

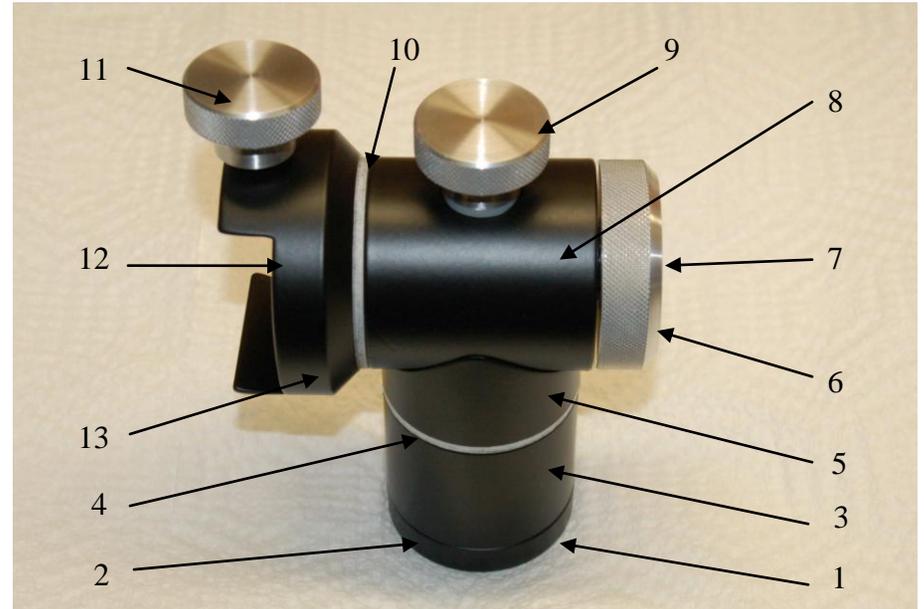
DSV-M
MINI ALTITUDE-AZIMUTH TELESCOPE MOUNT
User Manual



DESERT SKY ASTRO PRODUCTS
Phoenix, AZ, USA

Your New Mount

Thank you for choosing Desert Sky Astro Products. Please take some time to familiarize yourself with its features. Read user manual before using mount.



- 1) Mounting socket (underside of base plate)
- 2) Base plate (base plate/altitude support in some models)
- 3) Azimuth bearing housing
- 4) Azimuth thrust bearing
- 5) Altitude support
- 6) Altitude tension knob
- 7) Altitude knob cap screw
- 8) Altitude bearing housing
- 9) Azimuth tension knob (located on front some models)
- 10) Altitude thrust bearing
- 11) Dovetail clamp knob & bolt
- 12) Dovetail clamp cap screw
- 13) Dovetail clamp

Package contents

The shipping box contains a fully assembled DSV-M mount. Other items may be present in the box depending on your specific order. Please remove protective wrapping prior to use

Attaching mount to a tripod

The mount attaches to a tripod (sold separately) by threading the mount onto the tripod's mounting screw. Recommended tripods are Desert Sky Astro Products LWT-1 Astro Tripod or any heavy duty photo tripod capable of supporting 15lb or more, equipped with a center column and 3/8-16 mounting screw. The picture below shows a DSV-M attached to a LWT-1 tripod.



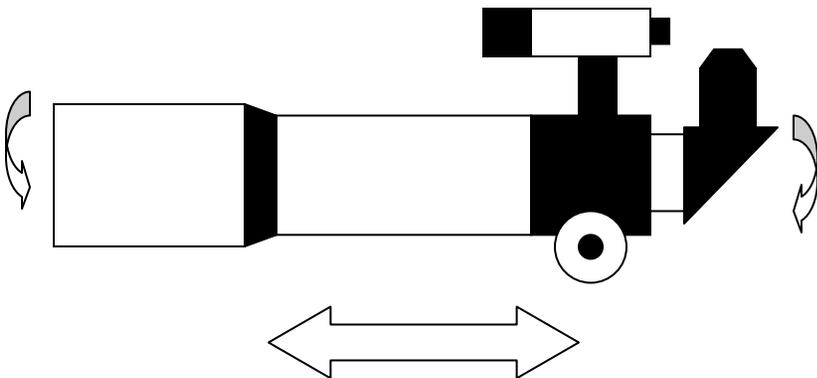
Attaching a telescope

The mount is recommended for use with Refractors up to 80mm f/7, Schmidt-Cassegrains up to 6" and Maksutov-Cassegrains up to 5". Recommended payload is up to 12lb. The telescope must be equipped with a Vixen-compatible dovetail plate for use with the DSV-M. Install on the telescope the accessories you plan to use during the observing session (i.e. star diagonal, finder and eyepiece) before attaching the telescope to the mount. To attach the telescope, slide the dovetail plate into the dovetail clamp of your mount, as shown in the image below.



Balancing the telescope

It is very important to balance the scope on both axes, especially on altitude. The thrust bearings in the mount will compensate for imbalance within some limits, but balancing the telescope properly will provide the smoothest operation and stability at all pointing positions. Make sure the tripod and the mount are level. After attaching the telescope, set it so that the optical tube is level. Loosen the altitude knob as needed to allow easy rotation of the altitude axis. Tighten the dovetail knob just enough to prevent the dovetail from disengaging the dovetail clamp but still allowing the dovetail bar to slide. Hold telescope while performing these steps. Slide the telescope back or forward on the dovetail clamp as needed until it does not tend to tip front or back. Tighten the dovetail clamp knob as needed after balancing telescope.



Once the scope is balanced, tighten the altitude and azimuth knobs to obtain the desired motion firmness.

Changing Eyepieces and Accessories

With the optical tube correctly balanced, the mount will hold its pointing position when switching between lightweight eyepieces. Tightening the altitude knob will help maintain pointing position when changing eyepieces. In any case, it is recommended to hold telescope when changing eyepieces or accessories to prevent the telescope from suddenly tipping front. Telescope may require rebalancing when switching between eyepieces of different weight. Adjust the altitude knob as required after changing eyepieces.

Mount Care

Store mount protected from the elements. If the mount becomes wet or soiled during use, wipe water or dirt with clean lint-free cloth and allow it to dry indoors. All bearings and mechanical surfaces have been lubricated at manufacture and do not require further lubrication during use.

Warranty and service

Your mount is guaranteed to be free of material and workmanship defects for one year from date of original purchase. Within this period of time, Desert Sky Astro Product will repair or replace defective components at its discretion. Abuse, accidental damage and third party modifications & repairs are not covered by the warranty. To obtain service, call 602-550-4331 or email desertskyastro@cox.net to make return arrangements.

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