

Galileo®



1564 - 1642

G-800

GALILEO 800 X 60 REFRACTOR OPERATING INSTRUCTIONS

INTRODUCTION

THIS TELESCOPE HAS BEEN CORRECTED AGAINST CHROMATIC ABERRATION AND 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 THE TELESCOPE TO FUNCTION PROPERLY.

CONSIDER USING THE TELESCOPE FOR EARTH, TERRESTRIAL, 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 THAT YOU WILL SEE IS EITHER BACKWARD OR UPSIDE DOWN. THIS IS DUE TO THE FACT THAT YOUR TELESCOPE IS AN ASTRONOMICAL TELESCOPE AND HAS BEEN MANUFACTURED FOR STAR AND PLANETARY OBSERVATIONS. IN ASTRONOMICAL VIEWING, THERE IS NO UP OR DOWN, NO LEFT AND RIGHT.

WE RECOMMEND YOU BEGIN WITH THE LOWEST POWER EYEPIECE, 20MM, WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 4MM 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 POWERS. 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 ITS CORRESPONDING POWER.

GALILEO 800 X 60 REFRACTOR ASSEMBLY INSTRUCTIONS.

CAUTION: VIEWING THE SUN WITH THIS TELESCOPE OR EVEN THE UNAIDED EYE CAN RESULT IN BLINDNESS OR OTHER SERIOUS EYE DAMAGE WHICH MAY BE PERMANENT.

1. REMOVE ALL PARTS FROM BOX AND IDENTIFY THEM.
2. INSERT LOCKING SCREWS INTO EACH TRIPOD LEG. EXTEND TRIPOD LEGS EQUALLY AND TIGHTEN LOCKING SCREWS.
3. USE THE LARGE BOLTS, NUTS AND WASHERS TO ATTACH TELESCOPE MOUNT TO TRIPOD LEGS. BE SURE THAT ACCESSORY TRAY TONGUES FACE INWARD.
4. USE THE SMALL BOLTS, NUTS AND WASHERS TO ATTACH ACCESSORY TRAY TO TONGUES.
5. MOUNT TELESCOPE TO YOKE. DO NOT OVER TIGHTEN THE LOCKING SCREWS. REMOVE LENS CAPS FROM BOTH ENDS OF THE TELESCOPE.
6. SLIDE MARS' EYE FINDERSCOPE ONTO DOVE TAIL MOUNT AND TIGHTEN. (PLEASE SEE ADDITIONAL INSTRUCTIONS IN THIS BOOKLET FOR THE MARS' EYE FINDERSCOPE.)

GALILEO 800 X 60 REFRACTOR ACCESSORIES

A) A MARS' EYE ELECTRONIC FINDERSCOPE:

USED TO LOCATE OBJECTS PRIOR TO USING MAIN TELESCOPE. PLEASE NOTE YOU MUST ALIGN THE FINDERSCOPE 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 40 POWER. WHEN USED WITH THE 3X BARLOW, YOU NOW HAVE 120 POWER.

C) EYE PIECES:

4MM EYEPIECE = 200X (600X WITH 3X BARLOW)
MOST POWERFUL - LEAST LIGHT
20MM EYEPIECE = 45X (135X WITH 3X BARLOW)
LEAST POWERFUL - MOST LIGHT

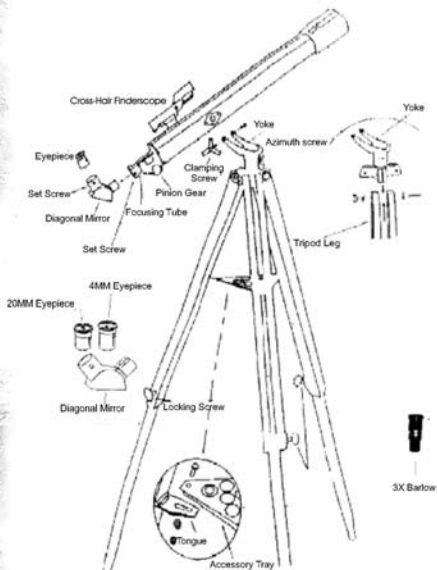
D) DIAGONAL MIRROR:

USED TO MAKE VIEWING EASIER FROM EITHER SIDE OF THE TELESCOPE. THE DIAGONAL MIRROR WILL ALSO MAKE THE UPSIDE DOWN IMAGE RIGHT SIDE UP. THE IMAGE HOWEVER WILL BE BACKWARD AS IT WOULD APPEAR IN A MIRROR.

E) GALILEO PLANETARIUM CD ROM:

ALLOWS YOU TO VIEW, FROM ANY LOCATION, THE SKY AS IT APPEARS AT ANY TIME OF DAY. ALSO ALLOWS FOR VIEWING THE SKY FOR FUTURE DATES. YOU CAN LEARN ASTRONOMICAL FACTS WITH NARRATED PHOTOGRAPHS FROM THE HUBBLE SPACE TELESCOPE.

PICTURE AND POINT OUTS FOR THE 800 x 60 REFRACTOR



USING THE BARLOW LENS

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

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
4MM	200X	600X
20 MM	45X	135X

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 THE FUNCTIONS. IT IS BEST TO PERFORM THESE FUNCTIONS DURING THE DAY.

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

WITH A LITTLE PRACTICE YOU WILL LEARN HOW TO JUDGE WHEN VIEWING CONDITIONS ARE GOOD. LOOK FOR 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 HIGH POWERS FOR THOSE NIGHTS WHEN THE VIEWING CONDITIONS ALLOW FOR DETAILED OBSERVATION.

LASTLY, SPEND SOME TIME WITH YOUR LOCAL ASTRONOMY CLUB. YOU CAN LEARN MORE IN AN HOUR WITH AN EXPERIENCED ASTRONOMER THAN YOU CAN IN A MONTH OF CASUAL VIEWING.

FINDER SCOPE ALIGNMENT

ONCE ASSEMBLY OF THE TELESCOPE IS COMPLETE, YOU MUST ALIGN THE FINDERSCOPE WITH THE MAIN TELESCOPE.

- 1) DURING THE DAY LIGHT HOURS, AIM THE TELESCOPE AT AN OBJECT AT LEAST 1/4 MILE OR MORE IN THE DISTANCE. WE SUGGEST YOU FIND SOMETHING WITH AN APEX, SUCH AS A TELEPHONE OR UTILITY POLE. THESE OBJECTS USUALLY HAVE HORIZONTAL AND VERTICAL REFERENCES. POSITION THE INTERSECTION OF THE HORIZONTAL AND VERTICAL REFERENCES IN MIDDLE OF THE VIEWING FIELD OF THE MAIN TELESCOPE AND BRING IT INTO FOCUS.

HOPEFULLY YOUR POINT OF REFERENCE WILL SIMULATE THE CROSS HAIR OF THE FINDERSCOPE. NOTE: THE IMAGE WILL APPEAR REVERSED.

- 2) ONE YOU HAVE CENTERED THE REFERENCE ITEM IN THE MAIN TUBE TIGHTEN ALL KNOBS AND ADJUSTMENTS TO PREVENT ANY MOVEMENT.
- 3) NOW LOOK INTO THE FINDERSCOPE AND LOCATE THE SAME OBJECT YOU HAVE SELECTED WITH THE MAIN TELESCOPE, AGAIN THE OBJECT WILL APPEAR UPSIDE DOWN. FOCUS THE FINDERSCOPE BY TURNING THE EYEPIECE UNTIL THE IMAGE IS CLEAR.
- 4) CENTER THE OBJECT ON THE CROSSHAIR INTERSECTION BY TURING THE ALIGNMENT SCREWS IN THE FINDERSCOPE BRACKET.
- 5) THE OBJECT IN THE FINDERSCOPE WILL ALSO BE VISIBLE THROUGH THE MAIN TELESCOPE. IF THIS IS NOT THE CASE REPEAT STEPS 1 THROUGH 4.

PATIENCE IS A VIRTUE IN THE INITIAL ATTEMPTS TO ALIGN THE FINDERSCOPE. STICK WITH IT. ONCE YOU GET AN IDEA HOW THE ALIGNMENT SCREWS MOVE THE FINDERSCOPE, IT WILL BE MUCH EASIER.

USING THE BARLOW LENS

AS STATED EARLIER IN THE INSTRUCTIONS, THE BARLOW LENS INCREASES THE POWER OF THE EYEPIECE BY THE MULTIPLE LISTED ON THE LENS ITSELF.

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

EYEPIECES	POWER	POWER WITH 3X BARLOW
20 MM	40	120
4 MM	200	600

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 two years 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 products or parts. A \$10.00 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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