

## MX-137 VHF SATELLITE ANTENNA

### INSTALLATION AND OPERATING INSTRUCTIONS



Insert the separately packed 4 antenna radiators into the BNC-sockets and make sure that they securely snap in. A little force may be necessary when rotating them to the snap-in point, but use only hand force no pliers. The antenna should be mounted on top of a mast. Using a side boom on a metal mast is not recommended. Keep at least 1-2 m distance from other antenna systems. Strong radiation from nearby VHF transmitter antennas may damage the amplifier inside the MX-137. Such damages and damages by a direct flash of lightning are not covered by our warranty.

The built-in amplifier requires a DC supply voltage of 9 ... 15V at 5mA, which must be delivered through the coaxial feed cable.

Compared with our full-size antenna KX-137 the MX-137 does not have the two reflector elements to reduce reflections from the ground. Such reflections superimpose the direct signal and due to the phase variations may lead to signal level variations or even drop-outs. Such problems can be reduced or even eliminated by finding the best antenna location/height. Keep in mind that the probability and number of reflections increases with the antenna height. Therefore, if a line of sight to the satellite is guaranteed like on board of a yacht, the antenna should only be mounted as high as even necessary. On top of the highest mast may not be the best position, better may be a location like on the picture below.



Reception often is degraded by broadband interference noise radiated from all kind of electronic devices, ranging from computers, tv-sets to coffee machines and all kind of switching power supplies. Keep the antenna several meters away from such possible noise sources. If in doubt disconnect these device(s) from power and check if satellite reception is improved. The level indication on the APT-06 receiver may help to analyse interfering noise levels.

It is recommended to first do some reception tests before the final location is decided.



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