

FOVEAL SYSTEMS

The Center of Vision

NOTE: Change of Address!

Until January 2018

35 Lathrop Ave, Apt 2 ←
Madison NJ 07940-2451 ←

973 822-2085 FAX by appointment

www.FovealMounts.com

November 9, 2017

Extra Fine Adjustment Option for Foveal Camera Mounts: Installation Manual

READ ME FIRST

This option adds steps to the installation procedures found in the

Foveal Camera Mount Installation Manual.

Reading through this manual first, and then the other manual should make the overall installation process clearer.

Please read both manuals before installing your first Foveal Camera Mount with the Extra Fine Adjustment Option.

Contact Me If You Have Any Questions, Comments or Suggestions.

Mike Bianchi

MBianchi@Foveal.com

Overview

The **Foveal Rigid Camera Mounts** and **Foveal Fine-adjustment Camera Mounts** are finely adjustable camera 2- and 3-axis mounts for small-to-medium sized "box" cameras, camera enclosures and instruments, such as lasers. They allow each position of the pan, tilt and, in 3-axis models, roll axes to be locked down so they cannot be casually changed, either deliberately or accidentally. The Rigid Mounts are intended for environments where they will be subjected to extreme bumps or twisting forces. The Foveal Fine-adjustment Mounts are less expensive and less robust 2-axis mount designed for less demanding environments. See:

http://www.FovealMounts.com/rigid_mount.html

http://www.FovealMounts.com/fine_mount.html

However, as the working distance of the camera or instrument gets longer the angle adjustments are more difficult, The 32 thread-per-inch screws used for changing pan and tilt may be too coarse for very fine adjustment.

We have designed an Extra Fine Adjustment (**EFA**) option that uses finer threaded screws to give you finer pan and tilt control. †

The angle change that used to take one turn of the position screw now takes about three turns.

- 100 threads-per-inch for the smaller mounts which have the **FMn** and **RM1** model numbers. For example:

FM0_2a_EFA FM2_2a_EFA FM3_2a_EFA FM3mm_2a_EFA

RM1_3a_EFA

The manufacturer says the maximum axial load is 15 lbs, 6.8 kg.

- 80 threads-per-inch for the larger mounts which have the **RM2** and **RM3** model numbers. For example:

RM2_2a_EFA

RM3_3a_EFA

The manufacturer says the maximum axial load is 15 lbs, 6.8 kg.

Caution

The brass and steel precision screws used can be easily stripped if overtightened.

† We are considering an EFA option for the roll axis. Contact us if you are interested.