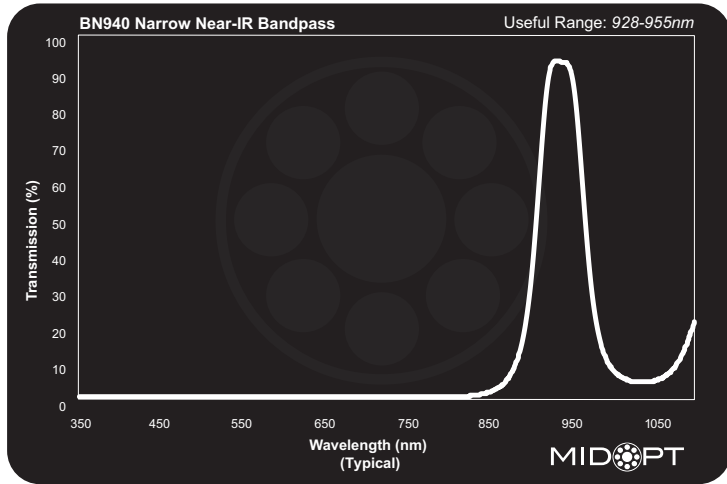
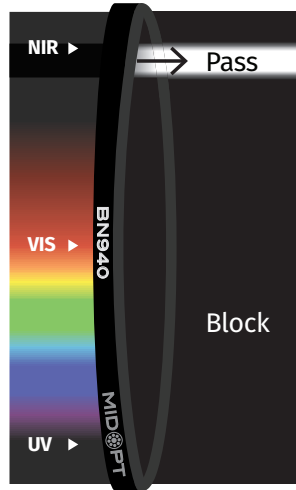


BN940 NARROW NEAR-IR BANDPASS

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Designed for IR illumination applications, BN940 filters are suited for situations when other lighting wavelengths are also present. It is most commonly used in machine vision systems with 940nm LED lighting.



Useful Range: 928-955nm

FWHM: 55nm

Peak Transmission: $\geq 90\%$

Surface Quality: 40/20

Compatible LED: 940nm

StableEDGE™

BN940 DATA POINTS (TYPICAL)

| Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) | Wavelength (nm) | Transmission (%) |
|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 1100 | 20.75 | 910 | 59.68 | 720 | 0.00 | 530 | 0.00 |
| 1090 | 15.06 | 900 | 31.96 | 710 | 0.00 | 520 | 0.00 |
| 1080 | 10.01 | 890 | 15.90 | 700 | 0.00 | 510 | 0.00 |
| 1070 | 6.96 | 880 | 8.37 | 690 | 0.00 | 500 | 0.00 |
| 1060 | 5.24 | 870 | 4.35 | 680 | 0.00 | 490 | 0.00 |
| 1050 | 4.36 | 860 | 2.40 | 670 | 0.00 | 480 | 0.00 |
| 1040 | 3.95 | 850 | 1.33 | 660 | 0.00 | 470 | 0.00 |
| 1030 | 3.94 | 840 | 0.70 | 650 | 0.00 | 460 | 0.00 |
| 1020 | 4.34 | 830 | 0.31 | 640 | 0.00 | 450 | 0.00 |
| 1010 | 5.28 | 820 | 0.11 | 630 | 0.00 | 440 | 0.00 |
| 1000 | 7.16 | 810 | 0.04 | 620 | 0.00 | 430 | 0.00 |
| 990 | 10.96 | 800 | 0.01 | 610 | 0.00 | 420 | 0.00 |
| 980 | 19.23 | 790 | 0.01 | 600 | 0.00 | 410 | 0.00 |
| 970 | 36.86 | 780 | 0.00 | 590 | 0.00 | 400 | 0.00 |
| 960 | 65.19 | 770 | 0.00 | 580 | 0.00 | 390 | 0.00 |
| 950 | 87.19 | 760 | 0.00 | 570 | 0.00 | 380 | 0.00 |
| 940 | 91.49 | 750 | 0.00 | 560 | 0.00 | 370 | 0.00 |
| 930 | 91.82 | 740 | 0.00 | 550 | 0.00 | 360 | 0.00 |
| 920 | 85.60 | 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

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 |
|-------------|--------------------|----------|--------------------|
| BN940-13.25 | M13.25 x P0.5 | BN940-43 | M43 x P0.75 |
| BN940-22.5 | M22.5 x P0.5 | BN940-46 | M46 x P0.75 |
| BN940-25.4 | M25.4 x P32TPI | BN940-48 | M48 x P0.75 |
| BN940-25.5 | M25.5 x P0.5 | BN940-49 | M49 x P0.75 |
| BN940-27 | M27 x P0.5 | BN940-52 | M52 x P0.75 |
| BN940-30.5 | M30.5 x P0.5 | BN940-55 | M55 x P0.75 |
| BN940-34 | M34 x P0.5 | BN940-58 | M58 x P0.75 |
| BN940-35.5 | M35.5 x P0.5 | BN940-62 | M62 x P0.75 |
| BN940-37 | M37 x P0.75 | BN940-67 | M67 x P0.75 |
| BN940-37.5 | M37.5 x P0.5 | BN940-72 | M72 x P0.75 |
| BN940-39 | M39 x P0.5 | BN940-77 | M77 x P0.75 |
| BN940-40.5 | M40.5 x P0.5 | BN940-82 | M82 x P0.75 |

25.4™ C-Mount



Threads between lens and sensor

Part #: BN880-25.4

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: BN940-S43

Unmounted

Custom shapes & sizes available

Create Part

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

Example: BN940-D19

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

Example: BN940-R30x15

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

Example: BN940-R15