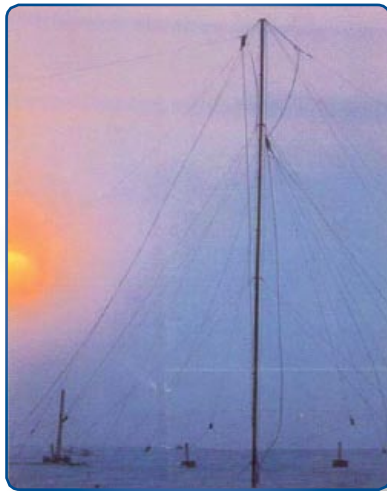




C&S ANTENNAS, INC.

CARRYMAST™ **Manportable Telescopic Masts**



Over 4,000 Units in Service Worldwide

C&S Antennas, Inc.
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Combat-Proven Versatility

Wide Range of Models in Service Supporting Antennas from HF to Microwave

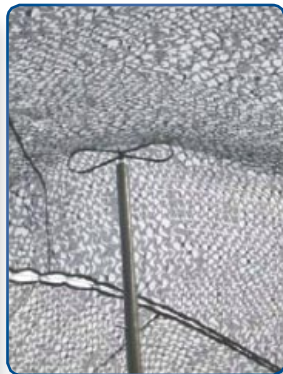


These tough, composite push-up masts can be erected by a two-person team in under 10 minutes.

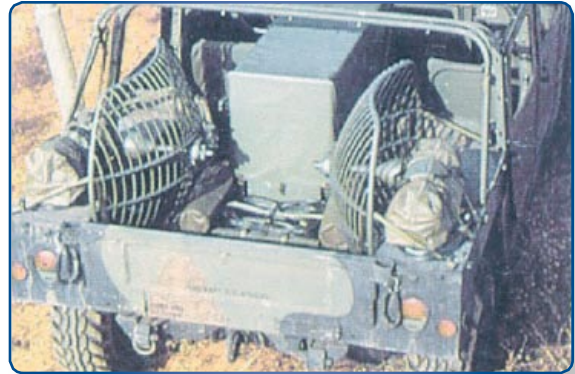
- Rapid Deployment
- Low Weight
- One or two-man operation
- Robust and reliable
- Proven in action
- Simple operation
- No pumps or winches necessary
- Compact stowed size
- Low radar cross-section
- Ice resistant
- Simple battlefield repair



All accessories are stored in a heavy-duty rot-proof transit bag. Guy ropes are supplied on reels to prevent rope tangles and to reduce deployment and teardown time.



As an option, the composite push-up masts can also be used as CAMO POLE tent pole supports.



All versions of the CARRYMAST™ fit in most military vehicles with room to spare.

Rapid Deployment is Built into Design

C&S Antennas, Inc. has pioneered the use of advanced materials such as carbon fiber and Kevlar*. Used extensively in the CARRYMAST™ series, these materials provide a unique combination of exceptional strength, low weight and rigidity. Capable of withstanding hurricane-force winds, C&S Antenna's tactical antenna masts are half the weight of obsolescent aluminum equipment and can be carried by one person and erected in the field in minutes.

The CARRYMAST™ series have been developed and perfected over an extended period with the help of frequent inputs from seasoned tactical communicators. The results are masts incorporating ingenious ideas that ensure quick and easy deployment, even under the severest weather conditions or at night. In addition to the standard masts, a variant with shortened tube sections to be stowed in restricted space is available. Please refer to the CTM15S on page 4.

The CARRYMAST™ series are Non-Development Items (NDI) and have been environmentally tested to the stringent conditions of US MIL-STD-810C. Intended for worldwide deployment, the masts are capable of withstanding the severest extremes - Arctic (North Pole Expedition in temperatures down to -54° F), tropical rainforests, and dry / hot desert conditions.



Color-coded guy ropes and associated attachment points make deployment easy and straightforward.



The unique CARRYMAST™ handle has several useful functions:

- Positioned at the center of gravity
- Cleat for securing antenna halyards
- Built-in compass
- Built-in spirit level



Guy ropes are supplied with neat self-locking tensioners. The ropes are manufactured from Kevlar*, a strong aramid fibre having exceptional "non-stretch" properties.



Built-in Spirit Level
Compass for accurate directional positioning.



The 50-ft (15 meter) version of CARRYMAST™ is in service with US Marine Corps programs. It is designed for use with C&S Antenna's TRIFFIDS radio relay antenna which are also in service with various US Army programs.

* Kevlar is a registered trademark of E.I. du Pont de Nemours & Company.

Antenna Specifications and Accessories

General Specifications

Model Number:	CTM9	CTM10	CTM12	CTM15
Height Extended:	29 ft 7 in (9 m)	33 ft 6 in (10.2 m)	38 ft 3 in (11.656 m)	49 ft 2 in (15 m)
Transit Length:	5 ft 8 in (1.73 m)	5 ft 8 in (1.73 m)	5 ft 8 in (1.73 m)	5 ft 8 in (1.73 m)**
Deployment Time: (one man)	6 min	7.5 min	8 min	12 min
Weight: (mast body)	21 lb (9.5 kg)	23 lb (10.5 kg)	24 lb (10.8 kg)	30 lb (13.6 kg)
Weight: (deployment accessories)	19 lb (8.6 kg)	19 lb (8.6 kg)	19 lb (8.6 kg)	42 lb (19.1 kg)
Max Head Load:	33 lb (15 kg)	33 lb (15 kg)	33 lb (15 kg)	33 lb (15 kg)
Max Wind Speed:	90 mph (145 km/h)	90 mph (145 km/h)	90 mph (145 km/h)	90 mph (145 km/h)
Low Temperature: (operational)	-50° F (-45° C)	-50° F (-45° C)	-50° F (-45° C)	-50° F (-45° C)
Height Temperature: (operational)	+160° F (+71° C)	+160° F (+71° C)	+160° F (+71° C)	+160° F (+71° C)

** The CTM5S is a variant of the CTM15 that has had the tubes deliberately shortened so that the stowed height can be accommodated in a particular application. This provides an erected height of 33 ft (10 m).

CARRYMAST Accessories

A wide range of accessories and adaptors to increase the versatility of the CARRYMAST™ range is available. Please call us to discuss your application.



Integral Tripod

- Used for temporary roof mounting
- Folds along mast body



T-Bar Adaptor

- Enables two antennas to be mounted at mast head simultaneously
- Straps to mast body for transportation



Tilter / Positioner

- Used to provide boresight stabilization and elevation tilt of narrowbeam antennas



Half-Way Up Adaptor

- Side mounting for antenna

Not Shown: • Vehicle mounting brackets • Field repair kit • Halyards • Permafrost/rock/ice anchors • Standard and heavy duty anchors • Various antenna adaptors • Heavy-duty transit bag • Custom antenna adaptors to suit requirements