

## FLTB470 Filter



more sensors, more solutions

### For use with C-mount lenses

The FLTB470 filter is designed for the C-mount lenses used with Banner vision sensors. It improves image quantity by reducing unwanted ambient light. The FLTB470 is a glass filter which provides a greater transmission percentage for a narrower band than the FLTB or other plastic filters. Blue light passes through the filter, while other visible and infrared light is blocked.

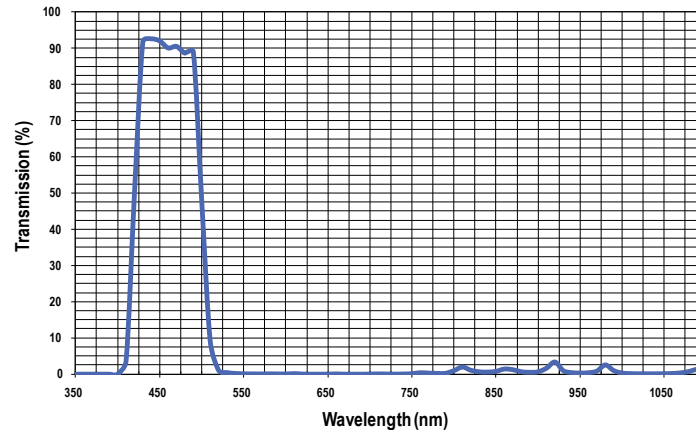


Figure 1. Percent transmission of light wavelengths through the filter

### Installing the Filter

Use the following instructions to install the filter behind the camera lens on the sensor.

1. Remove the lens from the sensor.
2. Carefully place the filter in the sensor, as shown, and make sure it is fully seated.



**NOTE:** Avoid fingerprints on the filter. If necessary, carefully clean the filter with lens cleaner or isopropyl alcohol.

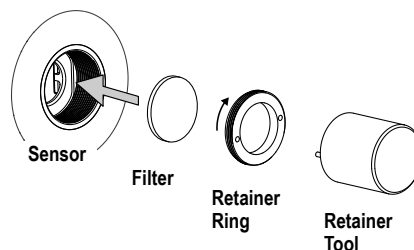


Figure 2. Install the filter on the camera

3. Place the two posts on the supplied retainer ring tool into the two holes on the retainer ring.
4. Using the retainer ring tool, thread the retainer ring into the sensor until it firmly seats the filter.
5. Remove the retainer ring tool.
6. Re-install the lens on the sensor.

### Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

**THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.**

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp.

