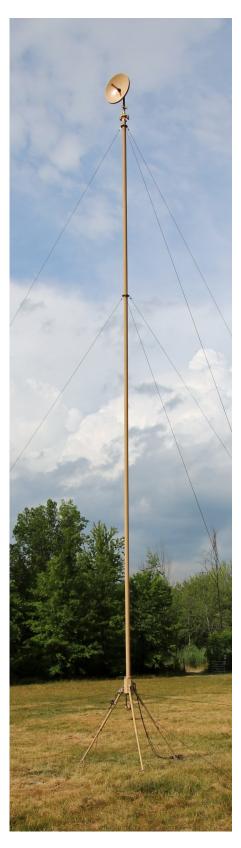
Sectional Tripod Mast Series, 10-24m (32-78ft)



15 m (50 ft) ULM Mast

Overview

- Fully deployed heights of 10, 15, 20 & 24 m (32, 49, 65 & 78 ft).
- The ULM-C 92 is a lightweight carbon composite sleeve mast capable of supporting headloads up to 80kg (176 lbs)*
- The mast comprises individual composite mast tube sections that fit together to give the desired height.
- The tripod support includes a lifting mechanism and hoist to raise each section.
- Telescopic tripod legs allow deployment on uneven ground.
- Tripod kneeling position for easy access to the top load.
- Central guying enables the guy tension to be maintained during erection of the mast. This enables the mast to be deployed safely in high winds.
- The mast is supplied with a ground mounting kit containing all the items required for field deployment.
- Particularly suited to supporting line-of-sight (LOS) antennas. Also suitable for supporting directional, omni-directional or wire antennas, optronic equipment and sensors.
- Azimuth rotation is possible from the ground to orientate directional top loads.
- Can be deployed by two operators in 20 minutes or three operators in 15 minutes (typical for 15m/49ft model)
- 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.

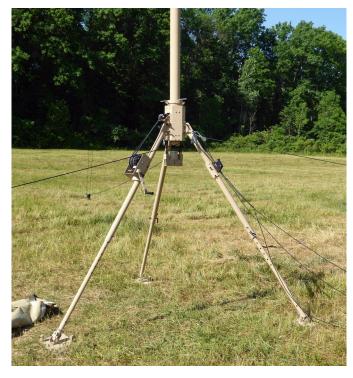


Complete mast kit packs into two man-portable bags

Mechanical Specification

Model	ULM-C 92/10-1.5	ULM-C 92/15-1.5	ULM-C 92/20-1.5	ULM-C 92/24-1.5	
Height	10m (32 ft)	15m (49 ft)	20m (65 ft)	24m (78 ft)	
Tube diameter	92mm (3.62 ins)				
Mast section working length	1264.5mm (4 ft 2 ins)				
Maximum Headload *	80kg (176 lbs) , 1m ² (10 ft ²)	40kg (88 lbs) , 1m² (10 ft²)	40kg (88 lbs) , 0.5m² (5 ft²)	40kg (88 lbs) , 0.5m² (5 ft²)	
Maximum wind speed:					
Deployment	40km/h (25 mph)				
Operation	90km/h (56 mph)				
Survival	120km/h (93 mph)				
Maximum bending deflection	<±3°	<±3°	<±3°	<±3°	
under operational wind *					
Total kit weight	84 kg (184 lbs)	94 kg (207 lbs)	120 kg (240 lbs)	130 kg (207 lbs)	
Guy Radius	8 m (26 ft)	10 m (32 ft)	14 m (46 ft)	16 m (52 ft)	
Top load interfaces available	40mm (1.57 in) spigot				
	50mm (1.97 in) spigot				
	Vee Ring Adaptor				
Temperature range	-40°C (-40 °F) to +55°C (131 °F)				
Anchoring	3 locations at 120°	3 locations at 120°	3 locations at 120°	3 locations at 120°	
Guying - 2 levels	Lower level - Kevlar Rope	Lower level - Kevlar Rope	Lower level - Kevlar Rope	Lower level - Kevlar Rope	
	Upper level - Kevlar rope	Upper level - Kevlar rope	Upper levels - Kevlar rope	Upper levels - Kevlar rope	
Standard colour	IR-NATO 24x5 Army Green				
	Other colours available on request				
Number of operators	2 or 3	2 or 3	2 or 3	2 or 3	
Set-up time	10 mins (3 operators)	15 mins (3 operators)	20 mins (3 operators)	25 mins (3 operators)	
	15 mins (2 operators)	20 mins (2 operators)	25 mins (2 operators)	30 mins (2 operators)	

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



Tripod assembly (shown with optional winch assembly)



Multiple headload mounting options

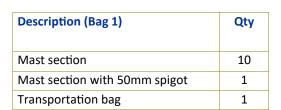
Typical Kit Contents (15m/49ft model)

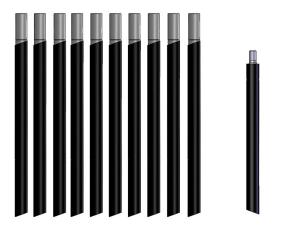


Bag 1

Qty :(2) Transportation bag (1500x370x290) Uw : 5.6kg (12.34lbs)

Bag 2





Qty: (10) ULM Mast section

Qty: (1) Top section Ø50mm Uw: 3kg (6.61lbs)

Description (Bag 2)	Qty
Tripod assembly with lifting system	1
Guy stakes 60 cm	6
Lower guy cable	3
Guying collar	2
Anchor stakes	6
Cross pin	2
Hammer 3kg	1
Cable strap	4
Radius rope	1
Safety cable for kneeling position	2
Transportation bag	1











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Qty: (4) Cable strap Uw: 0.01kg (0.02lbs)

Qty : (2) Crosspin Uw : 0.25kg (0.55lbs)

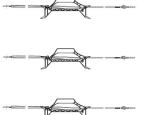




Qty: (2) Guying collar Uw: 0.97kg (2.15lbs)



Qty : (1) Radius Rope 10m (32ft) Uw : 0.8kg (1.76lbs)



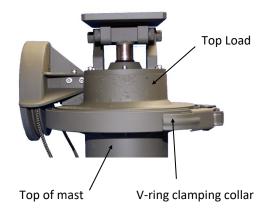
Qty : (3) Lower guy cable Uw : 0.8kg (1.76lbs)

Top load interface (top of mast)

The top of the mast can be supplied with a 40mm or 50mm spigot or V-ring collar. The V-ring collar can be adapted to suit many different headloads. The V-ring provides reliable, strong and tactical fixation of many available adapters.



V-ring flange on top of mast

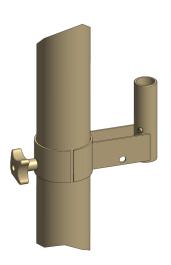


Optional Accessories



Winch Assembly

An optional winch assembly allows heavier top loads to be deployed with reduced effort.



Bracket for lower antenna

A lower bracket is available with a 40mm or 50mm spigot. It is designed to fix a lower antenna on a ULM mast section.

Manual Tilters and Rotator

Manual rotators and tilters allow orientation of the antenna in azimuth over 360° and elevation over $\pm 15^\circ$. The Comrod range of rotators and tilters are particularly designed for tactical line of sight (LOS) antenna systems.

All rotators and tilters are operated from the ground using ropes.



Manual Tilter



Manual Rotator