



USEN-Motion US Antenna Datasheet

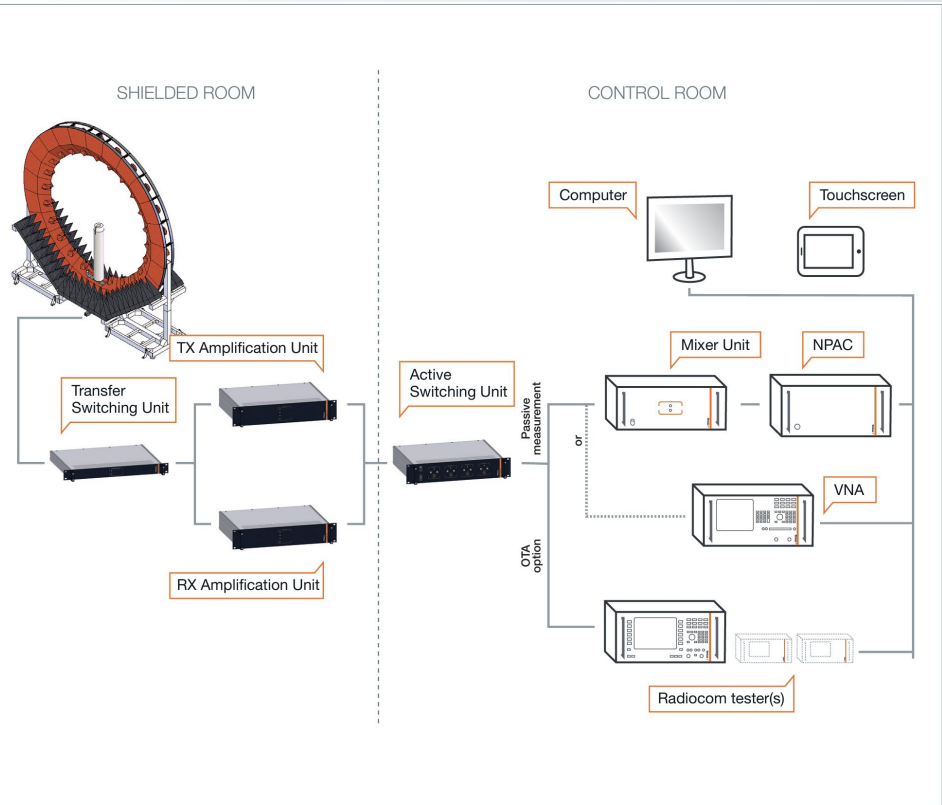
Outline



- AUT Environment
 - Instrument Information
 - Test Method
- Antenna Performance
 - LoRa Antenna
 - Antenna Location



AUT Environment



Calibration Record

- Full system calibration, including each instrument, will proceed once per year.

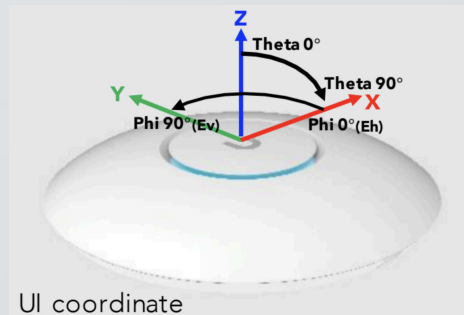
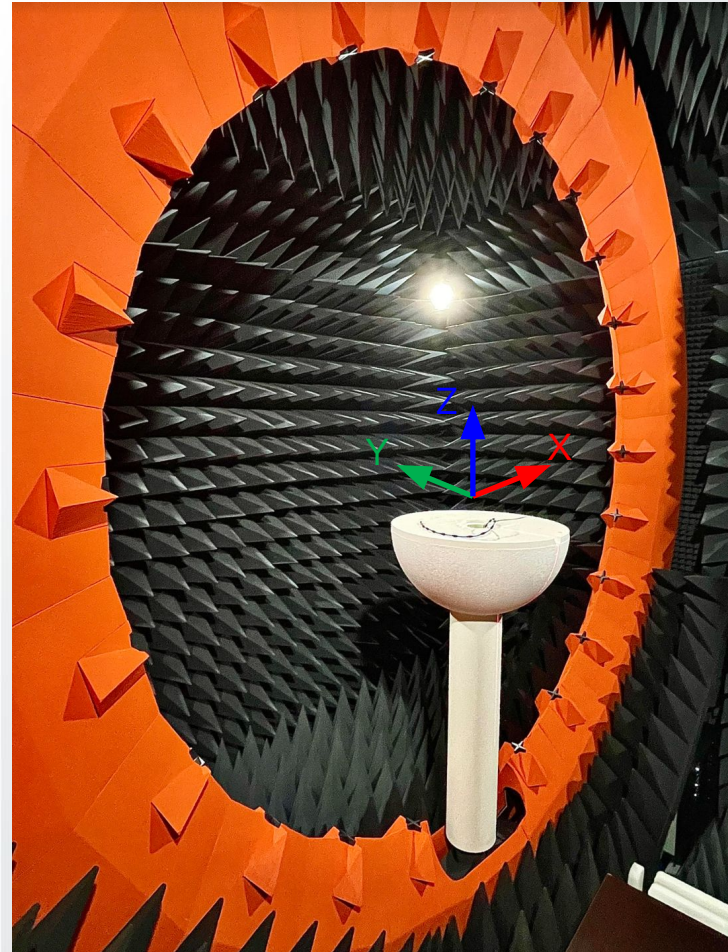
Instrument List	Model	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	Anritsu MT8821	2024/11/13	2025/11/12
Full System	SG24-Standard	2024/11/13	2025/11/12



Test Method

Measurement Standard

- To fix DUT on the turntable and positioning the height level in the center of arch.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5° / Theta increment 5° .
- Finished 3D data collection along with Theta- $175^\circ \sim \text{Theta} 175^\circ$ and Phi $0^\circ \sim \text{Phi} 180^\circ$
- Frequency resolution setup depends on the different bands.



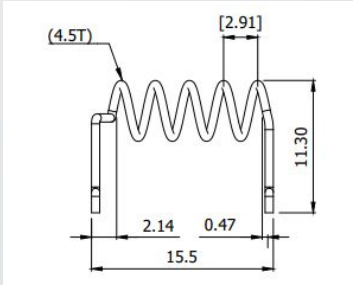
UI coordinate

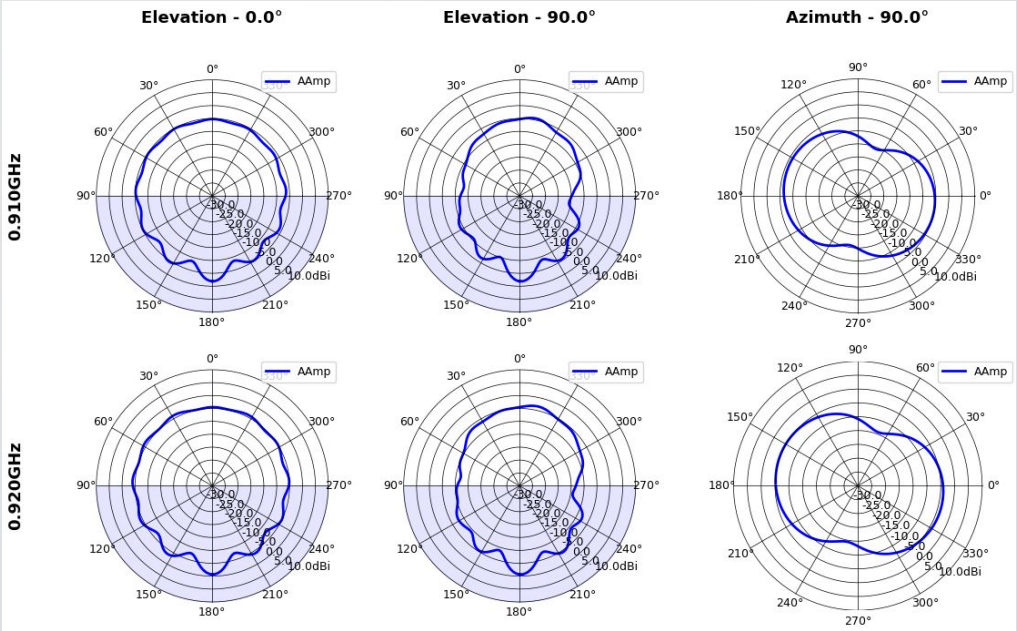


Antenna Performance

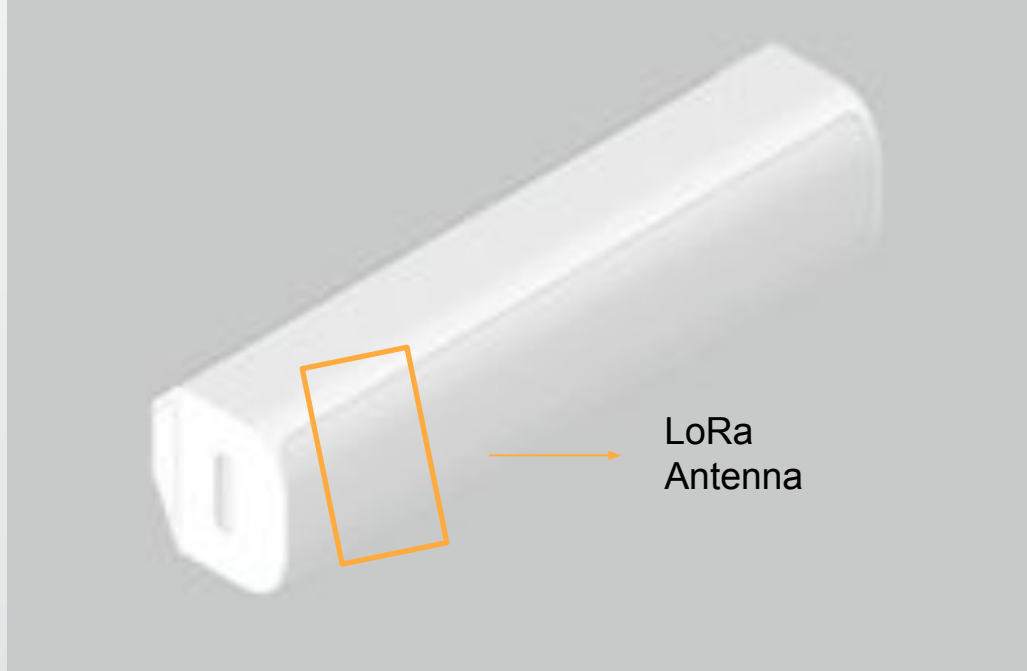
[USEN-Motion US] Antenna Report



Working frequency	902MHz – 928 MHz
Antenna type	Helix
Gain	1 dBi
Model	117-06158
Connector	NA
Drawing	



[USEN-Motion US] Antenna Location





Manufacturer: Ubiquiti Inc.
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