ULM-C 48/X.X-1.2

6-15 m sectional tripod mast kit, lightweight 1.1 m sections, 48 mm diameter

Tactical Masts: Sectional Tripod

15 metre ULM-C 48/15-1.2 mast shown

Overview

- The ULM-C 48 is an ultra-lightweight carbon composite tripod mast capable of supporting headloads up to 25 kg*
- Fully deployed height of 6, 10, 12 and 15 metres. Intermediate heights available on request.
- The mast is comprised of individual carbon composite mast tube sections that fit together to give the desired height.
- The aluminium tripod support includes a lifting mechanism and hoist to raise each section.
- Telescopic tripod legs allow deployment on uneven ground.
- Tripod height of 1.4 metres allows easy access to top load
- Central guying enables the guy tension to be maintained during deployment of the mast. Enables safe deployment in high winds.
- Supplied with a ground mounting kit containing all the items required for field deployment.
- Supplied in two carrying bags 1200 x 270 x 280 mm
- Optional antenna mounting kit can be supplied to allow an omnidirectional antenna to be mounted below the top load (see page 4).
- Can be used to elevate omnidirectional and directional antennas, sensors, lighting, etc.
- Can be rapidly deployed by two operators (see table).
- Full compliance with ANSI TIA/EIA-222-F wind standard.

* Typical values shown. Actual values will be subject to a combination of top load weight, top load area and pointing accuracy required.

Complete mast kit packs into two man-portable bags (15 m kit)

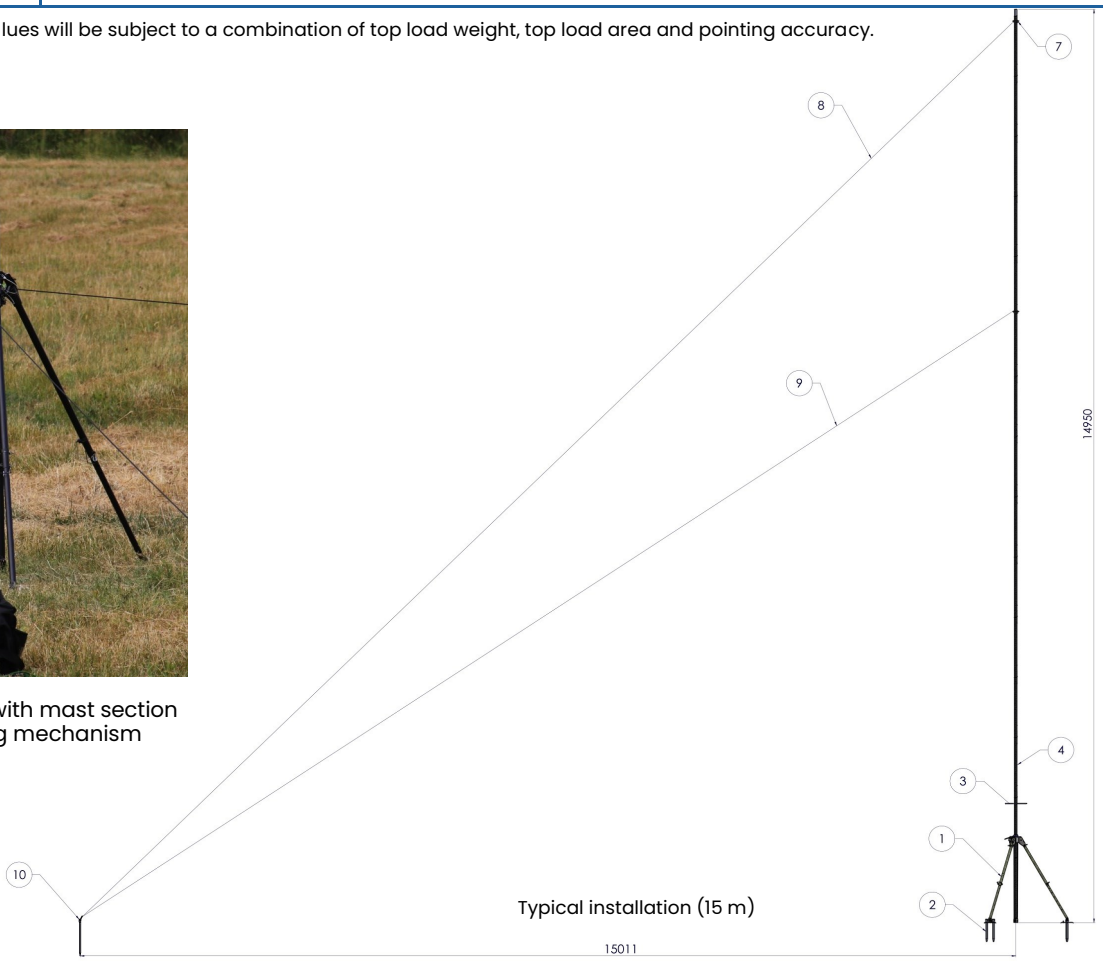
Mechanical Specifications

C Carbon Fibre - **48** tube diameter 48 mm / **XX** maximum height - **1.2** retracted length

Model	ULM-C 48/6-1.2	ULM-C 48/10-1.2	ULM-C 48/12-1.2	ULM-C 48/15-1.2
Height	6 m	10 m	12 m	15 m
Tube Diameter	48 mm			
Mast Section Working Length	1092 mm			
Maximum Headload*	25 kg 0.5 m²	20 kg 0.5 m²	20 kg 0.5 m²	20 kg 0.5 m²
Maximum Wind Speed: **Deployment** **Operation** **Survival**	40 km/h 90 km/h 120 km/h			
Maximum Bending Deflection under Operational Wind*	< ± 3°	< ± 3°	< ± 3°	< ± 3°
Total Kit Weight	33 kg	38 kg	40 kg	43 kg
Guy Radius	6 m	10 m	12 m	15 m
Top Load Interfaces available	40 mm spigot 50 mm spigot Vee Ring Adaptor			
Anchoring	3 locations at 120°	3 locations at 120°	3 locations at 120°	3 locations at 120°
Guying	1 Level	2 Levels	2 Levels	2 Levels
Standard Colour	Black			
Number of Operators	2 or 3	2 or 3	2 or 3	2 or 3
Setup Time	15 mins	< 20 mins	20 mins	20 mins
Temperature Range	- 40°C to + 55°C			

* Typical values shown. Actual values will be subject to a combination of top load weight, top load area and pointing accuracy.

Tripod assembly with mast section hoist and lifting mechanism



Typical installation (15 m)

Typical Kit List (15 m version)

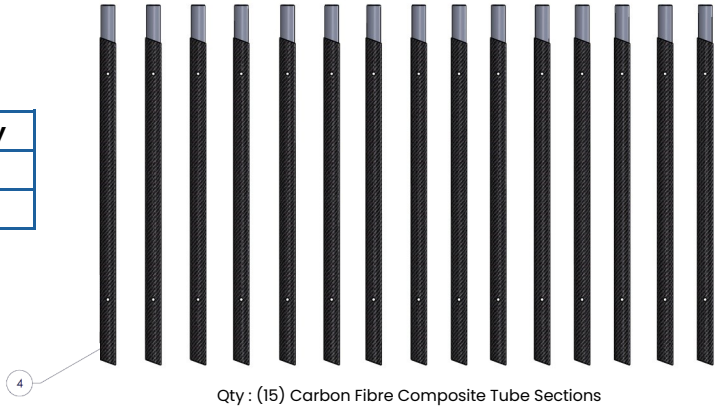
Bag 1

1200 x 270 x 280 mm

Bag 2

1200 x 270 x 280 mm

Description (Bag 1)	Item	Qty
Mast section (Carbon Fibre Composite)	4	15
Transportation bag	-	1



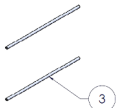
Qty : (15) Carbon Fibre Composite Tube Sections

Description (Bag 2)	Item	Qty
Tripod assembly with lifting system	1	1
Anchor stakes	2	6
Cross pin	3	2
Guying collar	7	2
Central guying system	8	1
Lower guy cable	9	3
Guy stakes	10	3
Guide handle	11	1
Fast Tensioner	12	3
Radius rope	13	1
Lifting handle	14	1
Hammer 3 kg	15	1
Transportation bag	-	1

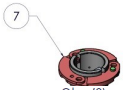
Qty : (1) Tripod Assembly

Qty : (3) Lower Guy Cable
556423

Qty : (6) Anchor stake
64267



Qty : (2) Crosspin
11939



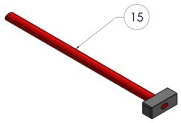
Qty : (2)
Qty : (1) Guying collar
65849

Qty : (3) Guy stake
65852

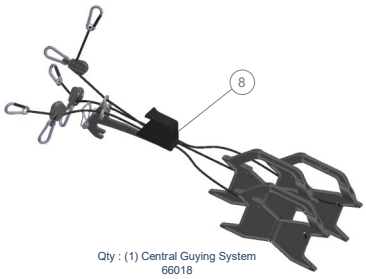
Qty : (3)Fast Tensioner
65853

Qty : (1) Radius Rope
65751-15

Qty : (1) Lifting Handle
9987420



Qty : (1) 3Kg Hammer
12296



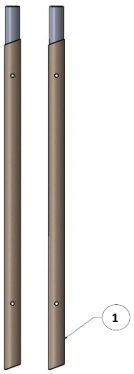
Qty : (1) Central Guying System
66018

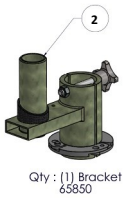
Options

Omnidirectional Antenna Mounting Kit (below top load)

The ULM 48 mast can be supplied with an optional mounting kit to enable an omnidirectional antenna to be mounted below the top load. The kit includes an antenna mounting bracket together with two glass fibre tube sections. Glass fibre sections are RF invisible so will have no effect on the performance of the lower antenna. These two sections replace the carbon composite sections in the area directly next to the antenna radiating element. The image below shows two Comrod elevated tri-band antennas, one mounted at the top of the mast, the other positioned beside the glass fibre sections.

Description	Item	Qty
Mast section (Glass Fibre Composite)	1	2
Bracket	2	1
Transportation bag	-	1





13 carbon fibre and 2 x glass fibre tube sections
(2 x glass fibre sections will be painted black to match standard carbon sections)

15 metre ULM-C 48/15-1.2 mast supporting two Comrod VHF302000TB-TRI/TB-S elevated tri-band antennas

Partnered Supplier

COMROD

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