

Specifications

Model	GRA-CF2200	GRA-CF5200
Material	Carbon Filber	Carbon Filber
Color	Navy Blue	Navy Blue
Sections	8	10
Collapsed Length	40cm (15.7")	64.5cm (25.4")
Extended Length	226cm (89")	512cm (201.6")
Default Connector	M10-1.0P male	
Included Adapter	M10-1.0P to 3/8-24 male	
Weight(With Adapter)	103g (3.63oz)	238g (8.39oz)
Weight(Without Adapter)	78g (2.75oz)	214g (7.55 oz)

Usage Precautions

- Always extend from the top (thinnest section) first**
Pull out each section in order from the smallest to the largest. This ensures smooth extension and avoids structural damage.
- Make sure each section is fully extended and locked**
Extend until you feel or hear a “click” or secure stop — this ensures a stable structure and electrical contact.
- Retract in reverse order from the base (thickest section)**
Do not push from the top downward; instead, retract one section at a time from the bottom up.
- Avoid lateral pressure or bending**
Carbon fiber is very strong but not designed for side-force bending. Always keep the antenna upright during use.
- Do not use near high-voltage sources or during thunderstorms**
This is a conductive antenna. Using it near power lines or during lightning may be dangerous.
- Not intended for use while walking or in motion**
If installed on a mobile rig or carried in the field, always retract the whip before moving to prevent breakage.
- If a section is stuck, do not forcefully pull**
Try gently twisting while pulling with a cloth for better grip. Avoid excessive force that may cause cracking.
- Clean regularly after outdoor use**
Dust or sand can affect the sliding joints. Use a soft dry cloth or alcohol wipes to clean between segments.

Antenna Usage Notes

Is it just a whip or a full antenna?

A whip by itself is only the radiating element. To function as a complete resonant antenna system, it typically needs to be paired with a coil (loading coil), especially for HF bands.

Our GRA-CF2200 (2.2 m) is ideal for use with adjustable coils such as GRA-7350T, GRA-RPG, or GRA-AT330T, and does not resonate independently on HF bands.

Our GRA-CF5200 (5.2 m) is long enough to resonate near 14 MHz (20m band) on its own, making it suitable for some single-band operations. However, for multi-band performance or optimal tuning, it is still recommended to use a coil or tuner.

Note: The longer the whip, the more efficient it becomes on lower frequencies — but length alone does not guarantee resonance.