



JIM'S MOBILE INDUSTRIES
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MOTOTRAK III

MOTOTRAK III is a triple-control drive corrector (dual axis plus focus) with QUARTZ DRIVEN Sidereal, Lunar, and Solar tracking rates. The MOTOTRAK III hand unit will control our MOTOFOCUS and MOTODEC motors, eliminating the need for switching hand units.

MOTOTRAK III Features:

- o Selectable tracking rate (Sidereal/Solar/Lunar)
- o Low/High Right Ascension correction rate
- o Variable Declination correction rate
- o Declination reverse switch (for Southern Hemisphere use)
- o Variable brightness, Illuminated Reticle output
- o Variable rate Focus Motor output
- o Low Battery indicating LED
- o Disconnecting Hand Unit
- o Optional Battery Pack:

Rechargeable Battery Pack mounts under the MOTOTRAK III unit for semi-permanent installation. Permits removal when not in use (order an extra Pack and use one while the other is charging!) Will power the MOTOTRAK III for one or two all-night sessions. Uses two 6V gel cells rated to 1000 charges.

MOTOTRAK III comes with a wall transformer and cigarette lighter plug for running/recharging from an AC outlet or automobile battery. Right Ascension output is 110VAC at 60Hz, 10 watts. Declination, Focus, and Reticle outputs are DC. Declination is pulse-width driven, allowing better motor control.

JMI is proud to be the first drive corrector manufacturer to incorporate the CCD tracker interface standard. Designed in conjunction with the manufacturers of some of today's popular CCD tracking units, this interface permits one-step connection between your MOTOTRAK III and tracker. The six-position RJ-11 jack in the hand unit serves this function. If not supplied with your tracker, an inter-connecting cable is available from JMI. Please specify tracking unit model when ordering cable.

MOTOTRAK III ADDENDUM

This addendum gives specific instructions for operating your MOTOTRAK III unit. The information contained in the MOTOTRAK manual is generally true of the MOTOTRAK III as well, and should be read before operating the unit. This sheet explains specific features not found in the manual.

BATTERY PACK

The MOTOTRAK III will run when powered by the wall transformer from direct AC current, from the DC current of an automobile or similar batter (by use of the cigarette lighter plug), or when connected to the optional battery pack.

When used with the battery pack, some points should be kept in mind:

1. Never allow the batteries to become fully discharged. This can happen if the battery pack is left plugged into the MOTOTRAK III unit with the switch left on (perhaps by accident). It is recommended that the unit be unplugged from the battery pack when not in use.
2. Charge the batteries after each evening of use. The battery pack should run the MOTOTRAK III unit one or two evenings before requiring a charge, but it is best to recharge it after each use. If the battery pack is not used for an extended period, it should be recharged every six months.
3. Do not charge for more than 24 hours. Generally a ten to 12 hour charge is sufficient. The battery pack is charged before leaving the factory, however we recommend that it be topped off with a four hour charge before initial use. Refer to the manual for more information.
4. A low battery indicator on the MOTOTRAK III unit is lit when the battery pack (or other power source) drops too low. If this happens while using the battery pack, disconnect the MOTOTRAK III and recharge the batteries immediately.

INSTALLING THE BATTERY PACK (optional)

The battery pack has two tabs which fit into the bottom of the MOTOTRAK III unit. Position the MOTOTRAK III directly over these tabs and then push it down and back about a quarter of an inch. (The battery pack on/off switch should be on same side as front of MOTOTRAK) With the tabs properly fitted into the MOTOTRAK III slots, a 6-32 screw should be used to fasten the two units together at the back.

ADDITIONAL FEATURES

The Declination reversing switch replaces the two output jacks mentioned in the manual. Use this if Declination runs wrong way.

The cigarette lighter plug has a 2-amp fuse in its tip which can be replaced by pressing the tip downward and counter-clockwise. Do not replace fuse with one rated at more than 2 amps.