

THE NEW HIGH GAIN

VOYAGER™

A classic design updated for the 21st century. The New High Gain Voyager™ antenna comes complete with patent pending internal matching network, gold anodization, plated brass N connector and is easily field tunable. All models are UPS shippable!

Model	Frequency	Gain	User	<\$300	\$300- \$1000	>\$1000
LOWBAND 2dBi GAIN MODELS						
VG262	26-30 MHz	2dBi	237.50	114.00	109.25	104.50
VG302	30-34 MHz	2dBi	237.50	114.00	109.25	104.50
VG342	34-40 MHz	2dBi	237.50	114.00	109.25	104.50
VG402	40-47 MHz	2dBi	237.50	114.00	109.25	104.50
VG472	47-54 MHz	2dBi	237.50	114.00	109.25	104.50

VHF 2dBi GAIN MODELS						
VG1322	132-150 MHz	2dBi	88.54	42.50	40.73	38.96
VG1502	150-174 MHz	2dBi	88.54	42.50	40.73	38.96
VG2002	200-225 MHz	2dBi	88.54	42.50	40.73	38.96
VG2202	220-250 MHz	2dBi	88.54	42.50	40.73	38.96

VHF 5dBi GAIN MODELS						
VG1325	132-150 MHz	5dBi	122.92	59.00	56.54	54.08
VG1505	150-174 MHz	5dBi	122.92	59.00	56.54	54.08
VG2005	200-225 MHz	5dBi	122.92	59.00	56.54	54.08
VG2205	220-250 MHz	5dBi	122.92	59.00	56.54	54.08

VHF 6dBi GAIN MODELS						
VG1326	132-150 MHz	6dBi	191.65	92.00	88.16	84.33
VG1506	150-174 MHz	6dBi	191.65	92.00	88.16	84.33
VG2006	200-225 MHz	6dBi	191.65	92.00	88.16	84.33
VG2206	220-250 MHz	6dBi	191.65	92.00	88.16	84.33

UHF 2dBi GAIN MODELS						
VG4062	406-450 MHz	2dBi	71.88	34.50	33.06	31.63
VG4502	450-512 MHz	2dBi	71.88	34.50	33.06	31.63

UHF 5dBi GAIN MODELS						
VG4065	406-450 MHz	5dBi	94.79	45.50	43.60	41.71
VG4505	450-512 MHz	5dBi	94.79	45.50	43.60	41.71

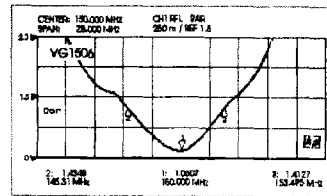
UHF 6dBi GAIN MODELS						
VG4066	406-450 MHz	6dBi	175.97	84.47	80.95	77.43
VG4506	450-512 MHz	6dBi	175.97	84.47	80.95	77.43

All models are UPS shippable! Note: To convert dBi to dBd subtract 2

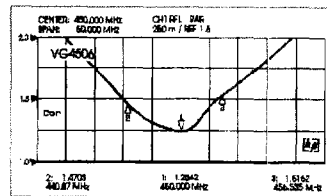
Technical Data

- **Max Power:** 250 watts
- **Termination:** N female
- **Lightning Protection:** DC Ground
- **Finish:** Gold Anodized
- **Radiator Material:** 6061-T6 Aluminum Tube
- **Wind Survival:** 100 MPH
- **Length:** VG472 240" - typical extended (other models will vary)
VHF 2dBi: 55" - typical extended
VHF 5dBi: 102" - typical extended
UHF 2dBi: 25" - typical extended
UHF 5dBi: 35" - typical extended
- **Vertical Beamwidth:** 2dBi: 70°
5dBi: 35°
- **Mounting:** Optional FM1 or the FM2 Heavy Duty Mounting Kit VM190 - for the Lowband
- **Bandwidth @ 1.5:1 VSWR:** 2dBi: 5% of center frequency
5dBi: 2.5% of center frequency
- **Bandwidth @ 2.0:1 VSWR:** 2dBi: 10% of center frequency
5dBi: 5% of center frequency
- **Weight:** Lowband: 15 lbs.
VHF 2dBi: 1.2 lbs.
VHF 5dBi: 2.5 lbs.
UHF 2dBi: 0.6 lbs.
UHF 5dBi: 1.5 lbs.
- **Equivalent Flat Plate Area:** VHF 2dBi: 36 in²
VHF 5dBi: 72 in²
UHF 2dBi: 15 in²
UHF 5dBi: 22 in²
- **Windthrust @ 100 MPH & 0°F:** VHF 2dBi: 4.5 lbs.
VHF 5dBi: 11.6 lbs.
UHF 2dBi: 2.5 lbs.
UHF 5dBi: 4 lbs.

VSWR

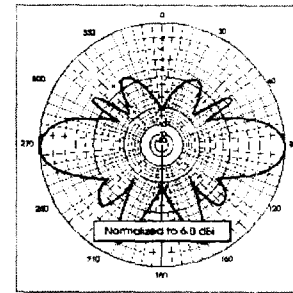


VG1506

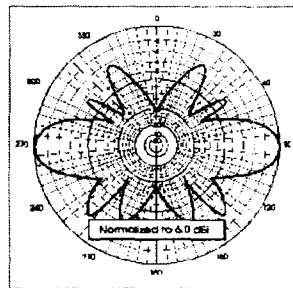


VG4506

Vertical Field Patterns



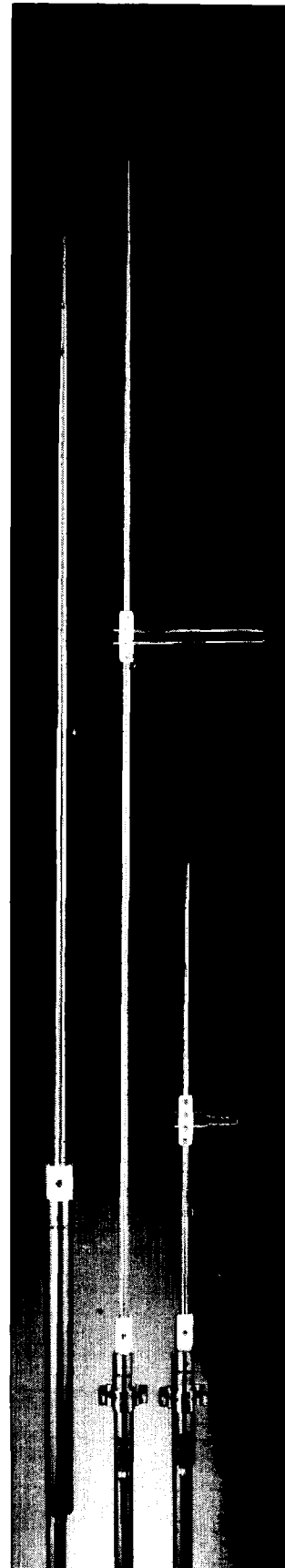
VG1506



VG4506



VG4506



VG262, VG1502, VG4505

Patents Pending Worldwide
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THE PHANTOM™

A Tough Antenna for High Risk Exterior or Interior Applications.

Model	Frequency Range	User	<\$300	\$300- \$1000	>\$1000
3/4 HOLE MOUNT VERSIONS					
UHF MODELS					
TRA4300	430-450 MHz	23.93	11.49	11.00	10.53
TRA4500	450-470 MHz	23.93	11.49	11.00	10.53
TRA4700	470-490 MHz	23.93	11.49	11.00	10.53

800/2400 MHZ MODELS

TRA8060	806-866 MHz	23.93	11.49	11.00	10.53
TRA8210	821-896 MHz	23.93	11.49	11.00	10.53
TRA8900	890-960 MHz	23.93	11.49	11.00	10.53
TRA9020	902-928 MHz	23.93	11.49	11.00	10.53
TRA18500	1850-1970 MHz	23.93	11.49	11.00	10.53
TRA21300	2130-2200 MHz	23.93	11.49	11.00	10.53
TRA24000	2400-2500 MHz	23.93	11.49	11.00	10.53

900-2400 MHZ NO GROUND PLANE MODELS

TRA9020N	902-928 MHz	25.25	12.12	11.61	11.11
TRA1850N	1850-1970 MHz	25.25	12.12	11.61	11.11
TRA21300N	2130-2200 MHz	25.25	12.12	11.61	11.11
TRA24000N	2400-2500 MHz	25.25	12.12	11.61	11.11

PERMANENT MOUNT SCREWBASE VERSIONS

UHF Models					
TRA4300P	430-450 MHz	43.93	21.08	20.20	19.32
TRA4500P	450-470 MHz	43.93	21.08	20.20	19.32
TRA4700P	470-490 MHz	43.93	21.08	20.20	19.32

800/2400 MHZ MODELS

TRA8060P	806-866 MHz	43.93	21.08	20.20	19.32
TRA8210P	821-896 MHz	43.93	21.08	20.20	19.32
TRA8900P	890-960 MHz	43.93	21.08	20.20	19.32
TRA9020P	902-928 MHz	43.93	21.08	20.20	19.32
TRA1850P	1850-1970 MHz	43.93	21.08	20.20	19.32
TRA21300P	2130-2200 MHz	43.93	21.08	20.20	19.32
TRA24000P	2400-2500 MHz	43.93	21.08	20.20	19.32

900-2400 MHZ NO GROUND PLANE MODELS

TRA9020NP	902-928 MHz	45.25	21.72	20.81	19.91
TRA1850NP	1850-1970 MHz	45.25	21.72	20.81	19.91
TRA21300NP	2130-2200 MHz	45.25	21.72	20.81	19.91
TRA24000NP	2400-2500 MHz	45.25	21.72	20.81	19.91

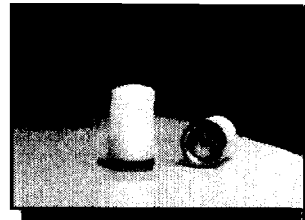
MOUNTING OPTIONS

MBD	3/4" Brass Mt w/17ft. of Teflex	22.92	11.00	10.54	10.08
TMD	Trunk Mt. w/17ft. of Teflex	29.50	14.16	13.57	12.98
GD	Mag. Mt. w/12ft. of Teflex	35.42	17.00	16.29	15.58
LBT3400	"L" bracket	4.06	1.95	1.87	1.79
LBM9034	Mirror Mt. Bracket	12.08	5.80	5.56	5.32
HS34	Hole Saw	26.04	12.49	11.97	11.45
CCT	Crimp Tool	62.40	29.95	28.70	27.45

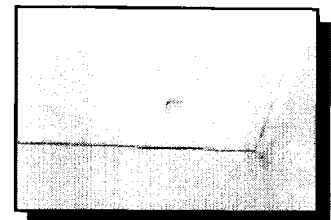
Technical Data

	UHF	800/900	NGP/900
• Gain:	Unity	Unity	Unity
• Frequency Range:	430-450 450-470 470-490	806-869 821-896 890-960	902-928
• VSWR:	<1.5:1 10MHz <2:1 20MHz	<1.8:1 70 MHz	<2:1 26MHz
• Maximum Power:	200 watts	200 watts	100 watts
• Bandwidth:	20MHz	70MHz	26MHz
• Impedance:	50 ohms	50 ohms	50 ohms
• Mounts to:	3/4" hole mt., Magnetic and Mini-Trunk mounts.	3/8" hole mt., Magnetic and Mini-Trunk mounts.	
• Height:	3 1/2"	2 1/2"	3 1/2"

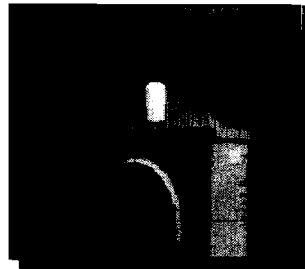
*Available in gray or white. Paintable. Do not use metallic paint.



Mobile Transit



Low-vis office PCN

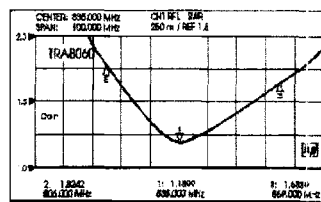


Metering



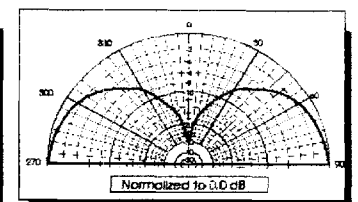
Vending Machine

VSWR

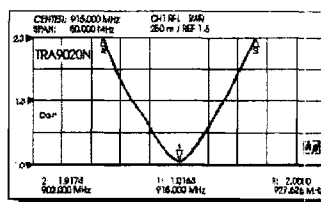


TRA8060

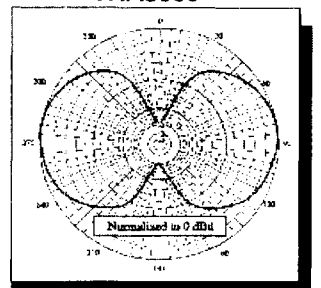
Vertical Field Patterns



TRA8060



TRA9020N



TRA9020N

Engineer's Corner

Our unique **PHANTOM™** antennas have low visibility with a wide bandwidth and low angle radiation pattern that is far superior to flat or "hockey puck" style antennas and can produce results superior to many hi-gain antennas.

Available with our industry standard NMO mounting socket or with a threaded stud mount adapted from the marine antenna industry, our patent pending technology is beneficial when great performance is desired or required.

The **PHANTOM™** features a remarkable new field diversity element - an element that has "radiation diversity" that reduces the annoying drop outs and dead spots encountered with standard antennas.

Patent Pending

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