

## FK220 BN SERIES FILTER TEST KIT

### *Designed with a Reduced Bandwidth for Further Spectral Separation*

The NEW BN Series FK220-27 comes with the 10 most recommended VIS and NIR Machine Vision Filters. It offers bandpass filters with a reduced bandwidth – useful for outdoor applications or situations with extreme ambient light conditions for further separation of wavelengths. This compact test kit is an excellent resource for testing and evaluating image quality.

#### The FK220 allows you to:

- Test before investing in hardware
- Control the variability of ambient light
- Evaluate glare reduction
- Solve applications quickly

#### Kit Contents:

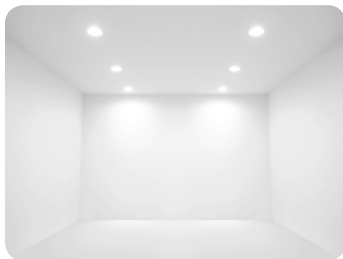
- 27mm threaded mount filters
- Step-up rings and step-down rings to fit most M25.5 and M30.5 lenses
- PS030 – Ultra High Contrast Polarizing Film for the light source
- Educational material on optical filters and technical specs for each filter

Part #	Description	Useful Range	FWHM			
● <b>BN470-27</b>	Narrow Blue Bandpass	460-490nm	50nm	● <b>BN850-27</b>	Narrow Near-IR Bandpass	840-865nm 45nm
● <b>BN532-27</b>	Narrow Green Bandpass	525-550nm	55nm	● <b>BN940-27</b>	Narrow Near-IR Bandpass	920-955nm 55nm
● <b>BN595-27</b>	Narrow Orange Bandpass	580-610nm	45nm	● <b>PR032-27</b>	Linear Polarizer	400-700nm
● <b>BN630-27</b>	Narrow Light Red Bandpass	625-645nm	45nm	■ <b>PS030</b>	Ultra High Contrast Linear Polarizer Film .030" thk	400-700nm
● <b>BN660-27</b>	Narrow Dark Red Bandpass	645-675nm	45nm	○ <b>SU25.5-27</b>	Step-Up Adapter Ring	
● <b>BN740-27</b>	Narrow Near-IR Bandpass	730-755nm	50nm	○ <b>SD30.5-27</b>	Step-Down Adapter Ring	
● <b>BN810-27</b>	Narrow Near-IR Bandpass	798-820nm	50nm			

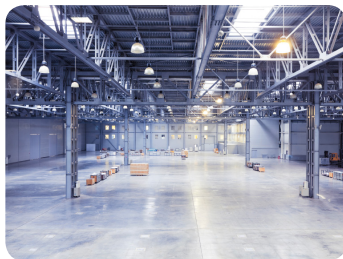


### MIDOPT FILTERS ENSURE REPEATABILITY AND STABILITY FOR ANY VISION SYSTEM

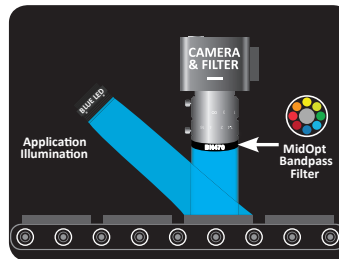
Control the variability of ambient light from the lab to the factory floor



Typical Testing Facility/  
Controlled Lighting Environment

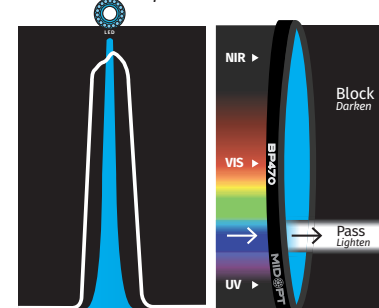


Typical Factory Floor/  
Uncontrolled Lighting Environment  
Overwhelming Ambient Light Conditions



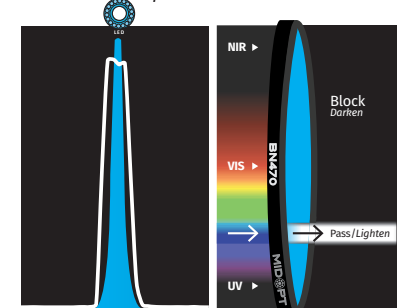
MidOpt optical filters control the variability of ambient light, greatly improving system accuracy and long term repeatability.

#### BP Series – Broad Bandwidth Spans 80-90nm



- Designed for use with all common LEDs used in machine vision lighting
- Commonly used for capturing UV excited fluorescence emissions
- Peak transmission >90%

#### BN Series – Reduced Bandwidth Spans 40-50nm



- Reduced bandwidth design for overwhelming ambient light conditions or when further light separation of wavelengths is needed
- Useful for LED and laser diode illumination
- Beneficial in reducing excitation and emission overlap in fluorescence applications
- Peak transmission >85%



### FK200-27 MACHINE VISION FILTER TEST KIT

Ten Most Popular UV, Visible and NIR Machine Vision Filters

- Ten 27mm threaded mount filters
- Step adapter rings to fit M25.5 and M30.5 lenses
- PS007 – High Contrast Linear Polarizing Film for the light source
- Educational material and technical specs

- |            |             |
|------------|-------------|
| ● BP324-27 | ● BP660-27  |
| ● BP470-27 | ● BP850-27  |
| ● BP505-27 | ● PR032-27  |
| ● BP525-27 | ● PS007     |
| ○ BP550-27 | ○ SU25.5-27 |
| ● BP590-27 | ○ SD30.5-27 |
| ● BP635-27 |             |



### FK100 MACHINE VISION BINDER FILTER KIT

Available in all Threaded Mount Sizes: M13.25 - M105

- Ten most popular UV, VIS, and NIR Machine Vision Filters
- Polarizing Film for light source
- Indicate filter size when ordering

- |              |              |
|--------------|--------------|
| ● BP324-size | ● BP850-size |
| ● BP470-size | ● LA120-size |
| ● BP505-size | ● PR032-size |
| ○ BP550-size | ■ PS007      |
| ● BP590-size | ○ SU25.5-27  |
| ● BP635-size | ○ SD30.5-27  |
| ● BP660-size |              |
- \*Step Adapter Rings Included in M27 only

**Also Available:**

**IK100 NIR Machine Vision Binder Filter Kit**  
Includes: LP695, LP780, BP800, BP850, LP1000

**NK100 Neutral Density Binder Filter Kit**  
Includes: ND030, ND060, ND090, ND120, ND200, ND300, ND400



### SK100 FILTER TEST KIT

*The Ultimate Filter Kit*

The NEW SK100 includes 70 filters for UV, VIS and NIR imaging; making it the ultimate resource for testing and evaluating image quality.

Filter categories included in the SK100: Bandpass; Dual Bandpass; Longpass; Neutral Density; Shortpass; Polarizing; Color Balancing and Protective

- 27mm threaded mount filters
- Step adapter rings to fit M25.5 and M30.5 lenses
- Polarizing Film for light source
- Educational material and technical specs
- Sturdy case for protective storage



### FS100 MACHINE VISION SWATCH FILTER KIT

*Solve Applications On-Site with the Portable Swatch Kit*

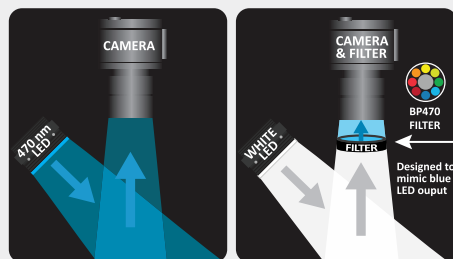
- Ten most popular UV, Visible and NIR Machine Vision Filters
- Larger size 43mm filters
- QR code to link to filter specifications
- Filter transmission curves

- |            |            |
|------------|------------|
| ● BP324-43 | ● BP590-43 |
| ● BP470-43 | ● BP635-43 |
| ● BP505-43 | ● BP660-43 |
| ● BP525-43 | ● BP850-43 |
| ○ BP550-43 | ● PR032-43 |

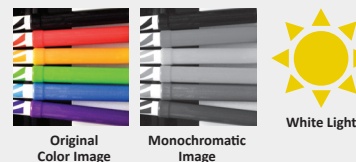
**Also Available:**

**NS100 Neutral Density Swatch Filter Kit**  
Includes: ND030, ND060, ND090, ND120, ND200, ND300, ND400

- Test the effects of monochromatic illumination with MidOpt Filter Kits
- Test before investing in hardware
- Control the variability of ambient light
- Evaluate glare reduction
- Solve applications quickly



Transmission of white light through a BP470 Filter mimics output from 470nm LEDs for testing purposes.



Utilize White Light with Bandpass Filters to Test and Determine the Optimal LED Wavelength for an Application

