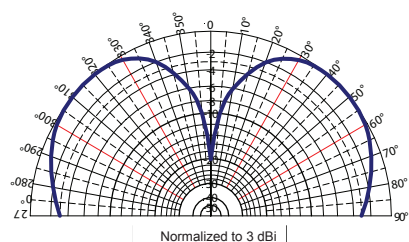
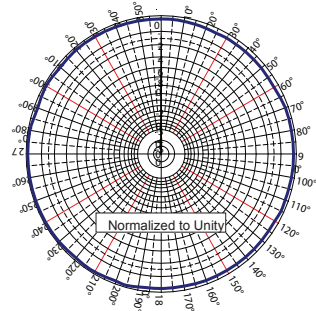




### ANTENNA PATTERNS



Elevation Pattern (Y, Z, or H-plane)



Azimuth Pattern (X, Y, or E-plane)

## PHANTOM ELITE® UHF ANTENNA COMBINES PERFORMANCE WITH LOW-PROFILE DESIGN

Laird's unique patented Phantom Elite® is a tough low-profile antenna for outdoor or indoor applications. Measuring only 3.4" tall, the Phantom Elite® 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 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.

### FEATURES

- Performance engineered design ensures uninterrupted transmissions in challenging coverage areas.
- Phantom® outperforms a 3dB 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

### SPECIFICATIONS

ELECTRICAL		MECHANICAL	
VSWR	< 2:1	Color	Black or White
Nominal Gain	3 dBi	Height (initially)	3½"
Maximum Power	100 W	Diameter	1.438"
Nominal Impedance	50 Ω	Weight	0.15 lb
Polarization	Vertical	Material	ABS
Pattern	Omnidirectional	Mounting Information	NMO or Permanent Mountable
Half-Power Beamwidth (Elevation° x Azimuth°)	146° x 360°		BlackHawk NS1535
Coaxial Cable Length & Type	None	Noise Suppressor	1-35 VOLT, 15 Amp Noise Suppressor (Sold Separately)
Terminations	NMO Socket or, type N-female		

### MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION
ETRA4103	410-430 MHz 3 dBi Phantom Elite® ¾ NMO, White Radome
ETRA4103	410-430 MHz 3 dBi Phantom Elite® ¾ NMO, Black Radome
ETRA4303	430-450 MHz 3 dBi Phantom Elite® ¾ NMO, White Radome
ETRA4303	430-450 MHz 3 dBi Phantom Elite® ¾ NMO, Black Radome
ETRA4503	450-470 MHz 3 dBi Phantom Elite® ¾ NMO, White Radome
ETRA4503	450-470 MHz 3 dBi Phantom Elite® ¾ NMO, Black Radome
ETRA4703	470-490 MHz 3 dBi Phantom Elite® ¾ NMO, White Radome
ETRA4703	470-490 MHz 3 dBi Phantom Elite® ¾ NMO, Black Radome
ETRA4903	490-512 MHz 3 dBi Phantom Elite® ¾ NMO, White Radome
ETRA4903	490-512 MHz 3 dBi Phantom Elite® ¾ NMO, Black Radome
Sealtube3	Heat shrink tubing 3"x1"DIA Elite install (use for jaw protector on installation wrench)

Permanent Mounting Option: Please order by antenna model and insert letter "P" to indicate permanent mounting option (ETRA4503P).

Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.



### ANT-DS-PHANTOM ELITE UHF 0717

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