



### Application

The system is composed of a tripod assembly which interfaces a mast (AMX85) to an antenna (VHF302000DB). The required cables, etc. are also supplied as listed below.

The antenna is the easiest and quickest antenna of this type to mount. All the parts needed to erect a high gain tactical antenna are supplied in the transit bag.

This tactical antenna/mast system is an improved direct replacement for antennas such as the OE-254/GRC and other equivalents. The VHF302000DB is a dual-band two-port antenna (30 to 512 MHz and 1200 to 2000 MHz). It is a one piece tactical antenna designed for use with all modern in service radios covering the band from 30 to 512 MHz. The extra port covering the modern SRW waveform allows for future upgrades to a full network centric system.

The modern design gives improved gain and radiation characteristics across the full frequency range. For urgent use or stealth requirements, the antenna can also be used with only the tripod support and without the mast.

If required, the AMX85 mast support can be clamped to a vehicle and be used without the guy wires. The mast sections may be used at random and any number of sections can be used depending on the height required for good communications. The mast design is robust and resistant to icing conditions as well as salt mist and sand.

### Specification - Antenna

Frequency	30-512MHz and 1200-2000 MHz
Impedance	50 Ohm
Gain	-7 to 1.5 dB rel. ¼ wave whip on ground plane, for 30-512 MHz +4 dBi for 1200-2000 MHz
VSWR	3.0:1 max
Polarization	Vertical
Pattern	Omni-directional
Connectors	30-512 MHz      N Female 1200-2000 MHz      SMA Female
Weight	~ 8.25 lbs (3.75 kg)
Length	~ 4ft8 (1.6 m)
RF Power Capacity	150W CW
Color	Green

### Specification - Mast

Mast Sections	7 pcs fiberglass tube with black paint finish
Guys	4 pcs, braided line on winder, adjustable lock/snap hooks each end
Guy Pegs	6 pcs hot galvanized steel
Base Support	Fiberglass with spikes
Top Load	Accepts antenna plus tripod
Height	~27 ft (8.5 m)
Weight	35.5 lbs (16.2 kg) including all accessories

### Specification - Tripod

Tripod	P/N 045625 with three legs, mast adapter and antenna adapter
Tripod to diplexer cable	40 ft of coaxial cable
Diplexer	One input and two output
Diplexer to radio cables	5 ft coaxial cables (x2)

