**Quick-Setup Tripod**

**QST6**

**ASSEMBLY GUIDE**

**Document Part Number:** 35358  
**Revision Date:** June 2019

**Important Note:** This Assembly Guide is meant to be a general reference to give the installer an overview of the steps required to make this tripod operational.

**Caution!!**

- Ensure structural integrity during setup and weather extremes to minimize the chance of damaging the tripod or instruments. Read all instructions carefully. Once the tripod is in full vertical position, securely fasten it to the ground using ground spikes or another method suitable for the soil at the installation site.

- Maintain a distance of at least one-and-one-half times structure height, 20 feet, or the distance required by applicable law, whichever is greater, between overhead utility lines and the structure (tripod, attachments, or tools).

- Read all applicable instructions carefully and understand procedures thoroughly before beginning work.

**Physical Deployment**

Remove the QST6 from the packaging. Ensure all components are present before assembling the tripod.

### Tripod Assembly

1. Loosen the black tension knob securing one of the tripod legs.

2. Slide the leg upward to free the notch on the end of the leg from the pin at the bottom of the tripod frame.

3. Rotate the leg down until the notch on the end of the leg lines up with the removable pin in the tripod frame. Slide the leg onto the pin until the notch is fully engaged with the pin.

**Table 1: Leg position dimensions**

<table>
<thead>
<tr>
<th>Hole</th>
<th>Height</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>179.5 cm (70.7 in)</td>
<td>103.0 cm (40.5 in)</td>
</tr>
<tr>
<td>B</td>
<td>174.5 cm (68.7 in)</td>
<td>112.5 cm (44.3 in)</td>
</tr>
<tr>
<td>C</td>
<td>170.3 cm (67.1 in)</td>
<td>122.4 cm (48.6 in)</td>
</tr>
<tr>
<td>D</td>
<td>164.4 cm (64.7 in)</td>
<td>130.6 cm (51.4 in)</td>
</tr>
<tr>
<td>E</td>
<td>158.7 cm (62.5 in)</td>
<td>139.0 cm (54.7 in)</td>
</tr>
<tr>
<td>F</td>
<td>145.1 cm (57.1 in)</td>
<td>148.6 cm (58.5 in)</td>
</tr>
</tbody>
</table>

**Outer Diameter (mast): 4.8 cm (1.9 in)**  
**Pipe Size (mast): 1.5 in. IPS sch 10**  
**Leg Length: 66.0 cm (26 in)**  
**Folded size: 71.1 x 20.3 x 20.3 cm (28 x 8 x 8 in)**  
**Weight: 4 kg (9 lb)**

**Ratings**

- Tip over/pull out of screw earth anchors: 105 kph (65 mph) for pin hole F; 74 kph (46 mph) for pin hole A
- Maximum vertical load (excluding guy wire load): 22.7 kg (50 lb)
- Guy wire tension: Pull ~14 kg (30 lb) on ropes, equals 28 kg (60 lb) tension
- Maximum sustained wind load (guyed or unguyed): 97 kph (60 mph). The guy wires add stability to the mast (less flexing in high winds).

**Required tools**

- A hammer is required to drive the ground rod into the ground.
- A screwdriver is needed to attach the ground wire to the lightning rod bracket.
- A 1/2 inch open-end wrench or adjustable wrench is needed to secure the lightning rod to the mast.
4. Tighten the black tension knob to secure the leg in the new position. Repeat for the other two legs.

5. A small amount of anti-seize lubricant is provided to apply to the mast threads. Place the mast extension over the mast. Turn the extension clockwise to thread it onto the mast. If installing an optional second mast extension, install the extension without the top collar first, then thread the second extension onto the first.

6. Connect the clip secured to one end of the guy line to one of the fins in the guy ring.

7. Latch the buckle into the knotted hole near the top end of the guy line.

8. Pull the free end of the guy line downward to increase tension on the line.

9. Connect the guy line to a corresponding foot on the tripod. Attach the clip to the lower end of the tripod leg, routing the clip through the notch in the end of the leg, then back up and through slot in the leg.

10. Once all three guy lines are in place, increase tension on the guy lines to secure the mast in place with equal tension on all three lines.

1. Place the tip of an anchor through the hole in the top of the foot. Turn the handle clockwise, applying downward pressure, until the anchor fully secures the tripod foot to the ground.

2. Some soil types may require additional anchors or longer stakes to secure the tripod.

3. Unpackage the guy kit and separate the three guy lines.

4. Unscrew the top collar from the QST6. Holes are provided as points to insert a screwdriver for additional leverage, if needed. If a second mast extension is installed, unscrew the top extension from the bottom extension instead of removing the top collar.

5. Place the guy ring, with the fins angled down, over the top of the mast extension. Align the holes in the fins with the tripod legs.

6. Reattach the top collar (or second mast extension).

7. Place the guy ring, with the fins angled down, over the top of the mast extension. Align the holes in the fins with the tripod legs.

8. Secure the other end of the 4 AWG copper ground wire in the open hole in the lightning rod clamp. Fully tighten the set screw to secure the wire.

9. Insert the flat end of the lightning rod into one of the two holes on the lightning rod clamp. Tighten the set screw for that hole to secure the lightning rod.

10. Place the lightning rod over the top collar, sliding it on until there is approximately 1.25 cm (1/2 in) of clearance between the top of the U-bolt and top of the collar. Tighten the two bolts so there is an equal length of U-bolt visible at each end.

Table 1 shows the height and diameter of the tripod at each pin setting.

When the tripod is on level ground, each leg will use the same hole to keep the tripod level. When the tripod is on a hill, point one leg directly downhill and move the pins as needed to bring the tripod into vertical alignment.