iOptron® Pier
Instruction Manual

Product #8030, #8033

iOptron® Pier is designed for iOptron GOTO mounts, which includes iEQ45, iEQ30, MiniTower, MiniTower II, or MiniTower Pro mount.

Parts included[1]:

1. 1x Pier Tube
2. 1x Pier Base with three (3) Pier Legs preinstalled
3. iEQ45 Center Stud and Alignment Peg (preinstalled)
4. 1x M12 Center Bolt with turning lever for MiniTower/MiniTower Pro mounting
5. 1x iEQ30 Alignment Peg

Specifications:

#8030 48 inch tall pier:
- Pier diameter: 5.7" (144mm) with 6" (150mm) Flange plates
- Pier height: 40" (1016mm)
- Standing height: 48" (1220 mm)
- Leg length: 22.5" (570mm)
- Net weight: 25 lbs (11.3 kg)
- Payload: 132 lbs (60kg)

#8033 42 inch tall pier:
- Pier diameter: 5.7" (144mm) with 6" (150mm) Flange plates
- Pier height: 34" (840mm)
- Standing height: 42" (1066mm)
- Leg length: 22.5" (570mm)
- Net weight: 23 lbs (10.4 kg)
- Payload: 132 lbs (60kg)

Pier Setup:

iOptron pier comes in a single box. For #8030 (48" pier), all the parts are stored inside the pier tube, as shown in Fig.1. For #8033 (42" pier), three (3) poll rods may slide into the pier tube, but not as secure as #8030.

Figure 1

Unthread the Pier Locking Screw (***This screw is only used for pier storage***). Separate the Pier Base with Legs from the Pier Tube. Remove the Pull Rods from inside the pier.
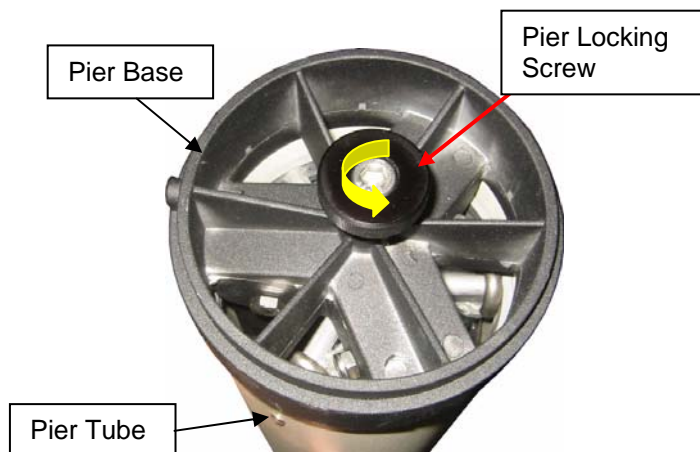
Figure 2

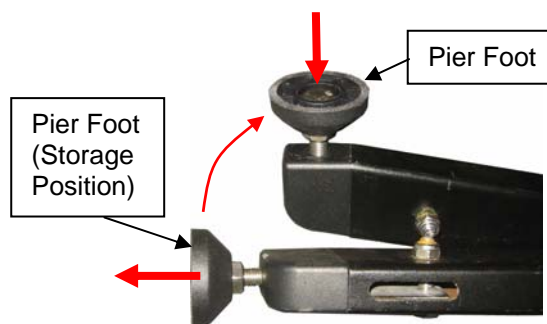**Figure 3**

Move the Pier Foot from the end to the side.

Figure 4

Spread the Pier Leg. Put the Pier Tube onto the Pier Base, with Pier Alignment Slot aligned over the Alignment Tab on the Pier Base.

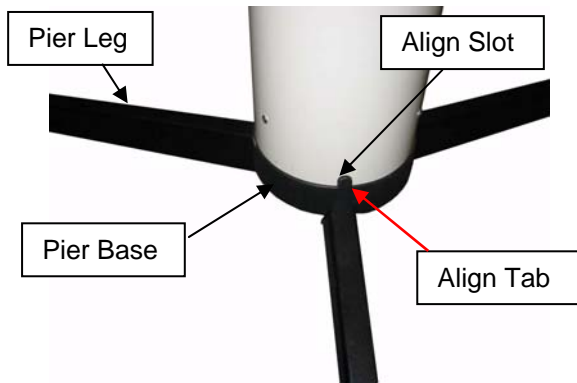[1] Parts included may be different from the list and photos.

Figure 5

Adjust the length of the three Pull Rods. Hook one end of a Pull Rod onto a bolt located on the Pier Leg and the other Pull Rod end onto the mounting beam inside the Pier Tube. Evenly tighten the Pull Rods. Make sure there is no gap between the Pier Base and Pier Tube.
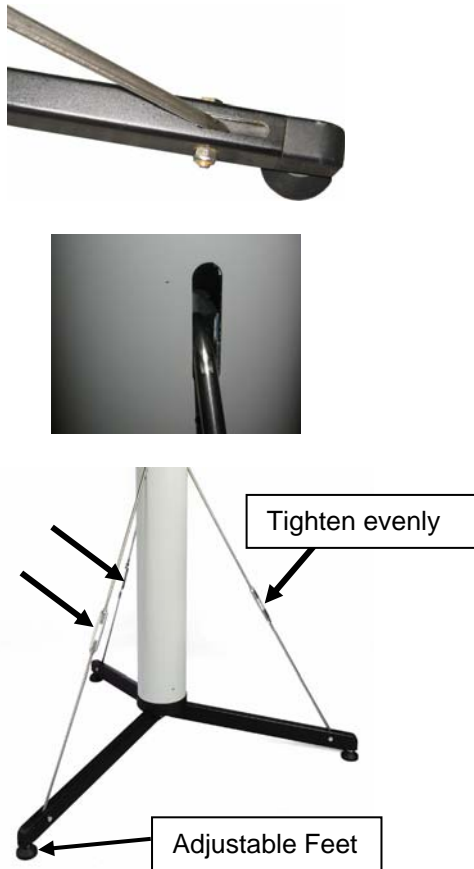

Figure 7 Pier with Alignment Peg and Center Stud for iEQ45

To install an iEQ45 mount onto the pier, just simply face the alignment peg north (if you are located in northern hemisphere), and install the iEQ45 mount. Tighten 3 Azimuth Locking Screws.

Figure 6

There are three sets of holes/threads on top flange of the pier. They are designed for mounting an iEQ45, an iEQ30 or a MiniTower series mount, as indicated in Figure 7.
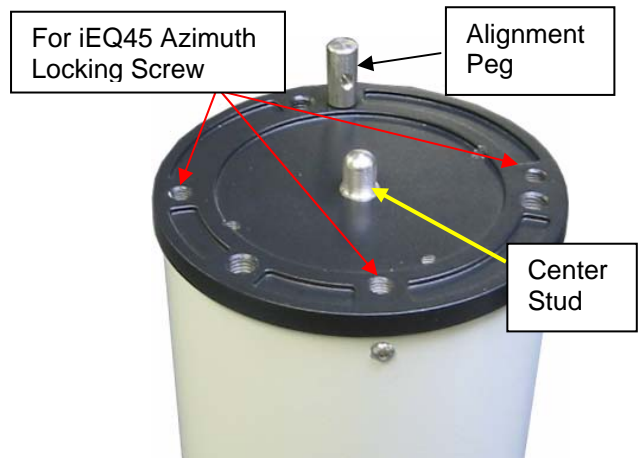

Figure 8 iEQ45 on a pier

To install an iEQ30 mount onto the pier, remove the iEQ45 alignment peg. Thread an iEQ30 alignment peg into the middle threaded hole located on inner circle. Then face the alignment peg north (if you are

located in northern hemisphere), and install the iEQ30 mount. Tighten 2 Azimuth Locking Screws.

For iEQ30 Azimuth Locking Screw

Figure 9 Pier with Alignment Peg and Center Stud for iEQ30

Figure 10 iEQ30 on a pier

To install a MiniTower series mount (MiniTower, MiniTower II or MiniTower Pro) onto the pier, remove the top flange from the Pier Tube by remove three mounting screws. Remove iEQ Center Stud and Alignment Peg. Insert the MiniTower Center Bolt through the center hole.

Install the Turning Lever. Mount the Top Flange back to the Pier Tube.

For MiniTower Leveling Screws

Center Bolt

Figure 11 Pier with MiniTower Center Bolt

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 Center Bolt into the MiniTower and tighten it. Make sure the mount is leveled while rotating the mount.

Figure 12 MiniTower on a Pier