

Longpass filters let longer visible and/or infrared wavelengths pass while blocking shorter wavelengths of light.

Mainly for use in monochrome (black and white) imaging applications, longpass filters can help to improve contrast, resolution and separate colors while maximizing brightness of surroundings in the vicinity of the subject under inspection or surveillance. \*MidOpt longpass filters are absorptive rather than dichroic (reflective), making them well suited for wide angle applications. \*Except for LP340 and LP920.

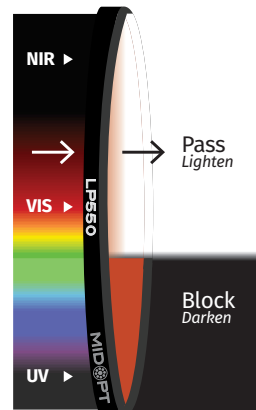
### FEATURES

- VIS/Near-IR wavelengths
- Surfaces provided with durable, high efficiency anti-reflection coatings in order to protect polished glass surfaces and increase light throughput

**Useful for:** outdoor (sunlit or moonlit) applications; longer-wavelength near-infrared and multi-wavelength fluorescence applications

### MOUNT & SIZE OPTIONS

- Threaded Mount, C/CS Mount, Slip Mount, Unmounted
- Threaded Mount Sizes: M13.25 - M105



Example: ● LP550

### DEFINITION

Longpass filters transmit wavelengths longer than the specified cut-on wavelength while blocking shorter wavelengths. They are usually used in monochromatic applications to improve contrast, where like colors will lighten like colors.

| Part #               | Description  | Useful Range | Cut-on WL 50% T | Tolerance | Minimum Peak Transmission | Surface Quality |
|----------------------|--|--------------|-----------------|-----------|---------------------------|-----------------|
| LP SERIES — LONGPASS |  |              |                 |           |                           |                 |
| LP285                | High Transmission Heat Resistant VIS-NIR A/R Protective Window | 385-1100nm   | 285nm           | +/- 10nm  | 98%                       | 40/20           |
| LP330                | Protective Window  | 340-1100nm   | 330nm           | +/- 10nm  | 90%                       | 40/20           |
| LP340                | A/R Protective Window  | 390-800nm    | 340nm           | +/- 10nm  | 95%                       | 40/20           |
| LP390                | UV Absorbing Protective Window                                 | 420-1100nm   | 390nm           | +/- 10nm  | 90%                       | 40/20           |
| LP415                | UV Block   | 420-1100nm   | 415nm           | +/- 10nm  | 95%                       | 40/20           |
| LP470                | Light Yellow Longpass  | 480-1100nm   | 470nm           | +/- 10nm  | 90%                       | 40/20           |
| LP500                | Yellow Longpass  | 510-1100nm   | 500nm           | +/- 10nm  | 90%                       | 40/20           |
| LP515                | Yellow-Orange Longpass   | 520-1100nm   | 515nm           | +/- 10nm  | 90%                       | 40/20           |
| LP530                | Orange Longpass  | 545-1100nm   | 530nm           | +/- 10nm  | 90%                       | 40/20           |
| LP550                | Orange Longpass  | 560-1100nm   | 550nm           | +/- 10nm  | 90%                       | 40/20           |
| LP580                | Red-Orange Longpass  | 585-1100nm   | 580nm           | +/- 10nm  | 90%                       | 40/20           |
| LP590                | Red Longpass   | 605-1100nm   | 590nm           | +/- 10nm  | 90%                       | 40/20           |
| LP610                | Red Longpass   | 620-1100nm   | 610nm           | +/- 10nm  | 90%                       | 40/20           |
| LP630                | Red Longpass   | 645-1100nm   | 630nm           | +/- 10nm  | 90%                       | 40/20           |
| LP645                | Dark Red Longpass  | 650-1100nm   | 645nm           | +/- 10nm  | 90%                       | 40/20           |
| LP665                | Dark Red Longpass  | 680-1100nm   | 665nm           | +/- 10nm  | 90%                       | 40/20           |
| LP695                | Near-IR Longpass   | 715-1100nm   | 695nm           | +/- 10nm  | 90%                       | 40/20           |
| LP715                | Near-IR Longpass   | 730-1100nm   | 715nm           | +/- 10nm  | 90%                       | 40/20           |
| LP780                | Near-IR Longpass   | 800-1100nm   | 780nm           | +/- 10nm  | 90%                       | 40/20           |
| LP800                | Near-IR Longpass   | 820-1100nm   | 800nm           | +/- 10nm  | 90%                       | 40/20           |
| LP830                | Near-IR Longpass   | 845-1100nm   | 830nm           | +/- 10nm  | 90%                       | 40/20           |
| LP850                | Near-IR Longpass   | 870-1100nm   | 850nm           | +/- 10nm  | 90%                       | 40/20           |
| LP920                | Near-IR Longpass   | 930-1100nm   | 920nm           | +/- 10nm  | 90%                       | 40/20           |
| LP1000               | Near-IR Longpass   | 1010-1500nm  | 1000nm          | +/- 10nm  | 90%                       | 40/20           |

\*Due to continuous product improvement, specifications are subject to change without notice.