

My AO MicroStar 110

I recently purchased an AO \ Reichert MicroStar 110 microscope on eBay at a very good price. After examination I was happy that it was in relatively good condition. The illumination worked ; had three objectives ; but no eye pieces. Where applicable plain achromatic infinity objective lens were exchanged with my better ones. Later 4X and 2.4X (eBay purchase) were added. All five nose piece objectives have been filled.

The neutral density filter was loose; reattached it to its holder which broke; used sparingly tiny drop of super glue. Works great

For the eyepiece => used WF 10X20 eBay Chinese vendor; is with in my beer budget; seems good image

Binocular head => exchange binocular optics from another head that I purchased on eBay; much less haze.

Condenser didn't have swing out optics for 2.5 and 4 X objective. Found an extra BL swing out lens for DybXXXX from my parts bin; fabricated adapter for mounting swing out lens to condenser

Decided to replace halogen bulb for 3W LED color temp ~ 6500 deg;

Result:

I am very pleased about the results; the LED is extremely bright; the neutral density filter works great for low power usage (without filter way too much light); the image contrast is good using the Koeler iris .

It seems to be at least as good of not better than my best BL flat-field dynoptic microscope.



Front View A



Front View B

