

# Olympus UPLXAPO 20X Objective

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Olympus UPLXAPO 20X Objective, #14-907

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## SPECIFICATIONS

### General

UPLXAPO20X

Model Number:

Compatible Tube Lens Focal Length (mm):  
Focal Length: 180mm

Type:

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Microscope Objective             |                                        |
| Infinity Corrected               | Style:                                 |
| Olympus                          | Manufacturer:                          |
| Spring-loaded                    | Note:                                  |
| Physical & Mechanical Properties |                                        |
| 1.33                             | Field of View (mm):                    |
| 44.45                            | Length excluding Threads (mm):         |
| 28                               | Maximum Diameter (mm):                 |
| 149                              | Weight (g):                            |
| Optical Properties               |                                        |
| 0.17                             | Compatible Cover Glass Thickness (mm): |
| 9.00                             | Focal Length FL (mm):                  |
| 20X                              | Magnification:                         |
| 0.80                             | Numerical Aperture NA:                 |
| 0.42                             | Resolving Power (μm):                  |
| 0.43                             | Depth of Field (μm):                   |
| 0.61                             | Working Distance (mm):                 |
| 400 - 1000                       | Wavelength Range (nm):                 |
| 26.5                             | Field Number (mm):                     |
| 45.06                            | Parfocal Length (mm):                  |
| N/A                              | Immersion Liquid:                      |
| Threading & Mounting             |                                        |
| RMS / 20.32mm x 36 TPI           | Mounting Threads:                      |
| Regulatory Compliance            |                                        |
| <a href="#">View</a>             | Certificate of Conformance:            |

## PRODUCT DETAILS

- High Numerical Aperture (NA) up to 1.45
- Chromatic Aberration Correction from 400 - 1000nm
- Uniform Image Flatness over Large FOVs

Olympus X-Line Extended Apochromat Infinity Corrected Objectives (also referred to as the UPLXAPO series) are Olympus' next generation high performance objectives that simultaneously feature high numerical aperture (NA), broadband chromatic aberration correction, and excellent image flatness. The high numerical aperture (NA) allows for excellent light collection efficiency to better capture faint signals, enabling a shorter exposure time and higher contrast. The broad chromatic aberration correction compensates for the wavelength-dependent spatial shift of colors to achieve excellent color reproduction. These objectives also achieve high image flatness from the center to the edges of images over large fields of view (FOV), making them ideal for image stitching and quantitative image analysis. Olympus X-Line Extended Apochromat Infinity Corrected Objectives are used in demanding life science and clinical applications including pathology, fluorescence microscopy, multicolor or widefield fluorescence imaging, confocal or super resolution microscopy, and whole slide imaging.

## TECHNICAL INFORMATION

| Wavelength $\lambda$ (nm) | Transmittance $T$ (%) |
|---------------------------|-----------------------|
| 300                       | 0                     |
| 350                       | 0                     |
| 400                       | 90                    |
| 450                       | 90                    |
| 500                       | 92                    |
| 550                       | 93                    |
| 600                       | 90                    |
| 700                       | 85                    |
| 800                       | 78                    |
| 900                       | 65                    |
| 1000                      | 50                    |

|                                              | Stock # | A     | B    | C    | D    | E    | F    | G   | WD    |
|----------------------------------------------|---------|-------|------|------|------|------|------|-----|-------|
| Olympus UPLXAPO 4X Objective                 | #14-905 | 31.89 | -    | -    | 15.4 | 15.4 | 28   | 4.7 | 13.0  |
| Olympus UPLXAPO 10X Objective                | #14-906 | 41.78 | 3.7  | 4.28 | 9.6  | 19.4 | 28   | 4.6 | 3.1   |
| Olympus UPLXAPO 20X Objective                | #14-907 | 44.28 | 3.39 | 2.88 | 10.2 | 18.6 | 28   | 4.8 | 0.61  |
| Olympus UPLXAPO 40X Objective                | #14-908 | 44.71 | 4.21 | 2.11 | 7.5  | 20.3 | 31.5 | 4.9 | 0.18  |
| Olympus UPLXAPO 60X Oil Immersion Objective  | #14-909 | 44.74 | 2.1  | 2.84 | 10   | 19.3 | 31.5 | 4.9 | 0.15  |
| Olympus UPLXAPO 100X Oil Immersion Objective | #14-910 | 44.76 | 2.1  | 3.06 | 7.5  | 19.1 | 30.5 | 4.8 | 0.135 |

45.06 (Parfocal Length)

Technical drawing of an objective lens showing various dimensions labeled A through G and WD. The drawing includes a side view and a cross-sectional view. The side view shows the lens barrel with a diameter of Ø20.32. The cross-sectional view shows the internal components and the lens element. The dimensions are defined as follows: A is the distance from the mounting flange to the lens element; B is the distance from the mounting flange to the rear lens element; C is the distance from the mounting flange to the front lens element; D is the distance from the mounting flange to the rear lens element; E is the distance from the mounting flange to the front lens element; F is the total length of the lens; G is the distance from the mounting flange to the rear lens element; WD is the working distance.