

### Description:

The UHF720VM-HG is a high gain wideband antenna particularly suited to tactical LTE data environments including tactical Link-16.

The collinear dipole array design ensures maximum gain, expanding network coverage in the field.

The antenna is designed for use on all modern in-service military platforms, including armored or soft skin, metal chassis or composite, wheeled or tracked. A full range of mounting options are also available for static mounting on shelters or deployable masts.

### Electrical specifications:

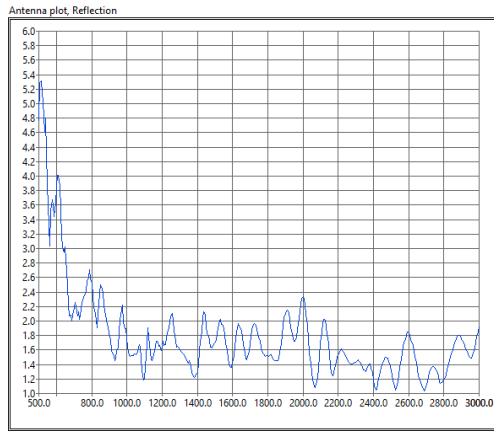
|                   |                                  |
|-------------------|----------------------------------|
| Frequency range   | 700-2000 MHz                     |
| VSWR              | ≤ 3:1 (see plot)                 |
| Nominal impedance | 50 ohm                           |
| Power rating      | 75W CW, 200W PEP                 |
| Gain              | See plot                         |
| Radiation pattern | Azimuth: Omnidirectional         |
| Polarisation      | Vertical                         |
| Connector         | N-Type female, others on request |

### Mechanical specifications:

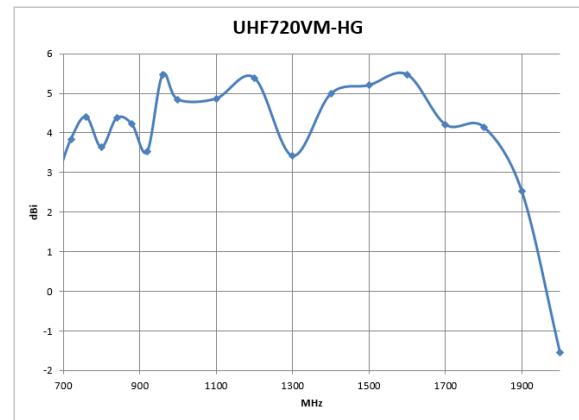
|                   |  |
|-------------------|--|
| Design            | Broadband collinear dipole array. Radiating element completely enclosed in epoxy/fiberglass laminate. Metal parts are brass and stainless steel. |
| Length *          | Total: 1.08 m (42.5 in)<br>Whip: 0.85 m (33.5 in)<br>Base: 0.24 m (9 in)   |
| Weight *          | Total: 3.65 kg (7.6 lbs)<br>Whip: 1.2 kg (2.6 lbs)<br>Base: 2.45 kg (5 lbs)  |
| Wind rating       | 55 m/s = 125 mph   |
| Finish            | Polyurethane lacquer, olive drab, other colors on request.   |
| Temperature range | -55 °C, +71 °C; -67 °F, +160 °F  |
| Installation      | Standard 4 hole NATO base with spring (options available)  |

\* Dimensions and weights for standard 4-hole vehicle mounted version (base type A)

## VSWR



## Gain

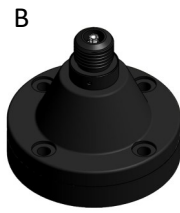


## Base Options

Bases are available to suite most mounting configurations. L1 and L1/L2 GPS and high voltage protection is also available on many bases. Below is a small selection, please contact Comrod to discuss your requirement.



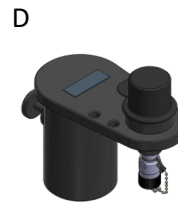
A  
NATO 4-hole Spring  
GPS Option  
4 x M10 or 3/8" Bolts  
on 114mm (4.5in) PCD  
Base Dia. 140mm (5.5in)



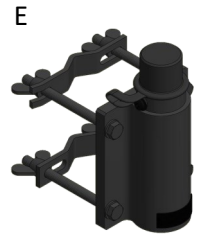
B  
NATO 4-hole Rigid  
GPS Option  
4 x M10 or 3/8" Bolts  
on 114mm (4.5in) PCD  
Base Dia. 140mm (5.5in)



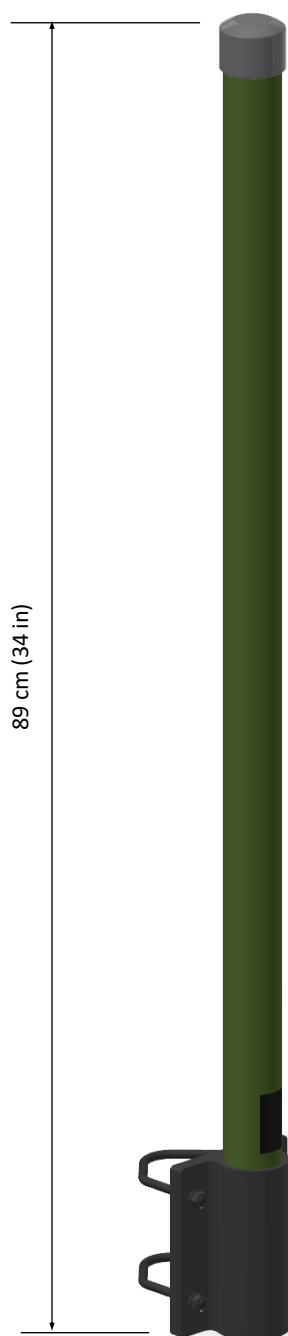
C  
NATO 50mm Thread  
GPS Option  
Base Dia. 74mm (2.9in)  
Base Dia. 95mm (3.74in) - GPS



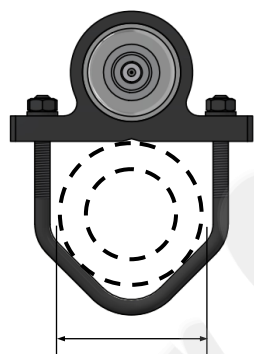
D  
Mast Mount Bracket  
Ø24mm (0.95in) Spigot  
Ø40mm (1.57 in) Spigot  
Ø50mm (1.97in) Spigot  
Ø40mm (1.57in) Socket  
Ø50mm (2in) Socket  
Customer Specified



E  
Pole/Rail Clamp Bracket  
Pole diameters up to 65mm  
0 or 90 degree mounting



A permanent mast mount version is also available.  
(Part No. UHF720M)  
Supplied with U-bolts to fit pole size  $\varnothing$  25-65 mm



Mounting pole diameter  
25-65 mm (1-2.5 in)



Mast mount version  
supplied with mast  
mounting bracket  
( $\varnothing$ 24mm spigot  
version shown)

