



# BROADBAND PROPAGATION

## Antenna Design & Supply

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### MP-30-200 VHF Manpack Whip

This antenna is a light weight, high performance, manpack whip for use in the VHF band between 30-200 MHz. It provides 50 Ohms input impedance all the way across this band with good matching and high radiation efficiency.

Power rating is 50 watts CW, and gain over the band is comparable to a tuned ¼ wave whip antenna. Tuning is automatic and all tuning elements are incorporated within the antenna and base.

Fabricated from specialised high tensile aluminium tubing, the antenna has high impact survival and is lightweight and rugged. The base tuning elements are incorporated in an acetal housing

The antenna whip folds quickly down from its fully extended length of 2.7m to a compact package of only 34cm x 6cm x 6cm. The whip is used fully extended at the lowest frequencies but (within certain limitations) it can be deployed partially extended for use at the high frequency end of the band.

A heavy duty internal shock cord provides firm inter-element contact when the whip is extended and keeps the elements as one unit when it is collapsed.

#### Specifications

Frequency range:	30 to 200 MHz - No external matching or tuner required
Power Rating:	50 watts CW
Radiation pattern:	Essentially Omnidirectional
VSWR	Better than 3:1 across the band
Polarisation:	Vertical
Input Impedance:	50 Ohms
Input connector:	N Type male or similar style RF connector -customer to designate-
Whip Diameter:	10 mm
Height:	2.7m (whip extended).
Collapsed Size:	34cm x 6cm x 6cm
Weight:	340 grams
Mounting:	Direct to radio via Input connector
Colour:	Matt Black overall



Antenna Base/ matching unit



10 Element Collapsible Whip