



PATENTED WHIPLESS PHANTOM® UHF ANTENNA'S FEATURE TRUE FIELD DIVERSITY DESIGN

Laird Technologies' unique patented Phantom® is a tough antenna for outdoor or indoor applications. Measuring only 3.5" tall, the Phantom® UHF antenna's revolutionary design features field diversity with both vertical and horizontal polarization components. This gives the antenna diversity, frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications.

The industry standard NMO mounting socket mates with all Laird Technologies' magnetic, trunk lid, and hole mounts. A threaded permanent stud mount model is also available for vandal resistant mounting on brackets, panels, ceilings or any other kind of housing.

The Phantom® patented technology is beneficial when high performance is desired and extreme ruggedness and low profile is required.

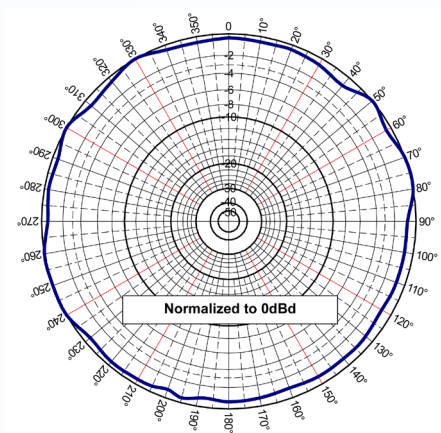
FEATURES

- The antenna is available in both custom tune and field tunable options
- True field diversity design ensures uninterrupted transmissions in urban canyons and rural drop off areas
- Phantom out performs a 3 dB whip in many applications
- U.S. Patent Nos. 5,977,931 - 6,292,156 and 7,209,096

MARKETS

- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications

ANTENNA PATTERNS



Azimuthal Pattern (Y, Z, or E-plane)

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SPECIFICATIONS

ELECTRICAL	
Frequency Range	210-225 MHz
Frequency Bandwidth	2.2 MHz @VSWR < 2.0:1
VSWR	< 2.0:1
Return Loss	-10 dB min
Nominal Gain	Unity 3 dB-MEG (elevation = 0°) 5 dBi (elevation = 45°) -11 dBi (elevation = 90°)
Maximum Power	60W
Nominal Impedance	50Ω
Polarization	Vertically polarized
Pattern	Omnidirectional
Azimuthal Angle Coverage	360°
Lightning Protection	AC Ground
Cable	None
Termination	NMO
Tuning	Adhesive Tuning Disk

MECHANICAL	
Size	Width = 3 – 1/4" Height = 3 – 1/2"
Weight	0.25 lbs
Finish	GE X-17 ABS
Color	White (Black also available)

MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION	TUNING OPTIONS
TRA2100	210-225 MHz VHF Phantom ¾ NMO, White	Custom tune
TRAB2100	210-225 MHz VHF Phantom ¾ NMO, Black	Custom tune
TRAT2100	210-225 MHz VHF Phantom ¾ NMO, White	Field tunable
TRABT2100	210-225 MHz VHF Phantom ¾ NMO, Black	Field tunable

Mounting Designed To:

4' x 4' metallic ground plane mobile applications

ANT-DS-TRABT2100-0710

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