

STOCK SIZES AND FILTER TYPES

09/01/05

| Thread Diameter x Pitch (mm) | C-MOUNT | M22.5x0.4 | M25.5x0.4 | M27.0x0.4 | M30.5x0.4 | M34.0x0.4 | M35.5x0.4 | M37.0x.75 | M37.5x0.4 | M40.5x0.4 | M43.0x.75 | M46.0x.75 | M49.0x.75 | M52.0x.75 | M55.0x.75 | M58.0x.75 | M62.0x.75 | Recommended Filters | |
|---|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|------------------------------------|
| | | | | | | | | | | | | | | | | | | | External |
| PART NUMBER | | | | | | | | | | | | | | | | | | | |
| FILTER TYPE | PREFIX | SUFFIX | | | | | | | | | | | | | | | | | |
| FILTER KITS | | | | | | | | | | | | | | | | | | | |
| Machine Vision Filter Kit | FK100 | | | | | | | | | | | | | | | | | | Laboratory Tool |
| Infrared Filter Kit | IK100 | | | | | | | | | | | | | | | | | | Laboratory Tool |
| UV Filter Kit | UK100 | | | | | | | | | | | | | | | | | | Laboratory Tool |
| PROTECTIVE/UV BLOCK FILTERS | | | | | | | | | | | | | | | | | | | |
| Protective Window (Scratch Resist. Acrylic) | AC380 | | | | | | | | | | | | | | | | | | FDA Applications |
| Protective Window (AR coated) | LP340 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | AR coat Protective window |
| Protective Window (UV Absorbing) | LP390 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Protective window |
| UV Dichroic Blocking | LP415 | | | | | | | | | | | | | | | | | | Blocks all UV |
| UV and Near IR Blocking | BP550 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Block infrared+UV |
| NEUTRAL DENSITY FILTERS | | | | | | | | | | | | | | | | | | | |
| Neutral Density OD = 0.3 (50% transmission) | ND030 | | | | | | | | | | | | | | | | | | |
| Neutral Density OD = 0.6 (25% transmission) | ND060 | | | | | | | | | | | | | | | | | | |
| Neutral Density OD = 0.9 (12% transmission) | ND090 | | | | | | | | | | | | | | | | | | |
| Neutral Density OD = 1.2 (6% transmission) | ND120 | | | | | | | | | | | | | | | | | | Viewing into lamps |
| POLARIZING FILTERS | | | | | | | | | | | | | | | | | | | |
| Linear Polarizer, Fixed | PL032 | | | | | | | | | | | | | | | | | | Reduce glare |
| Linear Polarizer, Rotating | PR032 | | | | | | | | | | | | | | | | | | Reduce glare |
| Infrared Linear Polarizer | P1035 | | | | | | | | | | | | | | | | | | Reduce IR glare |
| LIGHT BALANCING FILTERS (FOR COLOR) | | | | | | | | | | | | | | | | | | | |
| Light Balancing (Minus Blue) | LA080 | | | | | | | | | | | | | | | | | | |
| Light Balancing (Minus Blue +) | LA120 | | | | | | | | | | | | | | | | | | Correct White LEDs |
| Light Balancing (Minus Red) | LB080 | | | | | | | | | | | | | | | | | | Halogen lamp color |
| Light Balancing (Minus Red +) | LB120 | | | | | | | | | | | | | | | | | | |
| Light Balancing (Minus Green) | FL550 | | | | | | | | | | | | | | | | | | Correct fluorescent lighting color |
| LONGPASS/COLOR FILTERS* | | | | | | | | | | | | | | | | | | | |
| Light Yellow Longpass - 470nm | LP470 | | | | | | | | | | | | | | | | | | |
| Yellow Longpass - 500nm | LP500 | | | | | | | | | | | | | | | | | | Block blue/UV light |
| Yellow-Orange Longpass - 515nm | LP515 | | | | | | | | | | | | | | | | | | Block blue/UV light |
| Orange Longpass - 530nm | LP530 | | | | | | | | | | | | | | | | | | |
| Orange Longpass - 550nm | LP550 | | | | | | | | | | | | | | | | | | |
| Red-Orange Longpass - 580nm | LP580 | | | | | | | | | | | | | | | | | | |
| Red Longpass - 590nm | LP590 | | | | | | | | | | | | | | | | | | |
| Red Longpass - 610nm | LP610 | | | | | | | | | | | | | | | | | | |
| Red Longpass - 630nm | LP630 | | | | | | | | | | | | | | | | | | |
| Dark Red Longpass - 645nm | LP645 | | | | | | | | | | | | | | | | | | |
| SHORTPASS/COLOR FILTERS* | | | | | | | | | | | | | | | | | | | |
| Blue Dichroic Shortpass - 505nm | SP510 | | | | | | | | | | | | | | | | | | Gold/Silver sorting |
| Blue Green Dichroic Shortpass - 570nm | SP570 | | | | | | | | | | | | | | | | | | Block orange & red light |
| Cyan Dichroic Shortpass - 585nm | SP585 | | | | | | | | | | | | | | | | | | Block red light |
| Blue - Orange Dichroic Shortpass - 625nm | SP625 | | | | | | | | | | | | | | | | | | Block deep red/NIR |
| Magenta Dichroic (Green Block) - 465/625nm | NF550 | | | | | | | | | | | | | | | | | | Block green light |
| COLOR BANDPASS FILTERS* | | | | | | | | | | | | | | | | | | | |
| Blue Bandpass - UV Blocking - 465nm | BP465 | | | | | | | | | | | | | | | | | | Blue LEDs and |
| Blue-Green Bandpass - 470nm | BP470 | | | | | | | | | | | | | | | | | | ⊙ |
| Green-Blue Bandpass - 500 nm | BP500 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | ⊙ |
| Light Green Bandpass - 525nm | BP525 | | | | | | | | | | | | | | | | | | Green LEDs |
| Green Bandpass - 530nm | BP530 | | | | | | | | | | | | | | | | | | ⊙ |
| Green Dichroic Bandpass - 535nm | BP535 | | | | | | | | | | | | | | | | | | |
| Orange Bandpass - 590nm | BP590 | | | | | | | | | | | | | | | | | | Amber LEDs |
| Light Red Bandpass - 635nm | BP635 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Red LEDs |
| Dark Red Bandpass - 660nm | BP660 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Darker Red LEDs |
| INFRARED PASS/VISIBLE BLOCK FILTERS* | | | | | | | | | | | | | | | | | | | |
| IR Longpass - 695nm | LP695 | | | | | | | | | | | | | | | | | | IR LEDs - 720nm |
| IR Longpass - 715nm | LP715 | | | | | | | | | | | | | | | | | | |
| IR Longpass - 780nm | LP780 | | | | | | | | | | | | | | | | | | IR Diode - 810nm |
| IR Longpass - 830nm | LP830 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | IR LEDs - 880nm |
| IR Longpass - 850nm | LP850 | | | | | | | | | | | | | | | | | | |
| IR Dichroic Longpass - 920nm | LP920 | | | | | | | | | | | | | | | | | | IR LEDs - 940nm |
| IR Longpass - 1000nm | LP1000 | | | | | | | | | | | | | | | | | | IR Vidicon/InGaAs |
| IR Bandpass - 695nm | BP695 | | | | | | | | | | | | | | | | | | NIR Fluorescence |
| IR Bandpass - 735nm | BP735 | | | | | | | | | | | | | | | | | | IR LEDs - 735nm |
| IR Bandpass - 800nm | BP800 | | | | | | | | | | | | | | | | | | Best for THIN filters |
| IR Bandpass - 850nm | BP850 | | | | | | | | | | | | | | | | | | Hi Power IR LEDs - 850nm |
| IR Bandpass - 880nm | BP880 | | | | | | | | | | | | | | | | | | IR LEDs - 880nm |
| INFRARED BLOCK/VISIBLE PASS FILTERS* | | | | | | | | | | | | | | | | | | | |
| NIR and UV Blocking - Pass 400-730nm | BP550 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Color Applications |
| Red/NIR Dichroic Blocking - 625nm | SP625 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | |
| Mid-Red/NIR Dichroic Blocking - 645nm | SP645 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Exceptional blocking |
| Deep Red/NIR Dichroic Blocking - 675nm | SP675 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Exceptional blocking |
| Hot Mirror/NIR Dichroic Blocking - 700nm | SP700 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Standard blocking |
| DeepRed/NIR Blocking - 705nm | SP705 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | ⊙ |
| Hot Mirror/NIR Colorless Blocking - 730nm | SP730 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | Standard blocking |
| Modified IR Dichroic Blocking - 785nm | SP785 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | |
| UV BANDPASS FILTERS* | | | | | | | | | | | | | | | | | | | |
| Broadband UV Bandpass - 250nm (\$\$\$) | BP250 | | | | | | | | | | | | | | | | | | Deep UV Viewing |
| UV 'A+B' Bandpass - 324nm | BP324 | -25.4 | -22.5 | -25.5 | -27 | -30.5 | -34 | -35.5 | -37 | -37.5 | -40.5 | -43 | -46 | -49 | -52 | -55 | -58 | -62 | |
| Blacklight/UV 'A' Bandpass - 365nm | BP365 | | | | | | | | | | | | | | | | | | UV LEDs - 365nm |
| Deep Blue/UV Bandpass - 435nm | BP435 | | | | | | | | | | | | | | | | | | ⊙ |

* Wavelength indicated is 50% point (for longpass and shortpass filters) or peak wavelength (for bandpass filters)

NOTE: Colors shown are approximate actual colors of filters as seen in transmission, except infrared and UV pass filters will generally appear opaque. Other filter types/sizes/mounts not listed above, unmounted filters and slip-mount filters for lenses without threads are also available.