



DX-HF-PRO-1

WIDE BAND MOBILE ANTENNA FOR RADIOAMATEUR
HF / VHF / UHF
7 MHz ~ 430 MHz

DX-HF-PRO1 is a wide band mobile antenna which allows to transmit in a wide range of amateur frequencies (HF/50/144/430 MHz) . It's a reduced $1/4 \lambda$ antenna for HF, $1/4 \lambda$ for 50/144 MHz and $5/8 \lambda$ for 144/430 MHz. For 144 MHz band, can be used as $1/4 \lambda$ or $5/8 \lambda$ using the short additional rod or the long additional rod (both supplied). For HF, you must manually adjust with a variable coil with the body of the antenna and with the complete rod.



IMPORTANT NOTES

- Antenna for portable use. Not indicated for fixed or permanent installation because it's not prepared for inclement weather.
- Use the vehicle body or a metal handrail as grounding.
- You should not use it while the vehicle is running because it is not ready for wind resistance.
- Do not touch the antenna during transmission due to the risk produced by the radio frequency emission.

FEATURES

Frequencies	HF / 50 / 144 / 430 MHz
Wavelength	HF: $1/4 \lambda$ reduced. 50 MHz: $1/4 \lambda$ 144 MHz: $1/4 \lambda$ (with short additional rod) 144 MHz: $5/8 \lambda$ (with long additional rod) 430 MHz: $5/8 \lambda$ (with long additional rod)
Maximum power	130 W PEP
Impedance	50 Ω
Connector	PL male.
Length	0.5 m ~ 1.77 m.
Weight	300 grs.
Additional accessories	Short rod. Long rod.



ADJUSTING THE ANTENNA

- Depending on the HF frequency you want to transmit, slide the antenna body to the position shown in the table below:

Frequency	Scale (mm)
28 ~ 30 MHz	3
21 ~ 25 MHz	4
18 MHz	5
14 MHz	8
10.5 MHz	16
7.4 MHz	22

- To work on HF frequencies you must have the complete rod installed.
- With the hand loose the fixation. Do not use tools to avoid damaging the antenna.
- Slide the antenna body to the desired position according to the above table.
- Tight the fixation by hand. Do not use tools to avoid damaging the antenna.
- If you detect SWR greater than 1: 1.5 you should try moving the rod and / or body of the antenna until you get a lower SWR.
- For 50 MHz band, you must retract the antenna body down and use the complete rod.
- For 144 MHz band, you must retract the antenna body down. If you want $5/8 \lambda$ antenna you should use the additional long rod. If you want $1/4 \lambda$ antenna you should use the additional short rod.
- For 432 MHz band, you must retract the antenna body down and use the additional long rod.

INSTALLATION OF THE ANTENNA

- In a vehicle you can install it on a magnetic base (remember that you should not carry the antenna while the vehicle is running).
- You can also install it on a metal surface with a magnetic base and ground.
- You can also install it on a railing to be grounded.
- The antenna must be installed in vertical position for best performance.
- If you cannot obtain SWR lower than 1: 1.5 please use an antenna coupler.

