



# **iOptron<sup>®</sup> MiniPier Instruction Manual**

Product #8032

## MiniPier 8032

iOptron® MiniPier is designed for an iOptron GOTO mount when used under balanced condition. It has a 150mm mounting plate, which will fit onto an iOptron CEM70, CEM60, iEQ45, AZ Mount Pro, or MiniTower/MiniTower Pro tripod, as well as a Tri-Pier or Tri-Pier 360.

### Parts include:

The actual parts included in the package depend on the mount type:

- 1x MiniPier body
- 2x M8 hex head screws for CEM/iEQ45 tripod, and Tri-Pier/Tri-Pier 360 mounting
- 3x M10 hex head screws for AZ Mount Pro/MiniTower tripod and Tri-Pier/Tri-Pier 360 mounting
- 1x center stud installed for all mount except AZ Mount Pro/MiniTower
- 1x M12 Center Bolt with turning lever for AZ Mount Pro/MiniTower/MiniTower Pro

### Supported Mount:

- CEM70
- CEM60
- iEQ45/45Pro
- AZ Mount Pro
- MiniTower/MiniTower Pro
- iEQ30/iEQ30Pro (won't fit on a iEQ30 tripod, may limit low latitude application)
- CEM40/GEM45 (won't fit on a CEM40/GEM45 tripod, may limit low latitude application)
- Will fit HEM44/HAE43/HAE69, but not recommended. The Strain Wave Gear mount is operated under non-balanced condition. #8043 is recommended.

### Specifications:

Pier diameter: 5.7" (144mm) with 6" (150mm) Flange plates  
Pier height: 8" (203mm)

## MiniPier for iEQ45/iEQ30/CEM60

The assemble example shown here is for installing a MiniPier onto an iEQ45/CEM60 tripod. For an iEQ30 mount, an iEQ45/MT/MTP tripod or a pier/tri-pier is needed.

1. Extend the tripod legs and adjust the height of the tripod. Secure the tripod. Remember that the MiniPier will add 8 inch in height. Remove the alignment peg from the iEQ45 tripod head.
2. Release three locking screws located at the bottom of the MiniPier body. Put the Base Flange onto the tripod head. Using two M8 hex head screws to secure the base flange on to the iEQ45 tripod.



3. Put the MiniPier body onto the Base Flange and secure it using three locking screws.



4. Final adjust the tripod height and level the tripod with MiniPier before mounting the iEQ45 mount.

**Example: an iEQ45 mount on a MiniPier with an iEQ45 tripod**



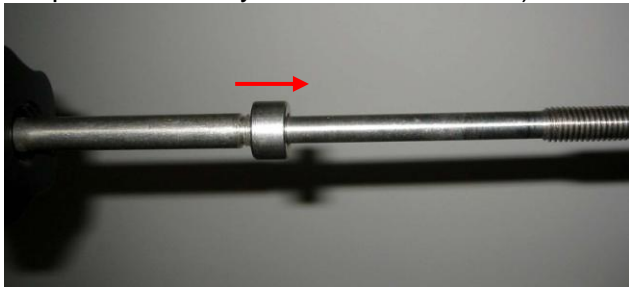
**Example: an iEQ30 mount on a MiniPier with an iEQ45 tripod**



## Mini Pier for AZMP/MT/MT2/MTP

The assemble example shown here is to installing a MiniPier onto a 1.5 inch MiniTower tripod. The procedure will be similar for installing a MiniPier onto a 2 inch MiniTower Pro/AZMP tripod.

1. Extend the tripod legs and adjust the height of the tripod. Remember that the MiniPier will add 8 inch in height.
2. Unthread and remove the stainless steel nut from MT tripod rod (keep it in a safe place. You may need it in the future.)



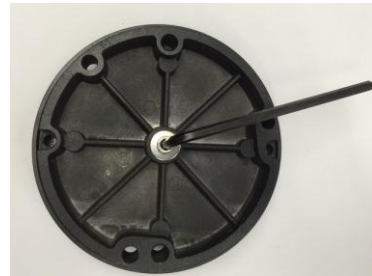
3. Thread the tripod rod all the way up into the threaded hole on the tripod head and tighten it. Lock the tripod using tripod spreader and tripod lock.



4. Release three locking screws located at the bottom of the MiniPier body. Put the Base Flange onto the tripod head. Using three M10 hex head screws to secure the base flange.



5. Remove the center stud from the top flange by releasing the locking screw from the other side.



6. Insert the MiniTower Securing Bolt through the hole on the top mounting flange. Install the Turning Lever.



7. Put the MiniPier body onto the Base Flange and secure it using three locking screws.



8. Final adjust the tripod height and level the tripod with MiniPier before mounting the MiniTower mount.
9. Install 3 MiniTower level adjustment screws and threaded in about half of the threads. Put the MiniTower on to it. Level it. Thread the MiniTower Securing Bolt into the MiniTower and tighten it. Make sure the mount is leveled while rotating the mount.

**Example: A MiniTower on a MiniPier with a MiniTower tripod**

