

TECHSPEC® S-Mount Kinematic Mount (3-Screw Adjustment)



S-Mount Kinematic Mount (3-Screw Adjustment) (#11-133)

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Product Downloads

General

Tube Mount **Type:**

Kinematic (Tip-Tilt) **Function:**

3 **Number of Adjustment Screws:**

Physical & Mechanical Properties

Construction:
Aluminum Plates, Stainless Steel Screws, and Brass Thread Bushings

Thickness (mm):
19.60

Travel (mm):
Z-Axis: 6

Fine Tilt Angle (°):
±5

Fine Tip Angle (°):
±5

Sensitivity per 1° Knob Rotation (arcsec):
7.0

Adjustment Screw Pitch (mm):
0.20

Aperture Size:
M12 x0.5

Height (mm):
23.5

Pointing Accuracy (µrad):
1.3

Threading & Mounting

Thread Type:
S-Mount

Mounting Threads:
M4

Compatible Post:
M4 x0.7

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Reach 224:
[Compliant](#)

Certificate of Conformance:
[View](#)

Product Details

- Allow for Kinematic Adjustment of C, S, and T-Mount Components
- Horizontal Mounting Adapters Available
- Removable Turning Knobs for Hex Key Access

TECHSPEC® C, S, and T-Mount Kinematic Mounts feature high accuracy adjustment screws in either two or three screw versions for control of tip and tilt. Three screw versions allow additional translation in the optical axis (Z-Axis). The C-Mount Kinematic Mounts have 1"-32 TPI female threading to hold C-Mount components; the S-Mount Kinematic Mounts have M12 x0.5 threading to hold S-Mount components; the T-Mount Kinematic Mounts have M42 x0.75 threading to hold T-Mount components. All three mounts use fine adjustment, 100+ TPI, screws to provide ±5° of tip/tilt, and high quality construction and materials ensure quality and repeatability. Stainless steel inserts are used for all adjustment screw contact surfaces and specially designed dampening grease provides smooth movement. Adjustment knobs are removable for Allen Key or motorized adjustment (2mm key size). TECHSPEC® C, S, and T-Mount Kinematic Mounts are designed to connect to our [TECHSPEC® Optical Posts](#). For C-Mount and T-Mount types, when the male-thread adapter is removed from the post, either an M4 or 8-32 tapped hole is available to accept the post-mounting screw from the mount. For the S-Mount types, an M4 hole is available for mounting.

Note: Included hardware kits contain appropriate post mounting screws and Allen wrenches for adjustment. [TECHSPEC® Optical Mount Accessories](#) are available to easily integrate TECHSPEC® C, S, and T-Mount Kinematic Mounts into a variety of applications.