

α ALPHA ANTENNA®

Model – MilCom MOTO Antenna

Operating Manual, Version 1.3, July 17, 2025


Overview

The Alpha MilCom MOTO is a mobile antenna that operates on a wide range of VHF and higher frequencies.

Operation

The Alpha MilCom MOTO antenna uses a Magnetic Mount to easily establish proper vertical polarization for use with mobile to mobile/base or repeaters for high efficiency and uninterrupted range.

Antenna Specifications

Power: 80 Watts	
RF Connection: PL-259	
Impedance: 50 OHMs	
Connector: PL-259	
Diameter: 0.433 inches	
Length: 18.75 inches	
Gain/Minimum VSWR on Amateur Radio Frequencies: 2.1dBi/1.22:1 (144MHz), 4.6dBi/1.86:1 (430MHz), 5.5dBi/1.04:1 (900MHz)	
Other Frequencies: 125-190 MHz & 366.437-1016.437 MHz	

Placement

Proper placement will ensure the Antenna Specifications are met. Placement should be in the center of the highest mental surface that is flat on your vehicle.

Support Contacts

If you have questions about your antenna, please feel free to email us at alphaantenna@gmail.com