



## Overview

The CM106BK Tripod Kit contains the hardware necessary to construct a 3 m (10 ft) tripod. It is designed to save shipping cost by having the customer obtain steel pipe and a grounding rod locally. The kit contains the parts to assemble

the pipes into a tripod, including feet, joints, bolts and nuts, lightning rod, and other parts. The customer obtains lengths of steel pipe and a copper ground rod from a local supply house. The CM106BK is primarily intended for overseas shipments.

## Detailed Description

The following parts are included with the CM106BK kit. The quantity of each part is indicated in parentheses.

- ▶ 29762 Tripod Foot (3)
- ▶ 29763 Leg Clamp Base (3)
- ▶ 29764 Tripod Body (3)
- ▶ 19308 Spacer (6)
- ▶ 5449 Ground Lug (2)
- ▶ 23 Nut (6)
- ▶ 19102 5/16-18 x .75 Screw (3)
- ▶ 30253 5/16-18 x 1.00 Screw (3)
- ▶ 4365 5/16 Flat Washer (3)
- ▶ 29844 Leg Clamp (3)
- ▶ 29845 Leg Clamp with Weld Nut (3)
- ▶ 850 Lightning Rod (1)
- ▶ 17589 Lightning Rod Clamp Assembly (1)
- ▶ 19175 5/16-18 x 2.25 Screw (6)
- ▶ 18126 5/16-18 Nut (6)
- ▶ 4366 5/16 Lock Washer (6)
- ▶ 19102 5/16-18 x .750 Screw (3)
- ▶ 27002 5/16-18 x 2.00 Screw (12)
- ▶ 4904 5/16-18 Lock Nut (12)

Customers need to purchase the following pipes:

- ▶ Mast—(1) DN 40 mm (1 1/2 in. NPS) steel pipe with 181.61 cm (71.5 in) length
- ▶ Legs—(3) DN 25 mm (1 in. NPS) steel pipes with 179.07 cm (70.5 in) length
- ▶ Leg Braces—(3) DN 25 mm (1 in. NPS) steel pipes with 119.38 cm (47 in) length

## Specifications

Vertical Load Limit	200 kg (440 lb)
Leveling Adjustment	Slide collars on each leg adjust individually.
Maximum Slope Angle	45° or 100% grade
Measurement Height	<ul style="list-style-type: none"> <li>› 3 to 3.7 m (10 to 12.3 ft) with upper mast extended</li> <li>› 2.1 to 2.8 m (7 to 9.3 ft) with upper mast retracted</li> </ul>
Leg Base	11.43 x 13.97 cm (4.5 x 5.5 in.) with four 1.58 cm (0.62 in.) holes for stakes
Main Lower Mast Outer Diameter	48 mm (1.90 in.)
Retractable Upper Mast Outer Diameter	44 mm (1.74 in.)
Base Diameter	2.7 to 3.5 m (8.7 to 11.5 ft)
Weight	24.5 kg (54 lb) with mast

### Maximum Allowable Sustained Wind

-NOTE-	<p>Allowable sustained wind and wind gust values assume the following:</p> <ul style="list-style-type: none"> <li>› Sensors (effective area = 1.4 ft<sup>2</sup>) at top of mast</li> <li>› Solar panel (10.5 in. x 16.5 in.) at mast base</li> <li>› Enclosure (14 in. x 16 in.) mounted to leg</li> </ul>
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- › Guy wires attached to mast at 3.8 ft above tripod body
- › Adequate ground anchors (stakes alone may not resist foot vertical pullout force)

Mast Extended	<ul style="list-style-type: none"> <li>› 28 m/s (62 mph) unguyed</li> <li>› 45 m/s (102 mph) guyed</li> </ul>
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Mast Retracted	<ul style="list-style-type: none"> <li>› 36 m/s (80 mph) unguyed</li> <li>› 55 m/s (122 mph) guyed</li> </ul>
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### Maximum Allowable Wind Gust

-NOTE-	<p>Allowable sustained wind and wind gust values assume the following:</p> <ul style="list-style-type: none"> <li>› Sensors (effective area = 1.4 ft<sup>2</sup>) at top of mast</li> <li>› Solar panel (10.5 in. x 16.5 in.) at mast base</li> <li>› Enclosure (14 in. x 16 in.) mounted to leg</li> <li>› Guy wires attached to mast at 3.8 ft above tripod body</li> <li>› Adequate ground anchors (stakes alone may not resist foot vertical pullout force)</li> </ul>
Mast Extended	<ul style="list-style-type: none"> <li>› 36 m/s (81 mph) unguyed</li> <li>› 59 m/s (132 mph) guyed</li> </ul>
Mast Retracted	<ul style="list-style-type: none"> <li>› 71 m/s (159 mph) guyed</li> <li>› 46 m/s (104 mph) unguyed</li> </ul>

For comprehensive details, visit: [www.campbellsci.com/cm106bk](http://www.campbellsci.com/cm106bk)



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