

F-650

Galileo®



1564 - 1642

Instructions

# GALILEO F-650 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 IT 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 INTRODUCING YOU TO THE FUNCTIONS OF YOUR ACCESSORY LENSES.

DUE TO THE MIRROR DIAGONAL POSITIONED IN THE FOCUS HOUSING, THE IMAGE YOU SEE WILL ALWAYS BE RIGHT SIDE UP, BUT LEFT AND RIGHT ARE REVERSE.

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 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 IT'S CORRESPONDING POWER.

## 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 THE 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 HIGH POWERS FOR THE NIGHTS WHEN THE VIEWING CONDITIONS ALLOW FOR DETAILED OBSERVATIONS.

## ACCESSORIES

- A. FULLY ADJUSTABLE ALUMINUM TRIPOD
- B. EYEPIECES.
  - 6MM=100X MOST POWER/ LEAST BRIGHTNESS
  - 20MM=30X LOWEST POWER/BRIGHTEST IMAGE
- C. DIAGONAL MIRROR.
  - ALLOWS FOR AN UPRIGHT IMAGE THROUGH YOUR TELESCOPE AT ALL TIMES
  - LEFT AND RIGHT ARE REVERSED.
- D. ELECTRONIC MARS-EYE FINDER
  - ALLOWS FOR EASY SPOTTING OF OBJECTS.
- E. PLANETARIUM CD-ROM
  - FROM ANY LOCATION YOU CAN SEE THE SKY AS IT APPEARS AT ANY TIME OF DAY, OR EVEN IN THE FUTURE.
  - LEARN HOW TO USE YOUR TELESCOPE VIDEO.

# GALILEO F-650 ASSEMBLY INSTRUCTIONS

1. REMOVE PRE-ASSEMBLED TRIPOD
2. ADJUST TRIPOD TO PROPER HEIGHT BY LOOSENING, ADJUSTING AND TIGHTENING THE LOCKING KNOBS.
3. REMOVE TELESCOPE AND MOUNT FROM CARTON. NOTE: THEY COME PRE-ASSEMBLED FROM THE FACTORY.
4. LOOSEN THE AZIMUTH LOCKING KNOB ON THE TELESCOPE MOUNT (UNDERNEATH)
5. PLACE THE TELESCOPE AND MOUNT ASSEMBLY ONTO THE TOP OF THE TRIPOD.
6. TIGHTEN THE AZIMUTH LOCKING KNOB (UNDERNEATH THE TRIPOD TOP) SECURELY.
7. REMOVE ELECTRONIC MARS-EYE FINDER.
8. USE THE TWO THUMB SCREWS TO POSITION THE ELECTRONIC MARS-EYE FINDER ON THE TELESCOPE TUBE. FOR ADDITIONAL HELP SEE THE PAGE IN YOUR INSTRUCTION BOOK FOR MARS-EYE ELECTRONIC FINDER MOUNTING AND ALIGNMENT.

## FEATURES OF F-650



## HOW TO USE EYEPIECES & ACCESSORIES

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

PLEASE USE THE 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 NOT GO FURTHER. TO FOCUS BEGIN TO TURN THE FOCUSING KNOBS TOWARD YOUR BODY, SLOWLY, UNTIL THE IMAGE IS CLEAR. NOTE: YOU MUST HAVE AN EYEPIECE AND DIAGONAL INSERTED IN ORDER TO VIEW IMAGE.

### 2) DIAGONAL MIRROR

INSERT THE DIAGONAL MIRROR INTO THE FOCUSING HOUSING.



### 3) EYEPIECE INSERTION

AFTER THE DIAGONAL IS INSERTED, PLACE THE EYEPIECE (20MM) INTO THE DIAGONAL MIRROR. THE LOWER THE NUMBER ON THE EYEPIECE, THE HIGHER THE POWER YOUR TELESCOPE WILL BE USING. PLUS, YOU DECREASE THE FIELD OF VIEW AND THE BRIGHTNESS OF YOUR IMAGE. WHEN USING EYEPIECES, WE SUGGEST ALWAYS STARTING WITH THE LOWEST POWER AND THEN GOING UP.

EYEPIECE

20MM

6MM

POWER

30X

100X

20MM IDEALLY SUITED FOR ALL TERRESTRIAL AND ASTRONOMICAL VIEWING.  
6MM IS RECOMMENDED FOR NIGHTS OF STEADY SEEING.

## 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.
- 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.



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**IF YOU NEED ANY FURTHER HELP WITH YOUR GALILEO TELESCOPE  
PLEASE CALL US @ 1-800-548-3537 MON-FRI 9AM - 5PM E.S.T**