

## Caution

- Do not leave the product attached to the accessory shoe of an instrument during transportation. It could come off or result in damage to it.
- The compass does not point in the right direction if it is used near magnetic materials, electric appliances and ironware.
- Do not use the product while traveling or walking, as injuries may arise from stumbling, falling or collision with objects.
- The compass does not point in the right direction in the inside of a passenger vehicle, as it has a specific magnetic field. This may also occur at the inside of reinforced concrete buildings.
- Be careful not to hit or drop the unit when handling. This may cause damage or malfunction.
- Static electricity generated in dry environments may affect the compass from pointing right direction. This is a one-time phenomenon and it will not damage the unit.
- Tiny bubbles may arise in the fluid of the compass due to a change of temperature or atmospheric pressure. This is normal occurrence.

## Storage

- For storage, keep the product in dry places. Do not leave the product inside a car in bright sunshine, or in hot place. Keep any strong heat radiation sources away from the product.
- Never bring a strong magnet close to the compass as it may cause magnetic reversals. Do not store the compass in a place that is influenced by magnetism or near magnetic materials.
- If the product gets dirty, wipe with dry tender cloth softly. For stubborn dirt, wipe with cloth tightly wrung out with water.
- When cleaning, do not use solvent such as paint thinner.

## Warranty

This limited warranty is only effective when the product is purchased and used in Japan.

1. The free repair service shall be effective for a period of one year from date of original purchase from the dealer stated on the left on the conditions that the product should be treated correctly according to the operating instructions.
2. The limited warranty shall be void and of no force of effect in the event that a model name, purchase date, user name or dealer name is blank.
3. This warranty shall be limited to the purchaser and not transferable.
4. Depending on the conditions for repair service, the repair cost may be charged. Go through the section of "REPAIR SERVICE".
5. The provided personal information may be applied to service to the customers during a warranty period. (Overleaf)

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## Preface

Thank you for your purchase of a Vixen Quick Polaris Locator Compass. You should refer to the instruction manuals for your Polaris, camera and camera tripod together with this manual as occasion demands.

## What is Quick Polaris Locator Compass?

Vixen Quick Polaris Locator (QPL) Compass is a compass with a bubble level and an altitude scale used for locating Polaris. The QPL Compass attaches to the accessory shoe on a Polaris Star Tracker or an instrument equipped with camera accessory shoe.

For illustrative purpose, this manual describes the functions of the QPL Compass and explains how to use it with the Polaris.

The QPL Compass allows you to point the Polaris to the north celestial pole easily and quickly. You will find this very useful in long exposure astrophotography, as you can readily setup the Polaris precisely.

- It is designed for use in northern hemisphere.
- An improper setup of the Polaris will result in a rotation of the photographic field of view or star trailing.
- Check latitude of your location where you use the Polaris before starting setup.

## Setting up the QPL Compass

Attach the QPL Compass to the accessory shoe on the Polaris as shown in the figure below.



## Using the Bubble Level on the QPL Compass

Level the compass by bringing the bubble in the bubble level into the center of the guide circle.



## B. Setting Altitude of your Polaris

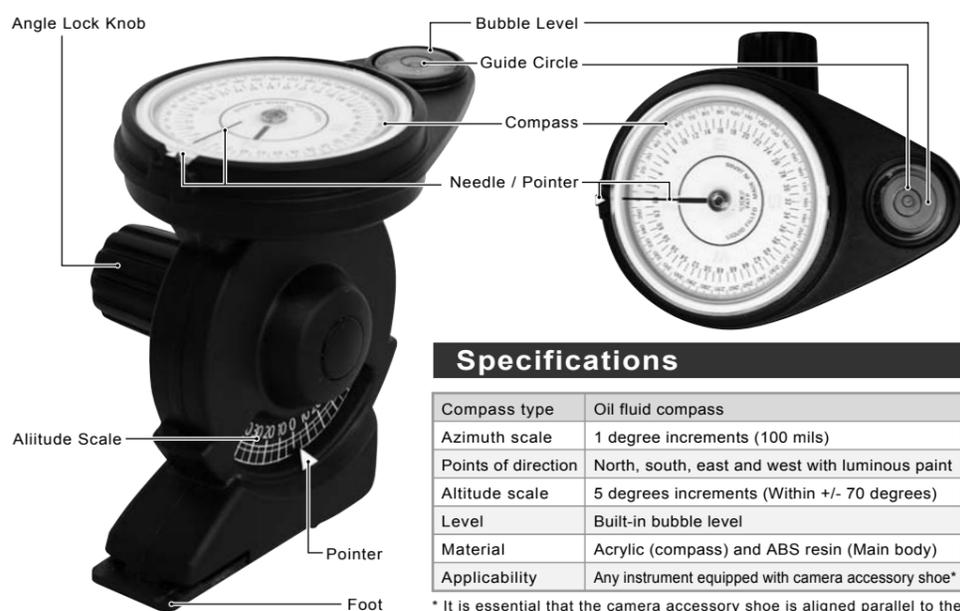
- 1 Loosen the angle lock knob of the QPL Compass and adjust an angle to set the altitude of your location. Tighten the angle lock knob.
- 2 Tilt the Polaris attached on the tripod so that the bubble in the bubble level comes to the center of the guide circle on the level.

# Vixen

## Instruction Manual for Quick Polaris Locator Compass



## Component Name



## Specifications

Compass type	Oil fluid compass
Azimuth scale	1 degree increments (100 mils)
Points of direction	North, south, east and west with luminous paint
Altitude scale	5 degrees increments (Within +/- 70 degrees)
Level	Built-in bubble level
Material	Acrylic (compass) and ABS resin (Main body)
Applicability	Any instrument equipped with camera accessory shoe*

\* It is essential that the camera accessory shoe is aligned parallel to the optical axis of the camera's lens or corresponding equipment.

## Using the Altitude Pointer on the QPL Compass

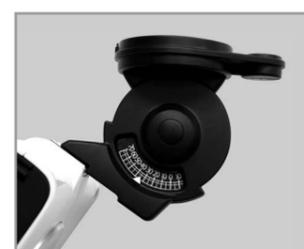
It can be used to confirm the angle of the Polaris while tilted toward the north celestial pole at your location. Alternatively it is used to tilt the Polaris to an angle that is equal to the altitude of Polaris at your location.

### A. Confirming the Angle of your Polaris

- 1 Loosen the angle lock knob of the QPL Compass to enable you to move the built-in bubble level freely. Adjust the level so that the bubble in the bubble level comes to the center of the guide circle on the level. Tighten the angle lock knob.



- 2 On the altitude scale the angle is indicated by the pointer. The altitude is scaled in 5 degree increments.



## Using the Compass

It is used to position the Polaris to north (or turn an instrument attached to the QPL Compass to your desired direction).

- 1 Tilt the Polaris set on the tripod so that the bubble in the bubble level comes to the center of the guide circle on the level.
- 2 As you turn the Polaris to the direction where the needle of the compass points, the dial of the compass moves slowly toward north. Tighten the clamp levers on the tripod if the north point calibrated on the dial matches the needle position,



## Magnetic declination of compasses

The magnetic declination is a deviation from true north or celestial north which may affect the needle of your compass. It differs depending on the area of the earth. Typically the needle of the compass points 3 to 9 degrees off to the west as you use the compass in Japan. You may obtain information on the magnetic declination of your location from the Geographical Survey Institute in your country.