



Overview

The UTHD is a durable instrument tower that can be used in a variety of monitoring applications. The UTHD is an aluminum, corrosion-resistant instrumentation tower with four tower height options and high wind load ratings at user-selectable tower heights.

Data logger and power supply enclosures, solar panel(s), crossarms, and other meteorological instrumentation mount to the tower legs. An optional Sun Tracker Mount provides a sturdy platform at the top of the UTHD for permanent deployment of a precision Sun Tracker for advanced solar resource assessment and power performance monitoring. This optional mount works with Sun Trackers such as Kipp & Zonen (Solys2) or EKO Instruments (STR-21G or STR-22G).

Benefits and Features

- ▶ User-selectable height options
- ▶ Sturdy, long-term instrument mount with robust mounting option for industry standard Sun Trackers
- ▶ Higher wind load rating than the UT10, UT20, or UT30 towers
- ▶ Wider legs to enable mounting standard Campbell Scientific mounting equipment
- ▶ Top portion ends without traditional triangle connections and a mast

Specifications

Material	Hardened drawn 6063-T832 aluminum
Required Concrete Pad Dimensions	91 x 91 x 122 cm (36 x 36 x 48 in.) for B18 Concrete Mounting Base
	Concrete pad requirements assume heavy soil; light, shifting, or sandy soils require a larger concrete pad.

-NOTE- Allowable wind gust specifications were calculated with the following: one enclosure, two crossarms mounted with two CM210 crossarm mounts each (one crossarm with a wind monitor, the other crossarm with two pyranometers), and B-18 anchors used to secure the stand to the ground. In addition, the

concrete footing has a 91.4 cm (36 in.) length, a 91.4 cm (36 in.) width, and a 122 cm (48 in.) depth.

Allowable Wind Gusts at 220.98 cm (87 in.)	239.9 kph (149 mph)
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Allowable Wind Gusts at 175.26 cm (69 in.)	260.7 kph (162 mph)
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Allowable Wind Gusts at 129.54 cm (51 in.)	280.0 kph (174 mph)
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Allowable Wind Gusts at 96.52 cm (38 in.)	Not rated
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Leg Spacing	43.2 cm (17.0 in.)
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Height	User-selectable
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Weight	4.16 kg (9.18 lb)
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For comprehensive details, visit: www.campbellsci.com/uthd 



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