

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:

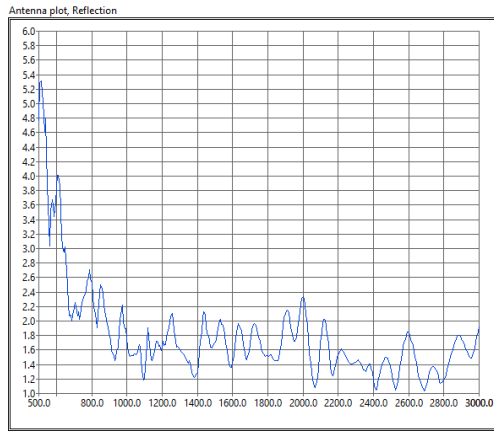
Frequency range	700-2000 MHz
VSWR	≤ 3:1 (see plot)
Nominal impedance	50 ohm
Power rating	75W CW, 200W PEP
Gain	See plot
Radiation pattern	Azimuth: Omnidirectional
Polarisation	Vertical
Connector	N-Type female, others on request

Mechanical specifications:

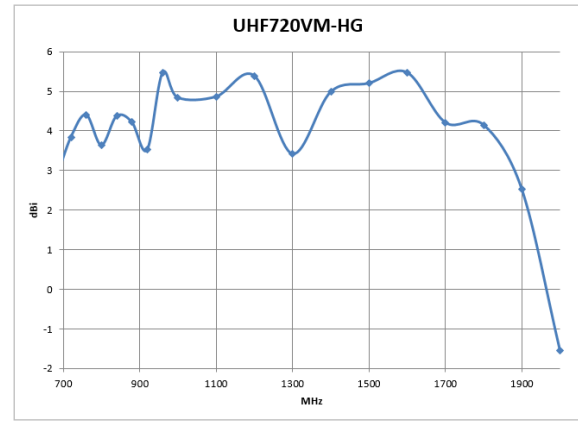
Design	Broadband collinear dipole array. Radiating element completely enclosed in epoxy/fiberglass laminate. Metal parts are brass and stainless steel.
Length *	Total: 1.08 m (42.5 in) Whip: 0.85 m (33.5 in)
Weight *	Total: 3.65 kg (7.6 lbs) Whip: 1.2 kg (2.6 lbs) Base: 2.45 kg (5 lbs)
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, olive drab, other colors on
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

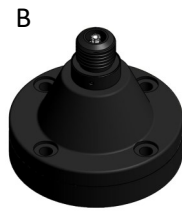


Base Options

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.



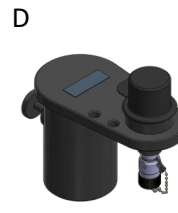
A
NATO 4-hole Spring
GPS Option
4 x M10 or 3/8" Bolts
on 114mm (4.5in) PCD
Base Dia. 140mm (5.5in)



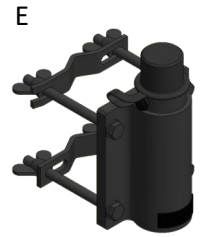
B
NATO 4-hole Rigid
GPS Option
4 x M10 or 3/8" Bolts
on 114mm (4.5in) PCD
Base Dia. 140mm (5.5in)



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

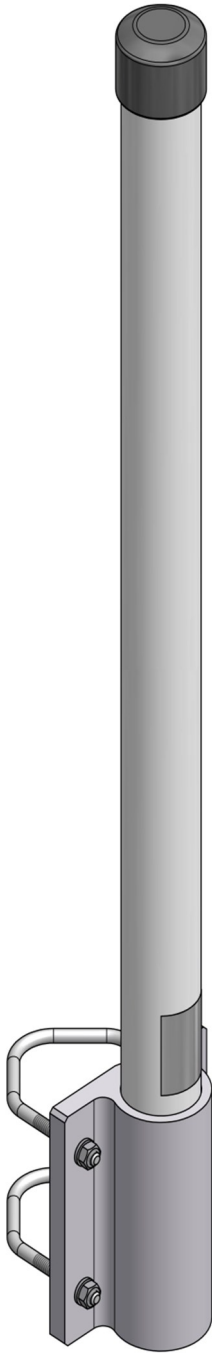


D
Mast Mount Bracket
Ø24mm (0.95in) Spigot
Ø40mm (1.57 in) Spigot
Ø50mm (1.97in) Spigot
Ø40mm (1.57in) Socket
Ø50mm (2in) Socket
Customer Specified

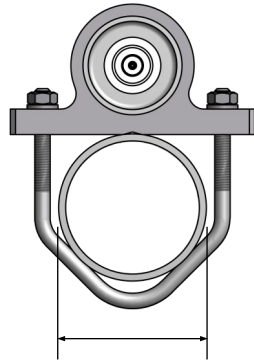


E
Pole/Rail Clamp Bracket
Pole diameters up to 65mm
0 or 90 degree mounting

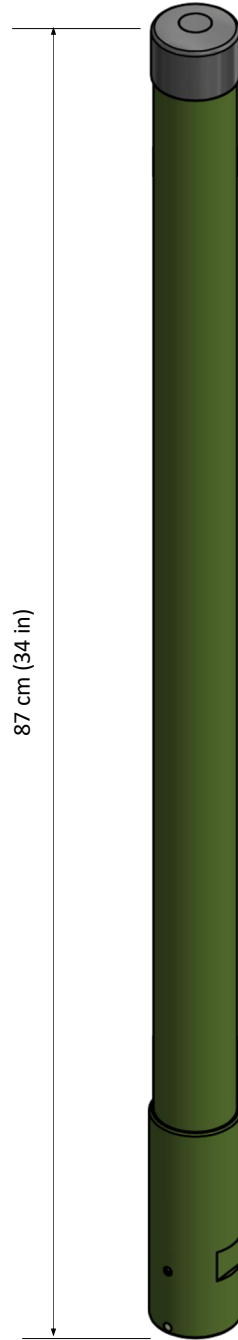
Antenna variants



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

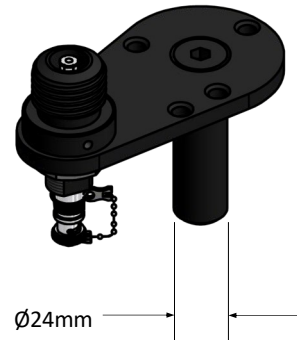


Mounting pole diameter
25-65 mm (1-2.5 in)



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

87 cm (34 in)



\varnothing 24mm