

FS-80EFS

Galileo®



1564 - 1642

Instructions

GALILEO FS-80EFS OPERATING INSTRUCTIONS

INTRODUCTION

CONGRATULATIONS ON YOUR PURCHASE OF THE GALILEO FS-80EFS TELESCOPE.

THIS TELESCOPE HAS BEEN PRODUCED TO PRECISE SPECIFICATIONS.

PRIOR TO USING YOUR NEW GALILEO TELESCOPE, PLEASE READ THE FOLLOWING SETUP AND USAGE INSTRUCTIONS. IT IS IMPORTANT TO PROPERLY ASSEMBLE YOUR TELESCOPE IN ORDER TO ALLOW IT TO FUNCTION PROPERLY.

USE THE TELESCOPE FOR TERRESTRIAL (LAND) VIEWING BEFORE ATTEMPTING TO VIEW ASTRONOMICAL OBJECTS. THIS WILL FAMILIARIZE YOU WITH HOW POWERFUL EACH EYEPIECE WILL BE, AS WELL AS INTRODUCE YOU TO THE FUNCTIONS OF YOUR ACCESSORY LENSES.

THE IMAGE YOU SEE WILL BE UPSIDE DOWN AND BACKWARD. THIS IS DUE TO THE FACT THAT YOUR TELESCOPE IS AN ASTRONOMICAL TELESCOPE AND HAS BEEN MANUFACTURED FOR ASTRONOMICAL OBSERVATIONS.

WE RECOMMEND YOU BEGIN WITH THE LOWEST POWER EYEPIECE (20MM) WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 6MM YOUR POWER WILL BE HIGHER, BUT THE IMAGE WILL APPEAR DARKER. THIS IS DUE TO THE BASIC PHYSICAL PROPERTIES OF THE TELESCOPE. THE HIGHER THE POWER YOU USE, THE DARKER THE IMAGE WILL APPEAR AND YOUR VIEWING FIELD WILL BE MORE NARROW.

PLEASE BE PATIENT WHEN USING YOUR TELESCOPE. IT IS A VERY SENSITIVE INSTRUMENT THAT IS CAPABLE OF USING HIGH POWER. HOWEVER, THE MORE POWER YOU USE, THE MORE SENSITIVE THE TELESCOPE BECOMES. AS A RESULT THE SLIGHTEST MOVEMENT OF THE TELESCOPE COULD CAUSE YOU TO LOSE THE IMAGE YOU HAVE IN YOUR EYEPIECE. PRACTICE WILL ENABLE YOU TO KNOW HOW MUCH MOVEMENT TO EXPECT WITH EACH EYEPIECE AND IT'S CORRESPONDING POWER.

ACCESSORIES

- A) MARS-EYE ELECTRONIC FINDER:
USED TO LOCATE OBJECTS PRIOR TO USING MAIN TELESCOPE.
PLEASE NOTE YOU MUST ALIGN THE FINDER WITH THE MAIN
TUBE PRIOR TO INITIAL ASTRONOMICAL OR TERRESTRIAL USE.



- B) 3X BARLOW:
USED TO INCREASE THE POWER OF ANY GIVEN EYEPIECE BY
300%. EXAMPLE - 20MM EYEPIECE SEPARATELY PROVIDES 40X
POWER, WHEN USED WITH THE 3X BARLOW, YOU NOW HAVE
120X POWER.



- C) EYEPIECES:
6MM EYEPIECE 133X (399X WITH 3X BARLOW)
MOST POWERFUL - LEAST LIGHT
20MM EYEPIECE = 40X (120X WITH 3X BARLOW)
LEAST POWERFUL - MOST LIGHT



- D) IMAGE STABILIZING ELECTRONIC FOCUSER WITH HELICAL
RACK & PINION FOCUSING.ALLOWS FOR PRECISE FOCUSING.



BATTERIES ARE NOT INCLUDED

- E) INCLUDED WITH THE ELECTRONIC FOCUSER IS THE
WIRELESS HANDBOX.
IT STABILIZES THE IMAGE BY ELIMINATING SHAKE.



- F) "GALILEO PLANETARIUM" CD ROM (PLUS INSTRUCTIONAL
TELESCOPE VIDEO):
FROM ANY LOCATION YOU CAN SEE THE SKY AS IT APPEARS AT
ANY TIME OF DAY OR NIGHT, OR EVEN IN THE FUTURE. YOU
CAN LEARN ASTRONOMICAL FACTS WITH NARRATED PHOTO-
GRAPHS FROM THE HUBBLE SPACE TELESCOPE.



NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

FS-80EFS TELESCOPE ASSEMBLY INSTRUCTIONS

CAUTION: NEVER POINT YOUR TELESCOPE AT THE SUN. VIEWING THE SUN WITH THIS TELESCOPE OR EVEN THE UNAIDED EYE CAN RESULT IN BLINDNESS OR OTHER SERIOUS EYE DAMAGE.

1. REMOVE ALL PARTS FROM BOX AND IDENTIFY THEM.
TELESCOPE W/MOUNT ATTACHED
TRIPOD (PREASSEMBLED)
MARS-EYE FINDER
EYEPIECES (20MM & 6MM)
3X BARLOW LENS
WIRELESS HANDBOX
ACCESSORY TRAY
CD-ROM

2. EXTEND TRIPOD LEGS EQUALLY AND TIGHTEN LOCKING KNOBS.

3. ATTACH THE TELESCOPE + MOUNT TO TRIPOD AS SHOWN
DO NOT OVERTIGHTEN



4. ATTACH ACCESSORY TRAY (AS SHOWN).



5. LOOSEN SCREW ON MARS-EYE FINDER AND SLIDE ONTO BRACKET. TIGHTEN ATTACHMENT SCREW. (PLEASE SEE FURTHER INSTRUCTIONS ON MARS-EYE FINDER).



6. REMOVE CAPS WHEN TELESCOPE IS IN USE, AND REPLACE WHEN NOT IN USE. THIS WILL KEEP THE TELESCOPE'S OPTICS CLEAN.



7. THE COLLIMATION SPOT ON THE PRIMARY MIRROR IS FOR THE OPTICAL ALIGNMENT OF THE TELESCOPE, AND IS NOT A DEFECT.





TO SKY
FRONT

MARS-EYE FINDER

WIRELESS CONTROL BOX

IMAGE STABILIZING
ELECTRONIC FOCUSER

BACK

ALTITUDE SLOW-MOTION
KNOB

LOCKING KNOB

TRIPOD

EYEPIECES

GALILEO 6MM GALILEO 20MM

ACCESSORY TRAY

TRIPOD LOCKING
KNOB

3X BARLOW

ADJUSTABLE
RUBBER FEET

HOW TO USE EYEPIECES & ACCESSORIES

PLEASE CONSIDER USING YOUR ACCESSORIES IN THE FOLLOWING ORDER. BY DOING THIS YOU WILL BETTER UNDERSTAND THE IMPACT EACH INDIVIDUAL ACCESSORY HAS ON THE FUNCTION OF YOUR TELESCOPE.



CAUTION:

CLUTCH KNOB MUST BE LOOSE IN ORDER TO FOCUS WITH LEFT FOCUSING KNOB. DO NOT TRY TO FOCUS WITH CLUTCH KNOB TIGHT (FOR MANUAL FOCUSING ONLY)

1. FOCUSING TUBE - TURN FOCUSING KNOB (LEFT SIDE)

TOWARD THE TELESCOPE UNTIL IT WILL GO NO FURTHER. TO FOCUS MANUALLY BEGIN TO TURN THE FOCUSING KNOB TOWARD YOUR BODY, SLOWLY, UNTIL THE IMAGE IS CLEAR.

NOTE: YOU MUST HAVE AN EYEPIECE INSERTED IN ORDER TO VIEW IMAGE. RIGHT SIDE IS CLUTCH KNOB



TIGHTEN CLUTCH KNOB WHEN USING THE WIRELESS HANDBOX TO FOCUS*

2. EYEPIECE INSERTION - INSERT AN EYEPIECE

INTO THE RECEIVING END OF THE FOCUSING TUBE. WE SUGGEST YOU ALWAYS BEGIN WITH THE LOWEST POWER EYEPIECE (20MM). THE LOWER THE NUMBER ON THE EYEPIECE, THE HIGHER THE POWER YOUR TELESCOPE WILL BE USING. ALSO AS YOU INCREASE YOUR POWER YOU WILL DECREASE THE FIELD OF VIEW AND THE BRIGHTNESS OF YOUR TELESCOPE. WE SUGGEST YOU ALWAYS USE THE LOWEST POWER REQUIRED TO VIEW YOUR SUBJECT. PROPER PLACEMENT OF THE EYEPIECES AND ACCESSORIES ARE IMPORTANT IN ORDER TO ASSURE EASY OPERATIONS AND CLEAR VIEWING.



3. BARLOW LENS - THE BARLOW LENS IS USED TO


ACHIEVE THE MAXIMUM POWER FROM YOUR TELESCOPE. INSERT THE BARLOW DIRECTLY INTO THE FOCUSING HOUSING, THEN INSERT AN EYEPIECE INTO THE RECEIVING END OF YOUR BARLOW LENS. REMEMBER YOU WILL HAVE TO READJUST YOUR FOCUSING DUE TO THE FACT THAT YOU HAVE INCREASED THE POWER OF YOUR TELESCOPE.

MARS-EYE ELECTRONIC FINDER MOUNTING & ALIGNMENT

TO MOUNT:

- 1) REMOVE MARS-EYE ELECTRONIC FINDER FROM BOX.
- 2) LOOSEN THUMB SCREWS ON SIDE OF FINDER AND SLIDE FINDER ONTO DOVETAIL MOUNT LOCATED AT TOP OF MAIN TELESCOPE TUBE.
- 3) TIGHTEN THUMB SCREWS.

TO CHECK ALIGNMENT WITH MAIN TELESCOPE:(IMPORTANT!)

- 1) THE MARS-EYE ELECTRONIC FINDER IS NOT PRE-SET AT FACTORY. THE FOLLOWING WILL ALLOW YOU TO ADJUST THE ALIGNMENT.
 - 2) DURING THE DAY LIGHT HOURS, AIM THE MAIN TELESCOPE AT AN OBJECT AT LEAST 1/4 MILE OR MORE IN THE DISTANCE AND BRING IT INTO FOCUS.(VERY IMPORTANT)
 - 3) ONCE YOU HAVE CENTERED THE REFERENCE ITEM IN THE MAIN TUBE, TIGHTEN ALL KNOBS AND ADJUSTMENTS TO PREVENT ANY MOVEMENT.
 - 4) REMOVE CIRCULAR BATTERY SAVER LOCATED BENEATH FRONT OF FINDER (BE SURE TO SAVE AND REPLACE THE BATTERY SAVER WHEN NOT IN USE.)
 - 5) TURN FINDER ON BY SLIDING ON/OFF SWITCH FORWARD. ON/OFF SWITCH IS LOCATED ON THE RIGHT SIDE OF THE FINDER.
 - 6) LOOK THROUGH THE FINDER AND LOCATE THE RED DOT.
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- 7) IF THE OBJECT IN THE MARS-EYE FINDER IS NOT THE OBJECT YOU SEE THROUGH THE MAIN TELESCOPE TUBE, ADJUSTMENT IS REQUIRED.
 - 8) TO MOVE THE RED DOT UP AND DOWN, SIMPLY TURN THE ELEVATION SCREW LOCATED ON THE REAR BOTTOM OF THE FINDER TO HEIGHT REQUIRED.
 - 9) TO MOVE THE RED DOT LEFT AND RIGHT, SIMPLY TURN THE WINDAGE SCREW LOCATED AT THE FRONT LEFT SIDE OF THE FINDER TO THE PROPER POSITION.
 - 10) THESE ADJUSTMENTS WILL ALLOW YOU TO POSITION THE RED DOT ON THE SAME OBJECT CENTERED IN THE MAIN TELESCOPE.

USING THE BARLOW LENS

AS STATED EARLIER IN THE INSTRUCTIONS, THE BARLOW LENS INCREASES THE POWER OF THE EYEPIECES BY 3 TIMES.

TO USE SIMPLY INSERT THE BARLOW LENS INTO THE MAIN FOCUSING TUBE AND THEN PUT THE DESIRED EYEPIECE INTO THE RECEIVING END OF THE BARLOW LENS

PLEASE REMEMBER, THE HIGHER THE POWER YOU USE THE DARKER THE IMAGE WILL APPEAR.

POWER CHART

EYEPIECE	POWER	POWER WITH 3X BARLOW
6MM	133X	399X
20MM	40X	120X

GETTING THE MOST FROM YOUR TELESCOPE

TAKE THE TIME TO BECOME FAMILIAR WITH YOUR NEW TELESCOPE. LEARN THE NAMES OF THE VARIOUS PARTS, WHERE THEY ARE LOCATED AND THEIR FUNCTION. IT IS BEST TO PERFORM THESE FUNCTIONS DURING THE DAY TIME.

WHEN SETTING UP FOR A VIEWING SESSION, PLACE THE TELESCOPE IN AN AREA SHELTERED FROM THE WIND IF POSSIBLE. THE BEST NIGHT TIME VIEWING WILL BE AWAY FROM CITY LIGHT AND WHEN THE ATMOSPHERE IS "STEADY".

WITH A LITTLE PRACTICE YOU WILL LEARN TO JUDGE WHEN VIEWING CONDITIONS ARE GOOD. LOOK FOR THE NIGHTS WHEN THE STARS SHINE BRIGHTLY WITH LITTLE OR NO TWINKLING.

USE LOW POWER TO TAKE ADVANTAGE OF THE WIDER FIELD OF VIEW AND BRIGHTER IMAGE. RESERVE YOUR HIGHER POWERS FOR THOSE NIGHTS WHEN VIEWING CONDITIONS ALLOW FOR DETAILED OBSERVATIONS.

HOW TO USE THE GALILEO IMAGE STABILIZING ELECTRONIC FOCUSER

1. PUT THREE AAA BATTERIES INTO INTO BATTERY HOLDER.



2. INSERT BATTERY HOLDER INTO ELECTRIC FOCUSER COMPARTMENT.



3. CLOSE THE COVER



4. A. TIGHEN THE RIGHT CLUTCH KNOB TO USE THE FOCUSER ELECTRONICALLY.
B. LOOSEN THE RIGHT FOCUSING KNOB TO USE THE FOCUSER MANUALLY (LEFT KNOB ONLY). VERY IMPORTANT. SEE IMAGE →



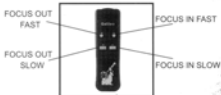
5. TURN ON THE ON-OFF SWITCH, THE INDICATOR WILL FLASH ONCE, ELECTRIC FOCUSER IS READY



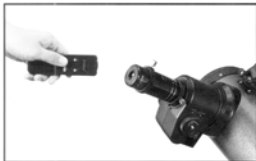
INDICATOR

ON-OFF

6. WIRELESS CONTROL BOX



7. USE WIRELESS CONTROL BOX TO CONTROL THE ELECTRIC FOCUSER. (MUST AIM TOWARD IR RECEIVER)



CAUTION: PLEASE REPLACE THE BATTERIES WHEN YOU SEE THE INDICATOR LIGHT OF ELECTRIC FOCUSER FLASHING CONTINUOUSLY, OR WHEN THE FOCUSING BECOMES IRREGULAR.

8. USE THE FAST FOCUS BUTTONS ON THE HANDBOX WHEN THE IMAGE IS NOT CLOSE TO FOCUS, AND USE THE SLOW BUTTONS WHEN YOU ARE CLOSE TO FOCUS AND THE FOCUS NEEDS TO BE FINE TUNED.

Galileo Limited One Year Warranty

We guarantee to replace or, at our option, repair any products or parts thereof which are found defective in material or workmanship during the first year from date of purchase. Our obligation with respect to such products or parts shall be limited to replacement or repair, F.O.B. Miami, and in no event shall we be liable for consequential or special damages or for transportation, installation, adjustment, or other expenses which may arise in connection with such product or parts. A \$20.00 fee to cover postage and handling is required with the return of the product. No expenses, warranties and implied warranties, whether or not merchantability of fitness for any particular use or otherwise (except as to title) other than these expressly set forth above which are made in writing and signed by executive officer of our corporation.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES, IN NO EVENT SHALL THE MANUFACTURER OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF THE POSSIBILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

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