

ABSOLUTE EMC Tripod



The **Absolute EMC Tripod** is designed specifically for EMC testing applications, providing a **cost-effective, non-metallic solution** ideal for holding **antennas, RF field probes, cameras, and cables** during testing. Its construction using **low permittivity materials** ensures minimal interference with the electromagnetic field under measurement. With a focus on versatility and stability, the EMC Tripod is fully adjustable, easy to assemble, and straightforward to store when not in use.

Key Features:

- Non-Metallic Design:** Constructed with **non-metallic materials**, with the exception of the antenna connection screw. This ensures that the tripod does not contribute any undesired reflections or interference, which is critical for reliable EMC testing.
- 3D-Printed PLA & Hardwood Construction:** The tripod features parts made from **3D-printed PLA plastic** along with **hardwood dowels** to provide a sturdy, lightweight structure. The **1-inch hardwood dowels** are fully adjustable up to **3 feet**, allowing for a customizable height depending on your testing needs. For users requiring added durability, **1" fiberglass dowels** are also available as an option.
- Height Adjustability:** The **Absolute EMC Tripod** provides a **height range from 37 inches to 68 inches**, using a **1-inch center mast**. This adjustability makes it suitable for a variety of EMC testing setups, accommodating different antenna types and equipment configurations.
- Stability:** Stability is a key feature of the tripod. It comes with **leveling feet** that help in adjusting to uneven surfaces, ensuring that your equipment is securely positioned. For additional support, an optional **weight ballast** is available to provide added stability when working with heavier equipment or in challenging environments.

Lifetime Warranty

All **Absolute EMC 3D-printed accessories** come with a **lifetime warranty**. If any plastic component is damaged, it will be replaced **free of charge**. We encourage customers to provide feedback on any failures so we can continually improve our future designs.

Specifications:

<p>Material: Plastic PLA (Polylactic acid) Hardwood Dowels</p> <p>Loading weight: ~10-20 lb. * Dependent on the dowel length used and height adjustment</p> <p>Color: Green and purple Other colors are available on request</p> <p>Size with 3-foot dowels</p> <p>Height: 37" – 68" (94 – 172 cm)</p> <p>Width: 36.6" (93 cm)</p> <p>Weight: 3.7 lb. (1.68 kg)</p>	<p>Relative Permittivity: $\epsilon_r = \sim 2.0 - 3$</p> <p>Antenna Mounting: ¼" – 20 screw thread (choose one) 5/16" – 18 screw thread 3/8" – 16 screw thread</p>
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*Use good engineering judgment for weight loading. It is not designed for heavy antennas/loads or where the center of gravity is overhanging from the center. A weight ballast should be used to weigh down the tripod for larger antennas; therefore, it is not top-heavy. It is easy to hang a bag with weighted materials (woodblocks, sand, ream of paper, bricks, rocks) off of the center tripod section. Please refer to the manual.








Tripod Kit:





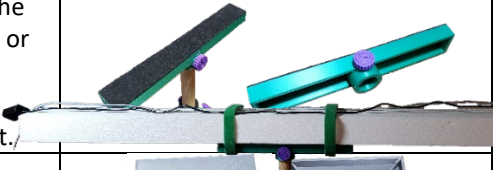
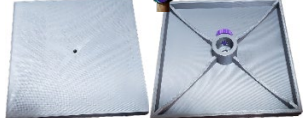


- (1x) tripod section,
- (1x) tripod head,
- (3x) tripod leveling feet,
- (1x) Leveling Bubble,
- (4x) 1" x 3' wood dowels

Tripod Deluxe Kit:

- (1x) tripod section,
- (3x) tripod head, (includes 1 of each)
- (3x) tripod leveling feet,
- (1x) Leveling Bubble,
- (4x) 1" x 3' wood dowels
- **TP-Ball Head, TP- Cable Support, EMC EPS Block 1M, TP-Bag**

Individual Items:

<p>Tripod Section</p>	<p>Included in Tripod Kit. The main section of the tripod</p>	
<p>Tripod Head</p>	<p>Included in Tripod Kit. Select a size ($\frac{1}{4}$" – 20, $\frac{5}{16}$" – 18, $\frac{3}{8}$" – 16)</p>	
<p>Tripod Leveling Feet</p>	<p>Included in Tripod Kit. Feet are add leveling capability +3/8" adjustment and non-skid pads (3 needed)</p>	
<p>Tripod Leveling Feet B (Optional)</p>	<p>Alternative feet with additional leveling allow +2" adjustment and non-skid pads (3 needed).</p>	
<p>TP-Leveling Bubble</p>	<p>It is now included in Tripod Kit. It is used to see the level of the tripod. Clips on to 1" center dowel and is rotated to any side for easy viewing.</p>	
<p>TP-Weight Ballast</p>	<p>A bag is included with your order. Nonmetallic weighted materials can be used to fill the bag to make the base sturdier.</p>	
<p>TP-Screw</p>	<p>A universal screw used across various Absolute EMC products, including the EMC Tripod, EMC Monopole, antenna adaptors, and other accessories.</p>	

Screw Wrench	The screw wrench provides extra torque for the TP-Screw , ensuring a tighter fit when needed. This item is provided free to all Absolute EMC tripod and clamp users. Please contact us for additional units.	
TP-22mm Antenna	Antenna adaptor for 22mm antenna tube mount	
TP-Weight Hook	Hook to be added to the center mast to add the ability to hang a weight to ballast the tripod if needed for different loads	
TP-Ball Head (Optional)	Ideal for Camera positioning. Full rotation to 90° polarization ¼" – 20 thread screw. For loads less than 2lb. The arm can be positioned after the head is screwed to the camera, allowing it to be placed to the rear.	
TP-Cable Support (Optional) EMC EPS Block 1M	It can be used to support cables coming out of the antenna or EUT, to keep them up from the floor or to reduce strain on connectors. 10-¼" x 1-½" (28 x 3.8 cm) Use with 1 meter EPS support for longer support.	
TP-Item Tray (Optional)	A tray to hold items on top of the tripod. 8" x 8" (20 x 20 cm)	
TP-Bag (Optional)	Travel bag for storing and carrying the tripod size: 39" x 7"	
TP-Bag Deluxe (Optional)	Wheeled travel bag for storing and carrying the tripod and accessories 40" long (36"x10"x12" internal) large enough to hold additional EMI test gear and accessories. Padded with Velcro partitions	
Other?	If you have an idea for an accessory to make the tripod more versatile, please let us know.	

Applications:

- **Antenna Support:** Ideal for holding antennas during **EMC emissions** and immunity testing, ensuring stable and repeatable positioning.
- **RF Field Probes:** Suitable for supporting **RF field probes** during field strength measurements, allowing for precise alignment.
- **Camera Mounting:** With the addition of the **TP-Ball Head**, the tripod is an excellent option for mounting cameras to document testing or capture visual data.
- **Cable Management:** The **TP-Cable Support** helps manage and organize cables during testing, reducing clutter and minimizing the chance of connector damage.

Why Choose the Absolute EMC Tripod?

The Absolute EMC Tripod offers a practical, easy-to-use solution that meets the specific needs of EMC testing environments. Its non-metallic construction ensures that there are no unwanted reflections or interferences, which is crucial for maintaining

accurate test results. The lightweight yet sturdy design, coupled with customizable height and multiple mounting options, provides unmatched flexibility for a wide range of testing applications. Whether you need to mount antennas, probes, or cameras, the Absolute EMC Tripod is the perfect accessory to simplify your testing setup.

