



teamSENTINEL®

Vanguard Gen3 HF Antenna Element

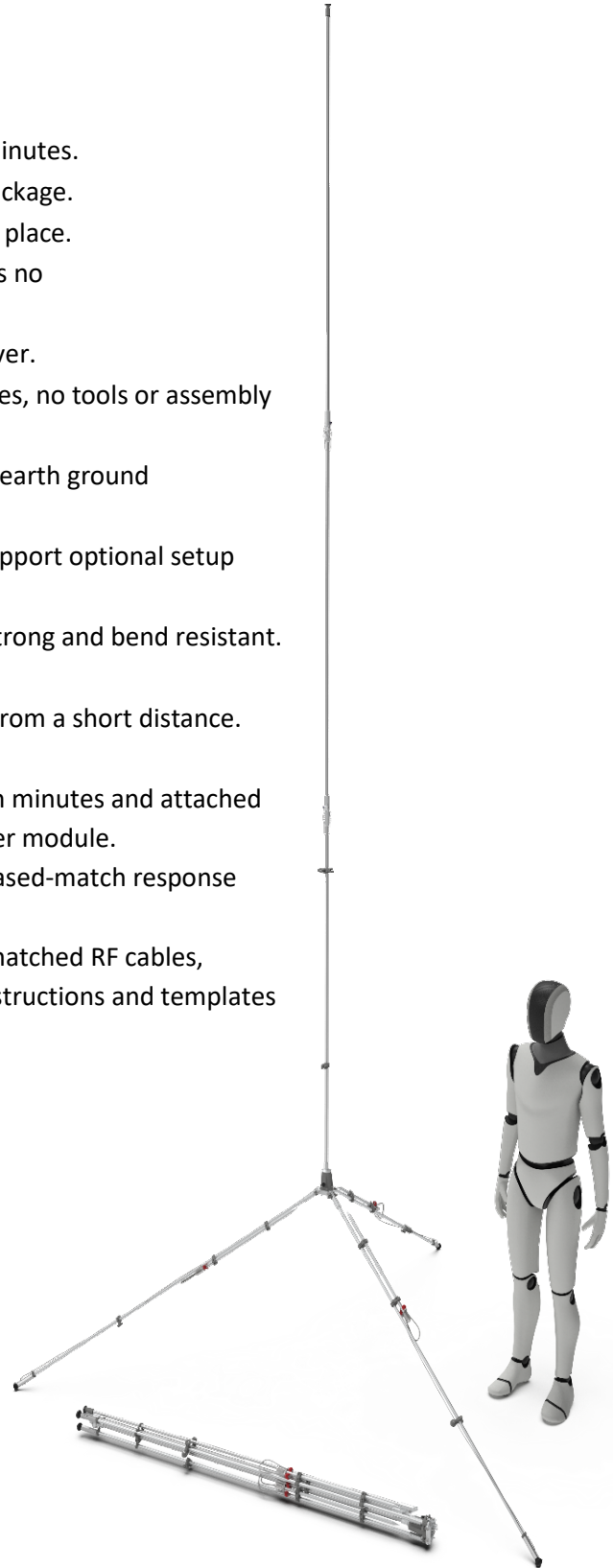
The teamSENTINEL Vanguard folding HF Antenna Element utilizes advanced technologies like composite reinforced components and additive manufacturing to deliver outstanding durability and utility to the expeditionary warfighter. Each element can be setup in five minutes or less. An array of elements can be deployed in less than two hours to establish a fully operational HD/DF receiving site. Gen3 antennas provide important improvements in weight reduction and even faster in setup and teardown.

Mechanical Specifications

- Height: 18.25' (5.55m)
- Weight: 7.5lbs (3.4kg)
- Element Diameter: ½" (12.7mm)
- Deployed Footprint Diameter: 9.8' (3.0m)
- Length when Folded: 5.6' (1.7m) (1/3 the length deployed)
- Diameter when Folded: 4.75" (0.12m)

Design Features

- Frequency coverage: 1~32MHz.
- Ultralight.
- Can be erected or taken down in just a few minutes.
- Folds down into a compact, self-contained package.
- Joints snap and lock together to hold them in place.
- Other than the RF cable, the antenna requires no ancillary components.
- Single TNC connection with weatherproof cover.
- Other than driving/removing the ground stakes, no tools or assembly is required.
- Anchoring ground stakes double as electrical earth ground connection.
- Built-in hard surface ground connection to support optional setup configurations.
- Composite reinforced to make the antenna strong and bend resistant.
- No guy wires are needed.
- The extremely thin profile is difficult to spot from a short distance.
- For HF direction finding (HF/DF) operations
 - Multiple elements can be deployed in minutes and attached to Espy's all-weather HF/DF sequencer module.
 - Espy's proprietary balun provides phased-match response across the full frequency range.
 - HF/DF Antenna kit includes phased-matched RF cables, measurement instruments, layout instructions and templates and modular transit cases.



TeamSENTINEL Vanguard™ HF Antenna System



