

LT-ANTMU-430-450-3

UHF Mobile Communication Antenna | 430-450 MHz | 3 dBi

The Lamatel LT-ANTMU-430-450-3 is a high-performance UHF mobile communication antenna designed for reliable and consistent signal transmission in the 430-450 MHz frequency range. Engineered for mission-critical communications, this antenna delivers a gain of 3 dBi, enhancing signal strength and coverage for mobile units such as vehicles and field equipment. Its robust construction ensures durability in demanding environments, making it ideal for use in public safety, emergency response, fleet operations, and other professional mobile radio applications.

Key Features :

- 430-450 MHz tuned frequency
- 3 dBi gain for stronger signal
- Rugged and weather-resistant
- Compact and easy to install
- Clear, stable performance
- Broad compatibility with radios
- Low VSWR for minimal loss

Key Highlights :

- Omnidirectional pattern for 360° coverage
- Ideal for mobile units like patrol vehicles and service fleets
- Corrosion-resistant materials for long-term durability
- Flexible mounting options for various vehicle types
- Lightweight design reduces load impact
- Engineered for high-speed mobility without signal drop
- Low maintenance and easy to clean

Applications :

- Public safety and emergency vehicles
- Fleet and logistics operations
- Utility and construction sites
- Military and defense vehicles
- Disaster response teams
- Private security patrols



Specifications :

LT-ANTMU-430-450-3	
Frequency Range	430-450 MHz
Antenna Gain	3 dBi
Power Rating	160 W
Bandwidth	20 MHz
VSWR	≤ 1.5
Termination	NMO
Length	372 mm
Impedance	50 Ω
Wave	1/2 wave



Installation Guide

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Preparation Before Installation :

Assemble the antenna per the diagram attached. To obtain the lowest VSWR (standing wave ratio), the antenna must be cut to the specific frequency of operation (see cutting chart). The stainless material used in the antenna is very strong and requires special tool for cutting. We suggest, "Scoring" the stainless whip to a 75% depth and using two plier to snap off the unused portion. Use care to avoid any accident, wear protective PPE gear while tuning the antenna to the frequency needed. File down any "burrs" on the cut off portion. The coil assembly is factory tuned and sealed, no adjustment to the coil is necessary.

Installation :

For ground plane dependent antenna, the center of the vehicular roof is the best location for your mobile antenna installation. Satisfactory results are obtained on the fender or trunk deck. When mounting any antenna, especially a low band antenna, carefully choose the mounting location to provide an adequate ground plane and free space for the radiator. If the radiator's position is too close to the metal side of the vehicle, low VSWR may be compromised.

This series require an "NMO" type of mount and can be complemented with LT-NMO-BNC-18FT NMO 3/4" zinc plated mount from Lamatel.

Note: Note: always use protective eyeglasses when cutting or filing metal rods.

LT-ANTMU-430-450-3	
Frequency	Length
430 MHz	322 mm
435 MHz	312 mm
440 MHz	300 mm
445 MHz	295 mm
450 MHz	286 mm

