

# World-Leading Optics

**X LINE** High Performance Objectives  
Excellent flatness and chromatic aberration correction with high NA for all applications.

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
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|  |  |  |  |  |  |  |  |
| MAG: 4X                                                                           | MAG: 10X                                                                          | MAG: 20X                                                                          | MAG: 40X                                                                          | MAG: 40X                                                                            | MAG: 60X                                                                            | MAG: 60X                                                                            | MAG: 100X                                                                           |
| W.D.: 13.0                                                                        | W.D.: 3.1                                                                         | W.D.: 0.6                                                                         | W.D.: 0.18                                                                        | W.D.: 0.13                                                                          | W.D.: 0.15                                                                          | W.D.: 0.28                                                                          | W.D.: 0.13                                                                          |
| O.F.N.: 26.5                                                                      | O.F.N.: 26.5                                                                      | O.F.N.: 26.5                                                                      | O.F.N.: 26.5                                                                      | O.F.N.: 26.5                                                                        | O.F.N.: 26.5                                                                        | O.F.N.: 26.5                                                                        | O.F.N.: 26.5                                                                        |
| N.A.: 0.16                                                                        | N.A.: 0.40                                                                        | N.A.: 0.80                                                                        | N.A.: 0.95                                                                        | N.A.: 1.40                                                                          | N.A.: 1.42                                                                          | N.A.: 1.20                                                                          | N.A.: 1.45                                                                          |
| IM: 1.00                                                                          | IM: 1.00                                                                          | IM: 1.00                                                                          | IM: 1.00                                                                          | IM: 1.52                                                                            | IM: 1.52                                                                            | IM: 1.33                                                                            | IM: 1.52                                                                            |

**Live Cell Imaging**  
Sample-matching refractive index and outstanding time-lapse imaging properties with high NA and WD.

|                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
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|  |  |  |  |  |
| MAG: 25X                                                                           | MAG: 30X                                                                            | MAG: 40X                                                                            | MAG: 60X                                                                            | MAG: 100X                                                                           |
| W.D.: 2.0                                                                          | W.D.: 0.8                                                                           | W.D.: 0.3                                                                           | W.D.: 0.3                                                                           | W.D.: 0.2                                                                           |
| O.F.N.: 26.5                                                                       | O.F.N.: 22.0                                                                        | O.F.N.: 22.0                                                                        | O.F.N.: 22.0                                                                        | O.F.N.: 22.0                                                                        |
| N.A.: 0.85                                                                         | N.A.: 1.05                                                                          | N.A.: 1.25                                                                          | N.A.: 1.30                                                                          | N.A.: 1.35                                                                          |
| IM: 1.33–1.40                                                                      | IM: 1.40                                                                            | IM: 1.40                                                                            | IM: 1.40                                                                            | IM: 1.40                                                                            |

**Cell Culture Observation**  
Expansive working distance for easy cell culture inspection at high resolution.

|                                                                                       |                                                                                       |                                                                                       |                                                                                       |
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|  |  |  |  |
| MAG: 20X                                                                              | MAG: 20X                                                                              | MAG: 40X                                                                              | MAG: 60X                                                                              |
| W.D.: 0.8–1.8                                                                         | W.D.: 6.6–7.8                                                                         | W.D.: 3.0–4.2                                                                         | W.D.: 1.5–2.2                                                                         |
| O.F.N.: 26.5                                                                          | O.F.N.: 26.5                                                                          | O.F.N.: 26.5                                                                          | O.F.N.: 26.5                                                                          |
| N.A.: 0.70                                                                            | N.A.: 0.45                                                                            | N.A.: 0.60                                                                            | N.A.: 0.70                                                                            |
| IM: 1.00                                                                              | IM: 1.00                                                                              | IM: 1.00                                                                              | IM: 1.00                                                                              |

**Macro Imaging**  
High performance objectives with vast Field of view.

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| MAG: 1.25X                                                                         | MAG: 2X                                                                             |
| W.D.: 5.0                                                                          | W.D.: 6.2                                                                           |
| O.F.N.: 26.5                                                                       | O.F.N.: 26.5                                                                        |
| N.A.: 0.04                                                                         | N.A.: 0.08                                                                          |
| IM: 1.00                                                                           | IM: 1.00                                                                            |

**Co-Localization**  
Minimal chromatic aberration with a Confocal Microscope.

|                                                                                     |
|-------------------------------------------------------------------------------------|
|  |
| MAG: 60X                                                                            |
| W.D.: 0.12                                                                          |
| O.F.N.: 22                                                                          |
| N.A.: 1.40                                                                          |
| IM: 1.52                                                                            |

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|  |  |  |  |
| MAG: 20X                                                                              | MAG: 25X                                                                              | MAG: 40X                                                                              | MAG: 60X                                                                              |
| W.D.: 2.0                                                                             | W.D.: 2.0                                                                             | W.D.: 3.3                                                                             | W.D.: 2.0                                                                             |
| O.F.N.: 22.0                                                                          | O.F.N.: 18.0                                                                          | O.F.N.: 26.5                                                                          | O.F.N.: 26.5                                                                          |
| N.A.: 1.00                                                                            | N.A.: 1.05                                                                            | N.A.: 0.80                                                                            | N.A.: 1.00                                                                            |
| IM: 1.33                                                                              | IM: 1.33                                                                              | IM: 1.33                                                                              | IM: 1.33                                                                              |

**High Resolution**  
High NA for super resolution and TIRF imaging.

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| MAG: 60X                                                                            | MAG: 100X                                                                           |
| W.D.: 0.11                                                                          | W.D.: 0.12                                                                          |
| O.F.N.: 22.0                                                                        | O.F.N.: 22.0                                                                        |
| N.A.: 1.50                                                                          | N.A.: 1.50                                                                          |
| IM: 1.52                                                                            | IM: 1.52                                                                            |

**Cleared Tissue Imaging**  
Dedicated MPE design with expansive working distance, high NA and multi-immersion capabilities.

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|  |  |  |  |  |  |
| MAG: 10X                                                                              | MAG: 25X                                                                              | MAG: 25X                                                                              | MAG: 25X                                                                              | MAG: 16X                                                                              | MAG: 25X                                                                              |
| W.D.: 8.0                                                                             | W.D.: 4.0                                                                             | W.D.: 8.0                                                                             | W.D.: 8.0                                                                             | W.D.: 3.0                                                                             | W.D.: 1.0                                                                             |
| O.F.N.: 18 / 27.5                                                                     | O.F.N.: 18 / 27.5                                                                     | O.F.N.: 18 / 27.5                                                                     | O.F.N.: 18 / 27.5                                                                     | O.F.N.: 26.5                                                                          | O.F.N.: 26.5                                                                          |
| N.A.: 0.60                                                                            | N.A.: 1.00                                                                            | N.A.: 0.95                                                                            | N.A.: 1.00                                                                            | N.A.: 0.80                                                                            | N.A.: 1.00                                                                            |
| IM: 1.33–1.52                                                                         | IM: 1.33–1.40                                                                         | IM: 1.33–1.40                                                                         | IM: 1.41–1.52                                                                         | IM: 1.33–1.52                                                                         | IM: 1.45–1.56                                                                         |

\*Not dedicated MPE design but suitable for SPE and MPE