

BINO VUE™ INSTRUCTIONS

Concept: At Tele Vue, the driving force has always been to get as close as possible to the contrast, resolution and field of the most remarkable instrument of all: the human eye. While always respecting the need for viewing comfort, convenience and value, we have broken through conventional barriers to bring you eyepieces and telescopes with performance dramatically closer to the “spacewalk viewing” goal. One major limitation has been the lack of binocular viewing. Look at the night sky with one eye closed. It’s missing a lot. Open both eyes and see the dramatic improvement in resolution, contrast, faint star detection and viewing comfort. All this plus an illusion of depth. Yes, your brain loves two eyed viewing, even when it is not true stereo. Open your eyes and mind to Bino Vue — Al Nagler

Parts List:

Bino Vue Package
BVP-2002
- Bino Vue with Flat Coupler
and 2x Amplifier installed
- Extension Coupler*
(* packaged separately)



Bino Vue with Flat Coupler and 2x Amplifier.
Filters may be used.



Extension Coupler

Bino Vue Body
BVB-2003
Bino Vue with Extension
Coupler

Limitations of ordinary binoculars

You’re probably aware that the color correction and resolution of all high powered binoculars are far less than ideal. Usually the size, weight, cost, inconvenience and lack of interchangeable eyepieces render them undesirable for all but the most die hard fans.

Enter Bino Vue

We immediately recognized the advantages of a binocular attachment that is used like an ordinary binocular as far as setting interpupillary distance without refocusing and is set up as easily as changing an eyepiece.

Because of the high cost and a few other limitations, we hesitated bringing this product to market. However, we felt the astonishing experience, in particular for planetary, lunar, double star, and globular cluster viewing should not be denied.

Why add an image amplifier

Our 2.0x image amplifier/corrector compensates for Bino Vue’s 5.1" of optical path length as well as the slight amount of naturally occurring color and astigmatism introduced into the image by the additional prism glass. Most noticeable in fast

scopes and at high power, we felt it important to design out this degradation. Bino Vue is the only fully corrected system available today that will neither vignette at the widest field nor compromise your telescope's high power performance.

Bino Vue Uses

Bino Vue comes standard with the Flat Coupler and 2x Amplifier installed on the body. This permits the Bino Vue to be used in all telescopes with just a moderate focuser-in-travel required. The 2x Amplifier has filter threads to accept 1 1/4" filters. The Flat Coupler provides enough space for the inclusion of filter without hitting the diagonal mirror when using 2" Tele Vue diagonals and the 2"-1 1/4" Tele Vue "High-Hat" adapter.

If your telescope requires the Bino Vue to be parfocal because it cannot reach focus in the standard configuration then;

1) unscrew the 2x Amplifier from the Flat Coupler,

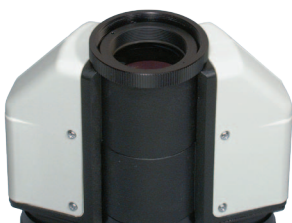
2) unscrew the Flat Coupler disk from the Bino Vue body (a lens wrench or thin-blade screwdriver in the slots may be required) leaving the knurled ring in place.

3) Thread in the Extension Coupler to the Bino Vue body

4) Thread the 2x Amplifier into the Extension Coupler



Bino Vue Flat Coupler



Bino Vue with Flat Coupler removed



Bino Vue with Flat Coupler and Extension Coupler installed



Bino Vue set up with Extension Coupler and 2x Amplifier for parfocalization. Do Not Use Filters.

It is still safe to insert the Bino Vue into 2" Tele Vue diagonals with the 2"-1 1/4" Tele Vue "High-Hat" adapter without hitting the diagonal mirror. If a filter is threaded onto the Bino Vue in this configuration, it **WILL** hit the mirror. Take precautions to ensure this does not happen.

If you will also be using the Bino Vue with telescopes that have enough focus in-travel to allow the Bino Vue to come to focus without the 2x Amplifier, such as SCTs, then;

- 1) install the Extension Coupler as described above
- 2) Then, refocus the SCT mirror.

(This does increase the E.F.L.

of the SCT about 25% due to the nature of the secondary relative to the primary). Note: some ghosting may be seen when bright objects are outside, but near to the viewing field. Careful eye positioning can minimize this.

Using Bino Vue

Bino Vue is very simple to use. First, start with two Tele Vue eyepieces to ensure exact matching of eyepiece focal lengths. Insert the eyepieces into the EYEPIECE HOLDERS and tighten both Eyepiece Clamp Rings just enough to hold the eyepieces securely against gravity, but loose enough to slide them up and down with your hand. Doing so will make diopter adjustment a snap.

Next, set the interocular distance. While looking into Bino Vue, grasp both sides of the body and either squeeze together or spread apart until the two circles merge into one (just like binoculars). Focus the scope normally. If there is a difference in focus between the eyepieces, simply slide one of the eyepieces in or out to match the focus difference of your eyes.

A note on the collet type Eyepiece Holder. This method of holding the eyepieces in place insures the optical axis of the eyepieces remain in-line with the optical axis of the rest of the system. Slight misalignment of the optical axis can cause fatigue or eye strain when viewing for long

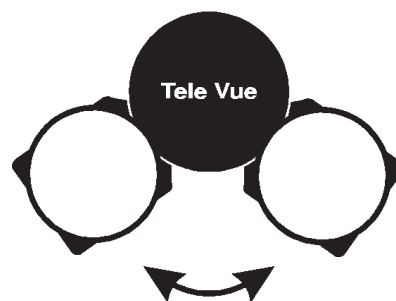
periods and at high powers.

A Final Note

If you use Bino Vue with any of our telescopes for terrestrial viewing, you will enter a new world of visual experience. And, whether you're viewing in daylight or at night, you will hardly realize that each eye is seeing less than 50% transmission normally seen at the same magnification. The reason is that the resolution and contrast are so high, and two eye viewing seems to "recover" some of the light loss. Indeed until you go to very high powers, you may prefer these views with seemingly darker sky backgrounds.

Warranty

Each Bino Vue is carefully collimated and tested at Tele Vue. Bino Vue is warranted for 5 years against manufacturing defects. Dropping or banging it may disturb the collimation. Never remove the covers or any other part, or you may void the warranty. Disturbance of collimation is usually evidence of abuse, it is warranted at the discretion of Tele Vue. Please handle Bino Vue carefully as you would a telescope.



Setting Interocular Separation