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## Microscope Objectives iPln APO series

| iPLN APO Series              |             |           |           |           |           |           |           |           |
|------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Magnification                | 2X          | 3.5X      | 5X        | 7X        | 10X       | 20X       | 50X       | 100X      |
| Numerical Aperture           | 0.055       | 0.1       | 0.13      | 0.22      | 0.28      | 0.29      | 0.42      | 0.55      |
| Working Distance (mm)        | 34.6        | 40.93     | 44.5      | 36.4      | 34        | 31        | 20.1      | 12.6      |
| Slide CT (mm)                | 0           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Focus Length (mm)            | 100         | 57.1      | 40        | 28.57     | 20        | 10        | 4         | 2         |
| Wavelength (nm)              | 400-700     | 400-700   | 400-700   | 400-700   | 400-700   | 400-700   | 400-700   | 400-700   |
| Resolution (μm)              | 5           | 2.75      | 2.1       | 1.25      | 0.98      | 0.95      | 0.65      | 0.5       |
| Physical Depth of focus (μm) | 90.9        | 27.5      | 16.27     | 5.68      | 3.51      | 3.27      | 1.56      | 0.91      |
| Field (Eye Lens, Φ25)        | 12.5        | 7.14      | 5         | 3.57      | 2.5       | 1.25      | 0.5       | 0.25      |
| 2/3" Sensor (HxV)            | 4.4x3.3     | 2.5x1.89  | 1.8x1.32  | 1.26x0.94 | 0.88x0.66 | 0.44x0.33 | 0.18x0.13 | 0.09x0.07 |
| 1/2" Sensor (HxV)            | 3.2x2.4     | 1.83x1.37 | 1.28x0.96 | 0.9x0.68  | 0.64x0.48 | 0.32x0.24 | 0.13x0.10 | 0.06x0.05 |
| Thread                       | W26 x 0.706 |           |           |           |           |           |           |           |

| iPLN APO HD Series           |             |           |
|------------------------------|-------------|-----------|
| Magnification                | 20X         | 50X       |
| Numerical Aperture           | 0.42        | 0.55      |
| Working Distance (mm)        | 20.68       | 13.48     |
| Slide CT (mm)                | 0           | 0         |
| Focus Length (mm)            | 10          | 4         |
| Wavelength (nm)              | 400-700     | 400-700   |
| Resolution (μm)              | 0.65        | 0.5       |
| Physical Depth of focus (μm) | 1.56        | 0.91      |
| Field (Eye Lens, Φ25)        | 1.25        | 0.5       |
| 2/3" Sensor (HxV)            | 0.44x0.33   | 0.18x0.13 |
| 1/2" Sensor (HxV)            | 0.32x0.24   | 0.13x0.10 |
| Thread                       | W26 x 0.706 |           |

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| iPLN APO NIR Series                       |             |           |           |           |           |
|---|-------------|-----------|-----------|-----------|-----------|
| Magnification                             | 2X          | 5X        | 10X       | 20X       | 50X       |
| Numerical Aperture                        | 0.055       | 0.13      | 0.28      | 0.29      | 0.67      |
| Working Distance (mm)                     | 34.6        | 44.5      | 34        | 31        | 10        |
| Slide CT (mm)                             | 0           | 0         | 0         | 0         | 1.8       |
| Focus Length (mm)                         | 100         | 40        | 20        | 10        | 4         |
| Wavelength (nm)                           | 400-1064    | 400-1064  | 400-1064  | 400-1064  | 450-1340  |
| Resolution ( $\mu\text{m}$ )              | 5           | 2.1       | 0.98      | 0.95      | 0.41      |
| Physical Depth of focus ( $\mu\text{m}$ ) | 90.9        | 16.27     | 3.51      | 3.27      | 0.61      |
| Field (Eye Lens, $\Phi 25$ )              | 12.5        | 5         | 2.5       | 1.25      | 0.5       |
| 2/3" Sensor (HxV)                         | 4.4x3.3     | 1.8x1.32  | 0.88x0.66 | 0.44x0.33 | 0.18x0.13 |
| 1/2" Sensor (HxV)                         | 3.2x2.4     | 1.28x0.96 | 0.64x0.48 | 0.32x0.24 | 0.13x0.10 |
| Thread                                    | W26 x 0.706 |           |           |           |           |

| iPLN APO NIR HD Series                    |             |           |
|---|-------------|-----------|
| Magnification                             | 20X         | 50X       |
| Numerical Aperture                        | 0.45        | 0.8       |
| Working Distance (mm)                     | 16.7        | 3.34      |
| Slide CT (mm)                             | 0.7         | 0.7       |
| Focus Length (mm)                         | 10          | 4         |
| Wavelength (nm)                           | 450-790     | 450-790   |
| Resolution ( $\mu\text{m}$ )              | 0.61        | 0.34      |
| Physical Depth of focus ( $\mu\text{m}$ ) | 1.36        | 0.43      |
| Field (Eye Lens, $\Phi 25$ )              | 1.25        | 0.5       |
| 2/3" Sensor (HxV)                         | 0.44x0.33   | 0.18x0.13 |
| 1/2" Sensor (HxV)                         | 0.32x0.24   | 0.13x0.10 |
| Thread                                    | W26 x 0.706 |           |

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| iPLN APO NUV HP Series                    |             |           |
|---|-------------|-----------|
| Magnification                             | 20X         | 50X       |
| Numerical Aperture                        | 0.4         | 0.42      |
| Working Distance (mm)                     | 17.2        | 16.3      |
| Slide CT (mm)                             | 0           | 0         |
| Focus Length (mm)                         | 10          | 4         |
| Wavelength (nm)                           | 355-620     | 355-620   |
| Resolution ( $\mu\text{m}$ )              | 0.69        | 0.65      |
| Physical Depth of focus ( $\mu\text{m}$ ) | 1.72        | 1.56      |
| Field (Eye Lens, $\Phi 25$ )              | 1.25        | 0.5       |
| 2/3" Sensor (HxV)                         | 0.44x0.33   | 0.18x0.13 |
| 1/2" Sensor (HxV)                         | 0.32x0.24   | 0.13x0.10 |
| Thread                                    | W26 x 0.706 |           |

| iPLN APO NUV Series                       |             |           | iPLN APO NUV HD Series                    |             |
|---|-------------|-----------|---|-------------|
| Magnification                             | 20X         | 50X       | Magnification                             | 50X         |
| Numerical Aperture                        | 0.4         | 0.43      | Numerical Aperture                        | 0.7         |
| Working Distance (mm)                     | 17.15       | 14.81     | Working Distance (mm)                     | 3.5         |
| Slide CT (mm)                             | 0           | 0         | Slide CT (mm)                             | 0           |
| Focus Length (mm)                         | 10          | 4         | Focus Length (mm)                         | 4           |
| Wavelength (nm)                           | 345-700     | 345-700   | Wavelength (nm)                           | 345-700     |
| Resolution ( $\mu\text{m}$ )              | 0.69        | 0.64      | Resolution ( $\mu\text{m}$ )              | 0.39        |
| Physical Depth of focus ( $\mu\text{m}$ ) | 1.72        | 1.49      | Physical Depth of focus ( $\mu\text{m}$ ) | 0.56        |
| Field (Eye Lens, $\Phi 25$ )              | 1.25        | 0.5       | Field (Eye Lens, $\Phi 25$ )              | 0.5         |
| 2/3" Sensor (HxV)                         | 0.44x0.33   | 0.18x0.13 | 2/3" Sensor (HxV)                         | 0.18x0.13   |
| 1/2" Sensor (HxV)                         | 0.32x0.24   | 0.13x0.10 | 1/2" Sensor (HxV)                         | 0.13x0.10   |
| Thread                                    | W26 x 0.706 |           | Thread                                    | W26 x 0.706 |

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