

## Setting up a Freestanding Tripod Tower

This document provides the procedural steps to prepare and set-up a Kairos Autonomi Freestanding Tripod Tower.

### Mast Preparation

The easiest mast preparation is having a single pole with an outer diameter (OD) of 3.5"  $\pm 0.015$ " of the desired mast height (not to exceed 30 feet).

Instead of a single pole mast, two poles may be connected into a single mast. The length of the two poles must be the desired mast height plus 24 inches for connection (not to exceed 32 feet total), where the first pole's OD is 3.5" and the second pole's inner diameter (ID) is equal to the first pole's OD. For example, a standard 3.5" OD pipe with an ID of 3.0" and a length of 9 feet could be paired with a second 3.0" OD 9 foot pipe, to make a 16 foot mast.

If using a two pole mast, connect the poles, as follows:

1. Slide the top pole (i.e., smaller OD) into the bottom pole until there is a 12" overlap.
2. Brace the two poles so that they will not roll while being drilled into.
3. Using a 9/32" or 11mm drill bit, drill a hole completely through both pipes at approximately the 2.5" and 9.5" overlap points (see images right and below).
4. Secure both through-holes with:
  - 0.25" or 10mm washer
  - 4" 3/8 x 20 or 100mm 10mm x 1.25 bolt
  - 0.25" or 10mm washer
  - 0.25" or 10mm nut.



## Tripod Preparation

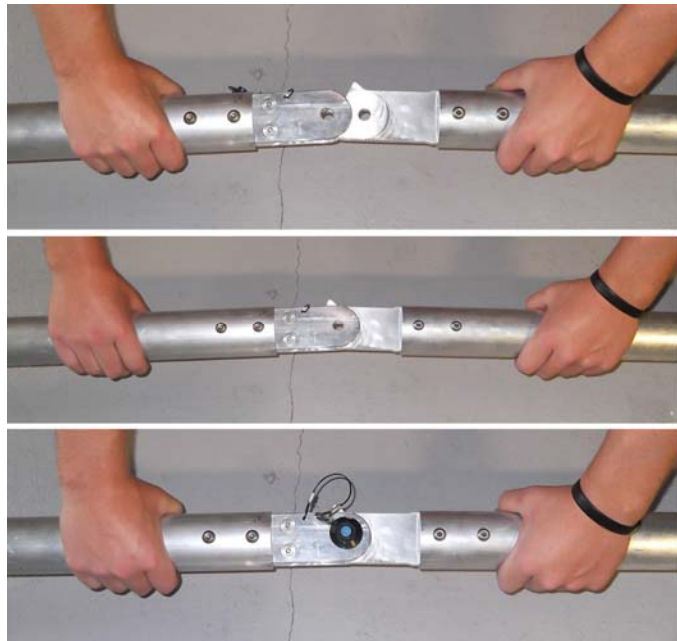
1. Remove the tripod from the packaging.



2. Separate the two halves of the tripod.



3. For each leg pair, slide the tab of the base into the corresponding leg's receptacle.



4. Repeat for all three legs.



### Standing and Securing Tower

Ensure the pole mast and tripod are prepared, as previously detailed, prior to standing up the tower. If desired, up to a 3" hole may be dug where the pole will be positioned.

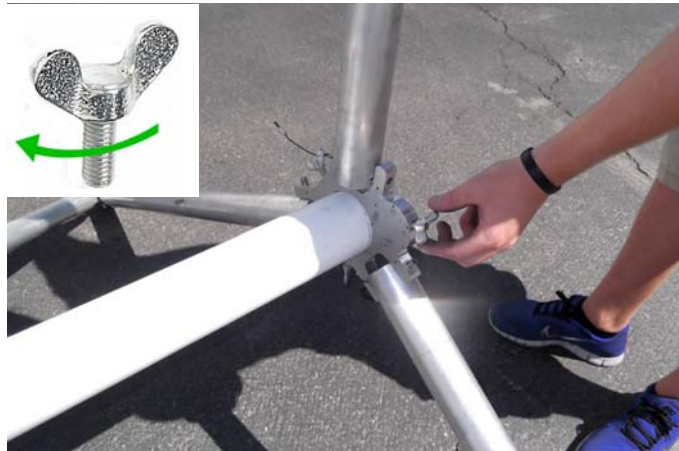
1. Lift up one of the legs. This will cause the tripod to open.



2. Continue to lift the leg until the tripod is fully open. Slide the 3.5" OD tube into the tripod's top through-hole.
3. Continue to slide the 3.5" OD tube into the tripod's base through-hole.



4. Manually tighten all six (6) wing bolts (3 on the base and 3 on the top).



5. Raise the tower and place on final mounting location. This may take more than two people.
6. Slightly loosen all six (6) wing bolts.
7. Adjust mast and tripod legs until mast is properly positioned and completely level. If putting mast into ground hole, do so at this time. Do NOT secure mast with concrete.



8. With mast properly positioned and completely level, manually tighten all six (6) wing bolts.
9. If needed, additional bolts can be run through the mast for guywires (not included). Guywires can be connected to permanent structures or temporary weights (e.g. sandbags).

