

# $\frac{1}{4}$ $\lambda$ Mobile Antenna for the 160 MHz Band

# DESCRIPTION

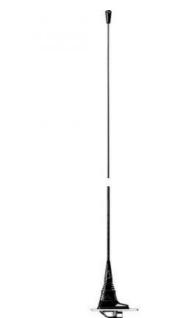
- Black-chromed, conical stainless steel whip.
- > Elegant transition between whip and mounting surface due to slim-line mount.
- > 30° tiltable whip.
- Stainless steel X-mount with M6-thread whip-fastening system.
- > Simple mounting exclusively with access from the outside.
- Models available with X-mount (oblong), XG-mount (oblong with GPS), CX-mount (circular) and MM-mount (magnetic).
- > Choose between four connection possibilities:
  - X-mount, CX-mount, MM-mount: FME-connection (supplied without cable).
  - > XP4-mount, CXP4-mount: Permanently attached 4 m cable terminated with FMEconnector.
  - > XG-Combi mount: FME-connection and GPS (supplied without cable).
  - > XGP4-Combi mount: Permanently attached 4 m cable terminated with FMEconnector for whip and 0.15 m RG 178 with MFME for GPS.
- Easily removable whip for car wash.
- > GPS-antenna for fixed installations.
- > Full hemispherical coverage.
- > Built-in high-gain, low-noise amplifier.
- Fight-Hand Circular Polarization (RHCP).
- 2.85 V 5 V supply voltage (typical 3 V).

#### SPECIFICATIONS

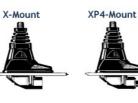
Electrical		
Model	MH 1-XR, MH 1-XGR, MH 1-CXR, MH 1- MMR	
Frequency	Tunable by cutting within: 144175 MHz (Also applicable: 175225 MHz)	
Antenna Type	Mobile whip antenna	
Max. Input Power	150 W Max. Power for models incl. GPS, is reduced to 30 W	
Polarisation	Vertical	
Impedance	50 Ω	
VSWR	≤ 1.3 @ f. res.	
Bandwidth	≥ 15 MHz @ VSWR ≤ 2.0	
Gain (EIA RS-329-1)	0 dB	

# Mechanical

Materials	Whip: Black-chromed Conical stainless steel Black-chromed brass Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel	
Installation Torque	4 ±1 Nm	
Colour	Black	
Height	Approx. 550 mm / 21.65 in.	
Weight	X-version: Approx. 70 g XP4-version: Approx. 210 g CX-version: Approx. 70 g CXP4-version: Approx. 210 g XG-version: Approx. 90 g XGP4-version: Approx. 230 g MM-version: Approx. 310 g	



## THE WHIP IS COMPATIBLE WITH ALL BELOW MOUNTS





CX-Mount

XGP4-COMBI Mount



CXP4-Mount







#### ORDERING

Model	Product No.	Description
MH 1-XR	130000708	X-mount (oblong) with FME-system
MH 1-XP4R	130000710	XP4-mount with 4 m cable and FME-connector (oblong)
MH 1-XGR	130002059	XG-Combi mount (oblong) with FME-system and GPS
MH 1-XGP4R	130002063	XGP4-Combi mount with 4 m cable and FME-connector (oblong) and GPS
MH 1-CXR	130000709	CX-mount with FME-system (circular)
MH 1-CXP4R	130000711	CXP4-mount with 4 m cable and FME-connector (circular)
MH 1-MMR	130000707	MM-mount with FME-system (magnetic)

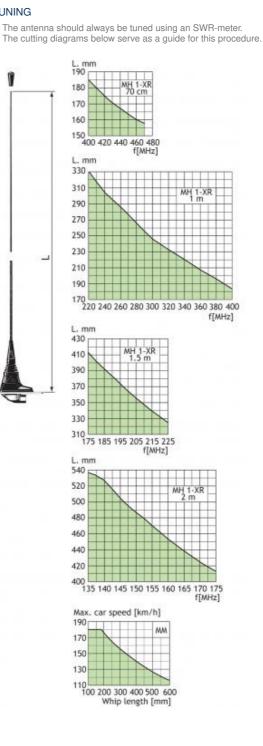
TUNING

#### INSTALLATION AND ASSEMBLY INSTRUCTIONS

Please refer to the data sheet of each individual mount to find the installation and assembly instructions.

## PLEASE NOTE

For safety reasons: Do not operate the MiniMag with antenna whips longer than 60 cm. Please respect the maximum car speed limit corresponding to a particular whip length as appears from the above curve.



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