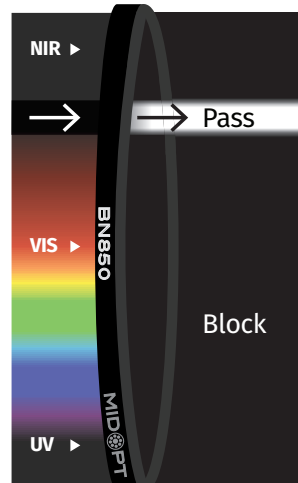
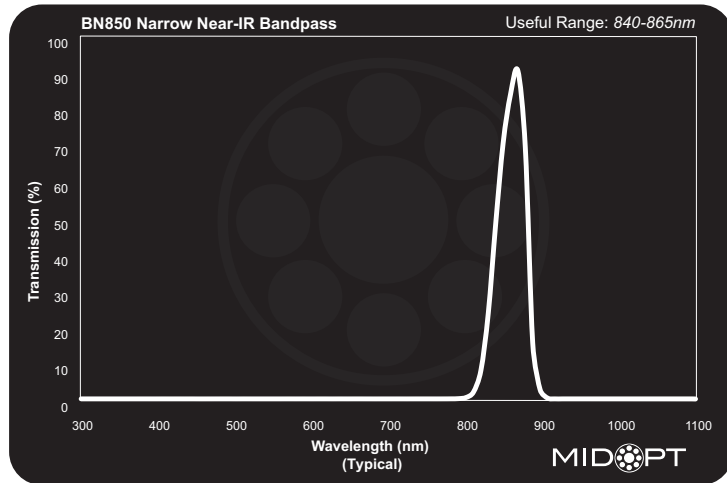


BN850 NARROW NEAR-IR BANDPASS

WWW.MIDOPT.COM
INFO@MIDOPT.COM



Useful Range: 840-865nm
FWHM: 45nm
Peak Transmission: ≥85%
Surface Quality: 40/20
Compatible LED: 840nm, 850nm

StableEDGE™

FILTER MOUNT & SIZE OPTIONS

Threaded Mount



For lenses with filter threads; Mount Sizes M13.25 - M105

| Part # | Thread Dia x Pitch | Part # | Thread Dia x Pitch |
|-------------|--------------------|-----------|--------------------|
| BN850-13.25 | M13.25 x P0.5 | BN850-46 | M46 x P0.75 |
| BN850-22.5 | M22.5 x P0.5 | BN850-48 | M48 x P0.75 |
| BN850-25.4 | M25.4 x P32TPI | BN850-49 | M49 x P0.75 |
| BN850-25.5 | M25.5 x P0.5 | BN850-52 | M52 x P0.75 |
| BN850-27 | M27 x P0.5 | BN850-55 | M55 x P0.75 |
| BN850-30.5 | M30.5 x P0.5 | BN850-58 | M58 x P0.75 |
| BN850-34 | M34 x P0.5 | BN850-62 | M62 x P0.75 |
| BN850-35.5 | M35.5 x P0.5 | BN850-67 | M67 x P0.75 |
| BN850-37 | M37 x P0.75 | BN850-72 | M72 x P0.75 |
| BN850-37.5 | M37.5 x P0.5 | BN850-77 | M77 x P0.75 |
| BN850-39 | M39 x P0.5 | BN850-82 | M82 x P0.75 |
| BN850-40.5 | M40.5 x P0.5 | BN850-86 | M86 x P1.0 |
| BN850-43 | M43 x P0.75 | BN850-95 | M95 x P1.0 |
| | | BN850-105 | M105 x P1.0 |

Available for commonly used IR illumination operating at or around the 850nm wavelengths, BN850 filters feature a narrow band design and is ideal for use when ambient light conditions create poor contrast. Commonly used in security, traffic control, LPR and industrial inspection applications.

BN850 DATA POINTS (TYPICAL)

| Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) |
|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 1100 | 0.05 | 910 | 0.62 | 720 | 0.00 | 530 | 0.00 |
| 1090 | 0.03 | 900 | 1.39 | 710 | 0.00 | 520 | 0.00 |
| 1080 | 0.02 | 890 | 2.87 | 700 | 0.00 | 510 | 0.00 |
| 1070 | 0.01 | 880 | 12.30 | 690 | 0.00 | 500 | 0.00 |
| 1060 | 0.01 | 870 | 57.27 | 680 | 0.00 | 490 | 0.00 |
| 1050 | 0.01 | 860 | 90.20 | 670 | 0.00 | 480 | 0.00 |
| 1040 | 0.01 | 850 | 82.63 | 660 | 0.00 | 470 | 0.00 |
| 1030 | 0.00 | 840 | 70.05 | 650 | 0.00 | 460 | 0.00 |
| 1020 | 0.01 | 830 | 48.03 | 640 | 0.00 | 450 | 0.00 |
| 1010 | 0.01 | 820 | 23.87 | 630 | 0.00 | 440 | 0.00 |
| 1000 | 0.01 | 810 | 7.98 | 620 | 0.00 | 430 | 0.00 |
| 990 | 0.00 | 800 | 1.91 | 610 | 0.00 | 420 | 0.00 |
| 980 | 0.01 | 790 | 0.38 | 600 | 0.00 | 410 | 0.00 |
| 970 | 0.01 | 780 | 0.08 | 590 | 0.00 | 400 | 0.00 |
| 960 | 0.01 | 770 | 0.02 | 580 | 0.00 | 390 | 0.00 |
| 950 | 0.03 | 760 | 0.01 | 570 | 0.00 | 380 | 0.00 |
| 940 | 0.05 | 750 | 0.01 | 560 | 0.00 | 370 | 0.01 |
| 930 | 0.12 | 740 | 0.00 | 550 | 0.00 | 360 | 0.00 |
| 920 | 0.27 | 730 | 0.00 | 540 | 0.00 | 350 | 0.00 |

*Due to continuous product improvement, specifications are subject to change without notice. For the most up-to-date information visit www.midopt.com

25.4™ C-Mount



Threads between lens and sensor

Part #: BN850-25.4

Slip Mount



- Designed for lenses without filter threads, varifocal and wide-angle lenses
- Includes locking set screws to secure adapter to lens

Create Part

Use "S" and add the outside diameter of lens in mm (ex: 43mm)

Example: BN850-S43

Unmounted

Custom shapes & sizes available

Create Part

CIRCLE: Use "D" and add diameter in mm (ex: 19mm)

Example: BN850-D19

RECTANGLE: Use "R" and add length in mm (ex: 30mm) x width in mm (ex: 15mm)

Example: BN850-R30x15

SQUARE: Use "R" and add side measurement in mm (ex: 15mm)

Example: BN850-R15