



Overview

- The MLV is a heavy duty composite sectional sleeve mast capable of supporting headloads up to 130kg*
- Erected height 20 metres.
- The mast comprises individual carbon fibre composite mast tube sections that fit together to give the desired height.
- The mast packs down to a compact kit (maximum length 1.6 metres) allowing stowage in smaller vehicles or shelters.
- The tripod support includes the lifting mechanism and hoist to raise each section.
- Telescopic tripod legs allow deployment on uneven ground.
- Tripod has a kneeling function to allow easy access to the top load.
- Guys are manufactured from either steel wire or aramid rope.
- Central guying enables the guy tension to be maintained during erection of the mast. This enables the mast to be deployed safely in high winds.
- The mast is supplied with a ground mounting kit containing all the items required for field deployment.
- Suitable for supporting heavy headloads such as directional and omni-directional antennas, optronic equipment, lighting etc.
- 360 degree azimuth rotation is possible from the ground to orientate the headload.

* Subject to top load wind surface area

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Installation

Two people only are required to erect the mast. Once the tripod has been deployed it can be set into a kneeling position (see photo opposite). This allows the top load to be installed at ground level. The tripod is then set back into the upright position and staked to the ground using the supplied ground stakes.

One person is in charge of the lifting winch, and the other person the guy winch. The guy winch keeps the top guys under tension during deployment allowing the mast to be deployed in high winds. The mast tubes are fed into the tripod from the underside, and then lifted into position using the supplied by the lifting winch mechanism. Once fully erected the mast guys can be fully tensioned.



Kneeling position enables easy access to the top load

Mechanical Specification

Characteristic	MLV 125/20-1.6
Height, deployed mast	20 m
Max. length for transport	1.6 m (with dismantled tripod) 2m (without dismantling tripod)
Weight	260 kg
Maximum wind* Survival operational conditions for deployment	150 km/h 100 km/h 60 km/h
Max. vertical load on top	130 kg / 300 lb.
Pointing accuracy (operational wind) With / without STAR BAR	$\pm 1^\circ$ / $\pm 5^\circ$
Required number of operators	2
Time for deployment	35mn
Max. slope	$\pm 10^\circ$

* values may vary according to antenna specification

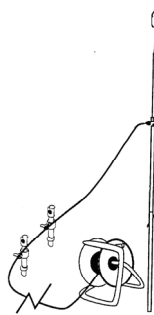
Mast Options



Anti-twist systems: Star Bar and T-Bar



Electrical motor for lifting winch



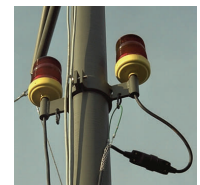
Lightning Protection



Electrical or manual positioner



Stake remover for hard soils



Night warning beacon