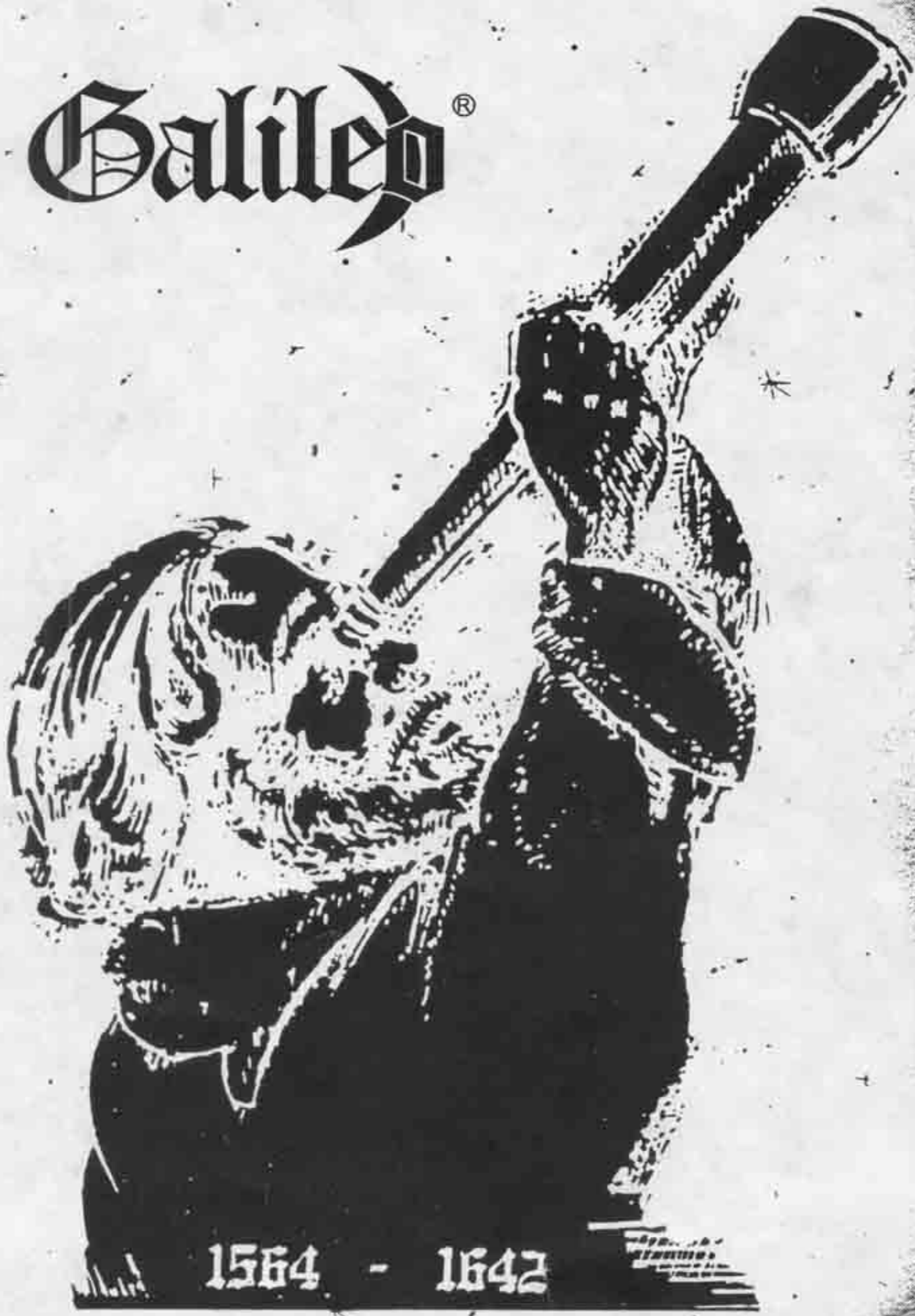


Galileo[®]



1564 - 1642

FS-85

GALILEO FS-85 OPERATING INSTRUCTIONS

INTRODUCTION

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 THE TELESCOPE 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. IN ASTRONOMICAL VIEWING, THERE IS NO UP OR DOWN, NO RIGHT OR LEFT.

FOR TERRESTRIAL VIEWING WE HAVE ADDED AN ERECTING EYEPIECE SO THAT WHEN YOU VIEW OBJECTS ON THE EARTH YOUR IMAGE WILL BE RIGHT SIDE UP.

WE RECOMMEND YOU BEGIN WITH THE LOWEST POWER EYEPIECE, 20MM WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 6.8MM (ZOOM) 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 ITS CORRESPONDING POWER.

ACCESSORIES

- A) MARS' EYE ELECTRONIC FINDERSSCOPE:
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.



Large
1.25"
Format

- 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:
6.8 TO 16MM ZOOM (50X TO 118X)
354X W/3X BARLOW
MOST POWERFUL - LEAST LIGHT
20MM EYEPIECE = 40X (120 X WITH 3X BARLOW)
LEAST POWERFUL - MOST LIGHT

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- D) 1.5X ERECTING EYEPIECE:
USED TO CONVERT THE UPSIDE DOWN, ASTRONOMICAL IMAGE
TO A RIGHT SIDE UP IMAGE. USE AS SHOWN.



- E) HELICAL RACK & PINION FOCUSING.
ALLOWS FOR PRECISE FOCUSING.

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- F) COUNTER BALANCE WEIGHT ASSAY.



- G) " GALILEO PLANETARIUM" CD ROM:
FROM ANY LOCATION YOU CAN SEE THE SKY AS IT APPEARS AT
ANY TIME OF DAY, OR EVEN IN THE FUTURE. YOU CAN LEARN
ASTRONOMICAL FACTS WITH NARRATED PHOTOGRAPHS FROM
THE HUBBLE SPACE TELESCOPE.



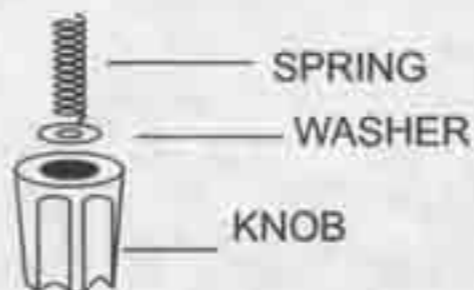
FS-85 TELESCOPE ASSEMBLY INSTRUCTIONS

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.
TELESCOPE W/ MOUNT ATTACHED.
TRIPOD (PREASSEMBLED)
COUNTER WEIGHT SHAFT
COUNTER WEIGHTS
MARS' EYE FINDERSCOPE
EYEPIECES (20MM + 6.8 TO 16MM ZOOM)
1.5X ERECTING EYEPIECE
3X BARLOW LENS
ACCESSORY TRAY
CD-ROM

2. EXTEND TRIPOD LEGS EQUALLY AND TIGHTEN LOCKING KNOBS.
3. ATTACH TELESCOPE + MOUNT TO TRIPOD AS SHOWN.
(DO NOT OVER TIGHTEN)

NOTE: TENSION SPRING & WASHER
LOCATED HERE



4. ATTACH ACCESSORY TRAY (AS SHOWN).

5. LOOSEN SCREW ON MARS' EYE FINDERSCOPE AND SLIDE ONTO BRACKET. TIGHTEN ATTACHMENT SCREWS. (PLEASE SEE FURTHER INSTRUCTIONS ON MARS' EYE FINDERSCOPE).



6. KEEP THE MAIN TUBE BALANCE BY MOVING IT AS SHOWN.



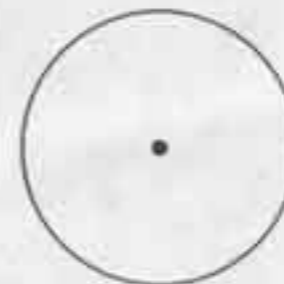
7. KEEP TELESCOPE BALANCE BY MOVING THE COUNTER WEIGHTS AS SHOWN.



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



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



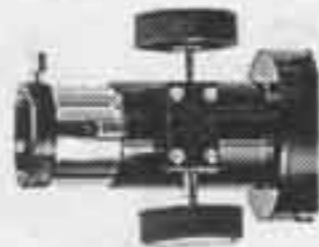


HOW TO USE EYEPIECES & ACCESSORIES

PROPER PLACEMENT OF THE EYEPIECES AND ACCESSORIES ARE IMPORTANT IN ORDER TO ASSURE EASY OPERATIONS AND CLEAR VIEWING.

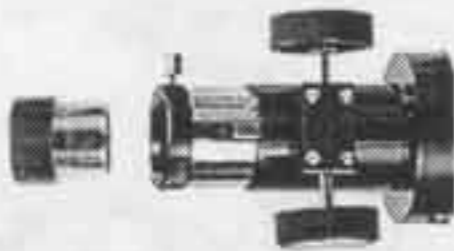
PLEASE CONSIDER USING YOUR ACCESSORIES IN THE FOLLOWING ORDER. BY DOING THIS YOU WILL BETTER UNDERSTAND THE IMPACT EACH INDIVIDUAL ACCESSORY HAS ON THE FUNCTION OF YOUR TELESCOPE.

1. FOCUSING TUBE - TURN FOCUSING WHEELS TOWARD THE TELESCOPE UNTIL IT WILL GO NO FURTHER. TO FOCUS BEGIN TO TURN THE FOCUSING KNOBS TOWARD YOUR BODY, SLOWLY, UNTIL THE IMAGE IS CLEAR. NOTE: YOU MUST HAVE AN EYEPIECE INSERTED IN ORDER TO VIEW IMAGE. PLEASE READ FURTHER.



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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). REMEMBER 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.



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3. BARLOW LENS - THE BARLOW LENS IS REQUIRED TO ACHIEVE THE MAXIMUM POWER FROM YOUR TELESCOPE. INSERT THE BARLOW DIRECTLY INTO THE FOCUSING HOUSING INSERT AN EYEPIECE DIRECTLY 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.



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4. 1.5 X ERECTING EYEPIECE - IF YOU ARE CURRENTLY USING THE BARLOW LENS, REMOVE IT BEFORE INSERTING THE ERECTING EYEPIECE. INSERT THE ERECTING EYEPIECE DIRECTLY INTO THE FOCUSING TUBE. THEN PLACE THE EYEPIECE INTO THE RECEIVING END OF THE ERECTING EYEPIECE.



MARS' EYE ELECTRONIC FINDERSCOPE MOUNTING & ALIGNMENT

TO MOUNT:

- 1) REMOVE MARS' EYE ELECTRONIC FINDERSCOPE FROM BOX.
- 2) LOOSEN THUMB SCREWS ON SIDE OF FINDERSCOPE AND SLIDE FINDERSCOPE 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 FINDERSCOPE IS NOT PRE-SET AT THE FACTORY. THE FOLLOWING WILL ALLOW YOU TO ADJUST THE ALIGNMENT.
- 2) DURING DAY LIGHT HOURS, AIM THE MAIN TELESCOPE AT AN OBJECT AT LEAST A / 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 FINDERSCOPE. (BE SURE TO SAVE AND REPLACE THE BATTERY SAVER WHEN NOT IN USE.)
- 5) TURN FINDERSCOPE ON BY SLIDING ON/OFF SWITCH FORWARD. ON/OFF SWITCH IS LOCATED ON THE RIGHT SIDE OF THE FINDERSCOPE.
- 6) LOOK THROUGH THE FINDERSCOPE AND LOCATE THE RED DOT.



- 7) IF THE OBJECT IN THE MARS' EYE FINDERSCOPE 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 FINDERSCOPE 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 FINDERSCOPE 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 3TIMES.

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 3 X BARLOW
6.8MM TO 16MM ZOOM	50X TO 118X	354X
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.

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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