

DETAMS

Dual Elevated Tri-band Antenna Mast System (DETAMS), 15 m,
30-88 MHz, 225-450 MHz, 1200-2600 MHz

Tactical Antennas: Tactical and Base Station



DETAMS deployed

- Tactical kit includes two Tri-band Antennas mounted on a 15 m Mast Kit
- Antenna frequency range:
 - VHF (30-88 MHz)
 - UHF (225-450 MHz)
 - L-Band (1200-2600 MHz)
- Single port Antenna design reduces cabling to Antennas
- Antenna tripod included for ground level deployment
- Coaxial Cables and Triplexers included
- 15 m composite tripod sectional support mast
- Complete kit supplied in three compact bags
- System can be deployed by two operators in 20 minutes



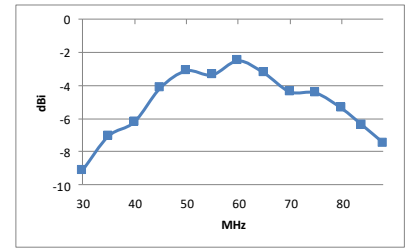
Antenna and Mast Kit supplied in three compact carrying bags



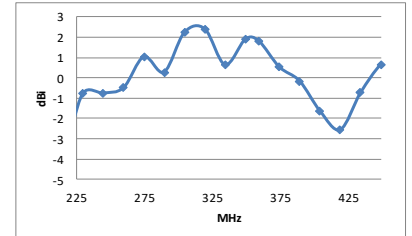
Antenna and Mast Kit removed from bags

Specifications - Antenna Assembly

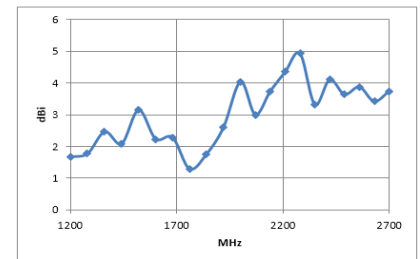
	VHF	UHF	L-Band
Frequency Range	30-88 MHz	225-450 MHz	1200-2600 MHz
VSWR	< 3.5	< 3.0	< 3.0
Nominal Impedance	50 Ω		
Power Rating	75 W	75 W	50 W
Radiation Pattern	Omnidirectional within ± 2 dB		
Polarisation	Vertical		
Connector	N type Female		
Design	VHF monopole, UHF dipole, L-band dipole elements. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are brass, aluminium and stainless steel.		
Height	3.1 m - Antenna + Antenna Tripod		
Weight	Whip: 1.4 kg, Tripod: 4 kg		
Wind Rating	55 m/s = 201 km/h		
Finish	Polyurethane lacquer		
Temperature Range	- 55°C to + 71°C		



VHF gain, dB rel. 1/4 wave resonant whip in centre of 3x3m ground plane



UHF gain, dBi



L-band gain, dBi

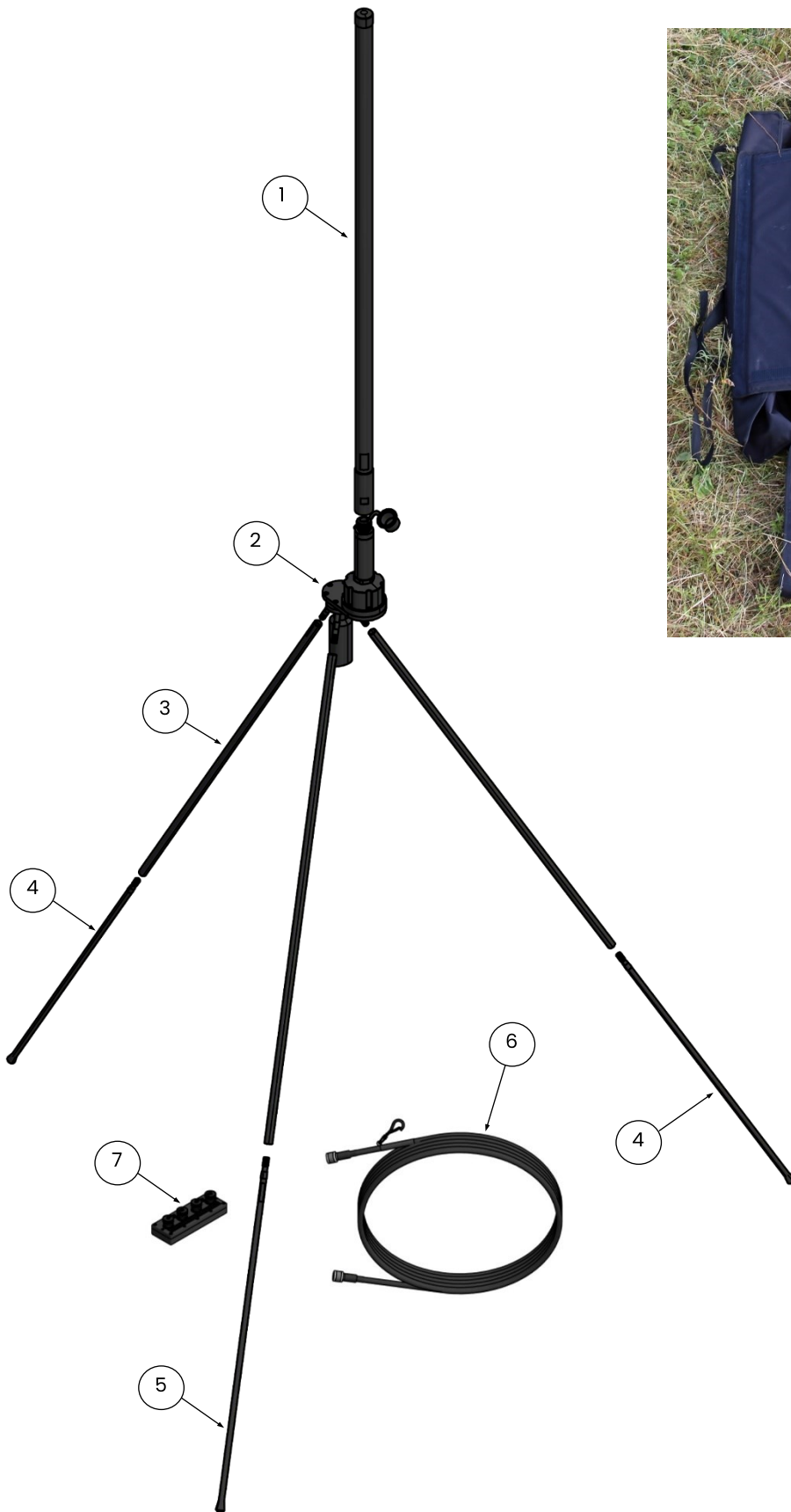


Antenna Assembly



Antenna Bag (parts removed)

Antenna Assembly (x2)



Antenna Bag (Packed)

Antenna Kit List

Antenna Kit (Bag 3)	Item	Qty
Antenna Whip	1	2
Antenna Mast Adaptor	2	2
Inner Radial I	3	6
Outer Radial D	4	4
Outer Radial C	5	2
LMR-400 Cable 25 m	6	2
Triplexer	7	2
Securing Strap (not shown)	-	2
Cable Stake (not shown)	-	1
Carrying Bag 3 (not shown)	-	1
Roll Bag (not shown)	-	1

Specifications - Mast Kit

Maximum Height	15 m
Tube Diameter	48 mm
Mast Section Length	1092 mm
Maximum Headload*	20 kg
Maximum Wind Speed:	
Deployment	40 km/h
Operation	90 km/h
Survival	120 km/h
Total Mast Kit Weight	48 kg
Guy Radius	15 m
Top Load Interface	Ø 41.8 mm spigot
Temperature Range	+ 55°C to - 40°C
Anchoring	3 locations at 120°
Guying - 2 levels	Lower level - Kevlar/Polyester Rope Upper level - Kevlar/Polyester Rope
Standard Colours	Green, Tan or Black

* Subject to wind surface area



Mast Bags

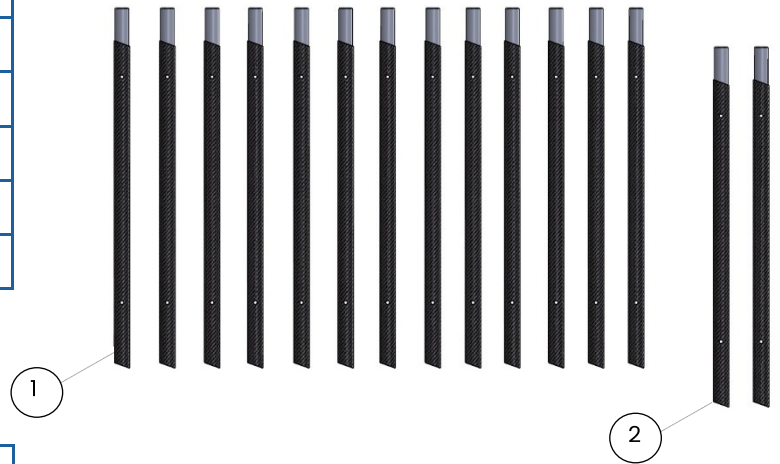


Mast Central Guying System

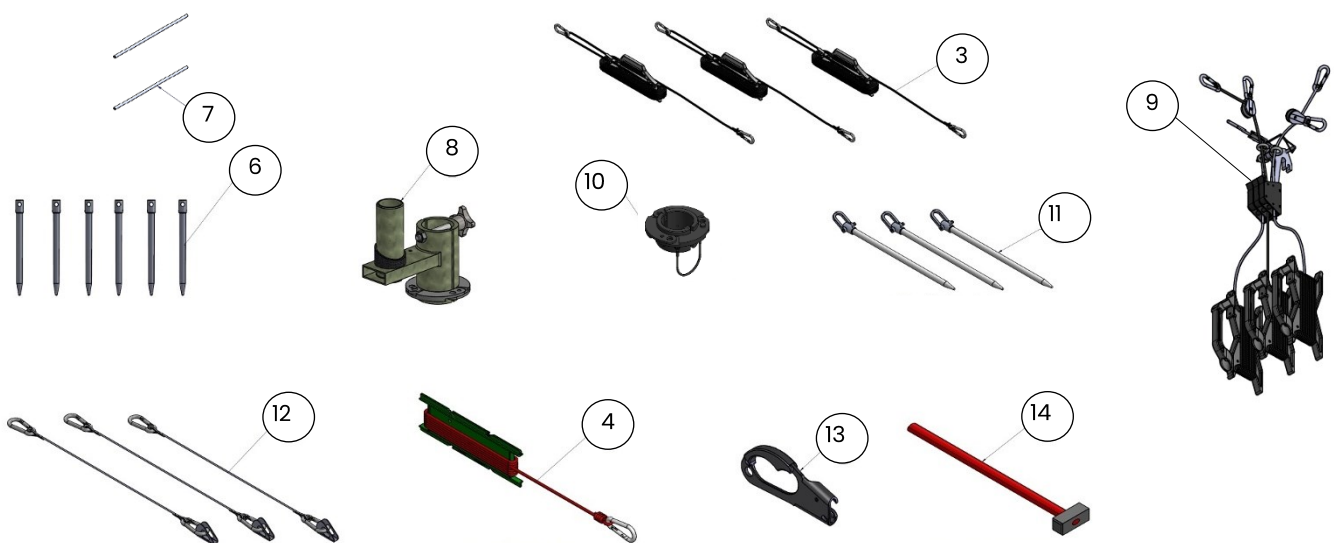
Mast Kit List

Description (Bag 1)	Item	Qty
Mast Section (carbon fibre)	1	13
Mast Section (fibreglass)*	2	2
Lower Guy Rope	3	3
Radius Rope	4	1
Transportation Bag (not shown)	-	1

* RF invisible fibreglass sections installed next to lower antenna



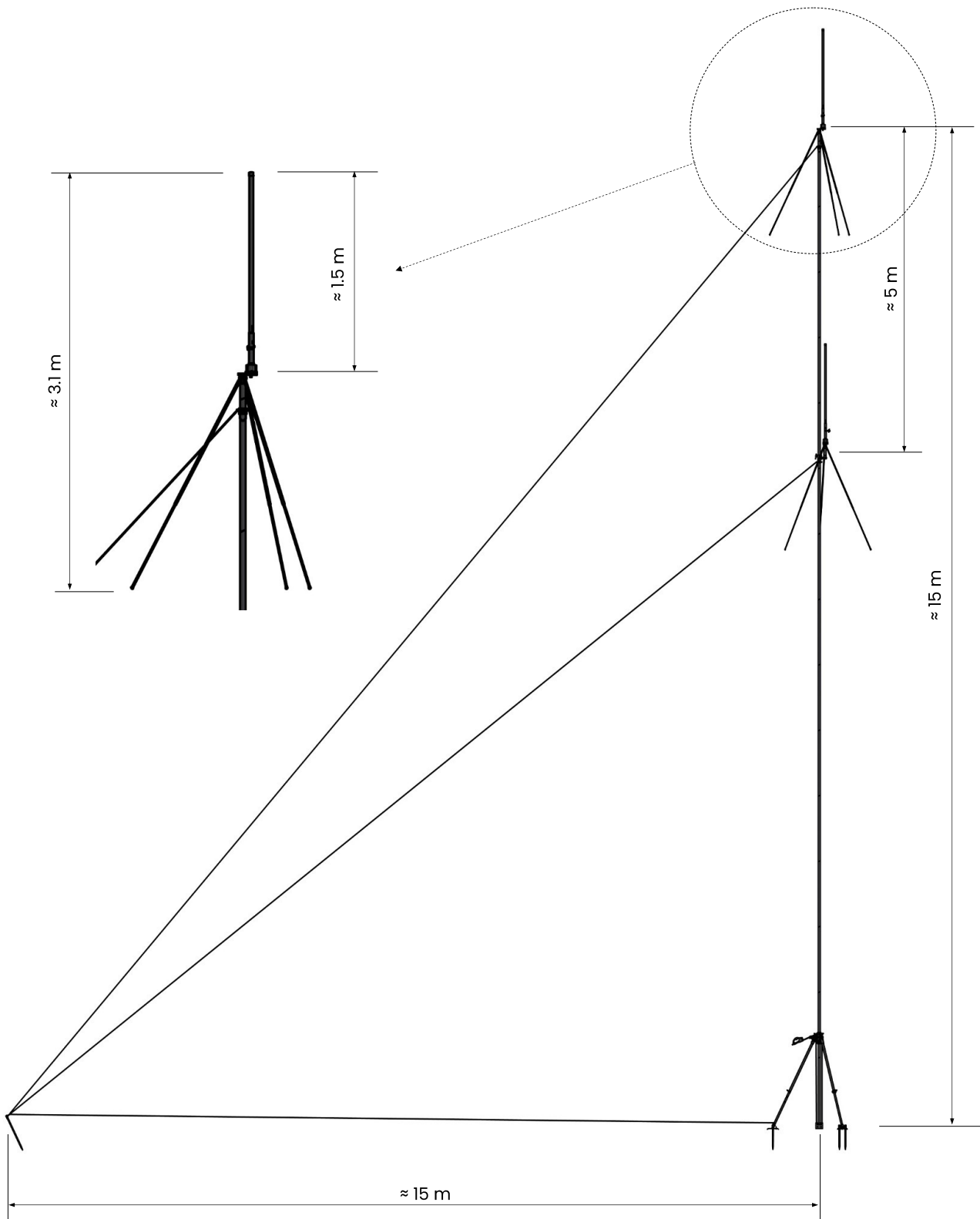
Description (Bag 2)	Item	Qty
Mast Tripod Assembly	5	1
Anchor Stake	6	6
Cross Pin	7	2
Lower Antenna Bracket	8	1
Central Guying System	9	1
Guying Collar	10	1
Guy Stake	11	3
Fast Tensioner	12	3
Lifting Handle	13	1
Hammer	14	1
Stake Roll-Up Bag (not shown)	-	1
Transportation Bag (not shown)	-	1



Weights and Dimensions

Mast Bags: Bag 1 = 20 kg
Bag 2 = 28 kg

Antenna Bag: Bag 3 = 29 kg



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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



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