



# PHANTOM TECHNOLOGY ANTENNA 142-160 MHZ

**TRAT1420** 

## PHANTOM TECHNOLOGY ANTENNA TRAT1420 142-160 MHz

The unique patented Phantom® is a tough antenna for outdoor or indoor applications. Measuring only 3.5" tall, this mechanically robust design has a low angle radiation pattern that is superior to traditional gain antennas in most applications and can therefore be used in both ceiling mount and surface mount installations.

The industry standard NMO mounting socket mates with our magnetic, Trunk lids, and hole mounts. The Phantom® patented technology is beneficial when high performance, a low profile and extreme ruggedness are desired.

## **FEATURES**

- Mechanically robust for both Indoor/Outdoor applications
- Phantom out-performs a 3 dBi whip in many applications
- Compact/Low Profile VHF Antenna

## **MARKETS**

- · Public Safety
- Transportation
- Unity
- Military Mobile
- Fixed Radio Applications

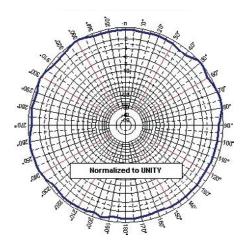
## **SPECIFICATIONS**

ELECTRICAL	PERFORMANCE
Frequency Range	142-160 MHz, Field Tunable
Frequency Bandwidth	2.0 MHz
VSWR	<2.0:1
Return Loss	-10 dB min
Nominal Gain	Unity -11 dBi (elevation - 90°)
Maximum Power	60 W
Nominal Impedance	50Ω
Polarization	Vertically Polarized
Pattern	Omnidirectional
Vertical Beamwidth	80°
Lightning Protection	AC Ground
Cable	None
Termination	NMO
Tuning	Tunable Coil with Turning Key Provided

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

MOUNTING	
Designed to	4'x4' metallic ground plane Mobile applications

### **ANTENNA RADIATION PATTERN**



## **Representative Azimuth Field Pattern**

#### TE TECHNICAL SUPPORT CENTER

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