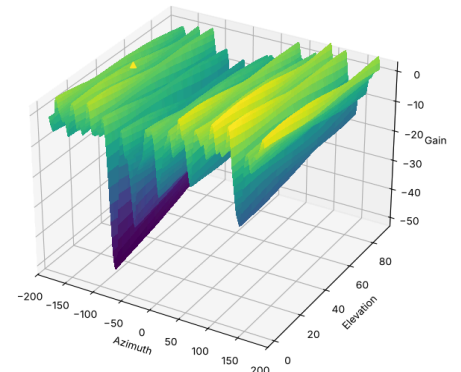
Antenna Radiation Pattern at 2.6 GHz



Antenna Radiation Pattern at 3.5 GHz



Antenna Radiation Pattern at 5.0 GHz



Note: Peak gain and radiation pattern figures may change with ongoing product development.

E: sales@vislink.com | T: +1 908 852 3700 / +44 1442 431300 | www.vislink.com

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RD002638 Rev 1.01