

UIS2

The advanced UIS2 system delivers high performance over a wider wavelength spectrum.



UIS2 optics inherit high expandability

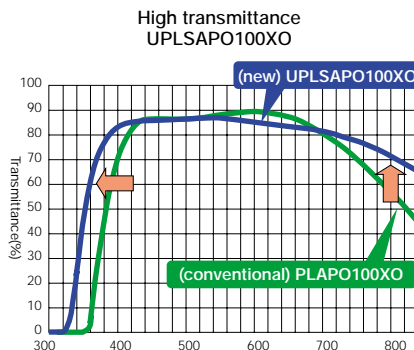
As heir to Olympus' infinity-corrected optical system, in which the tube lens is built into the observation tube, UIS2 optics display no image deterioration even when many different optical components or equipment are inserted in the parallel light path. This inherent expandability gives users ample freedom to construct the system in a way that meets their specific requirements.

UW (Ultra wideband) multi-coatings reduces autofluorescence and improves S/N ratio

By using carefully selected raw materials for glass, and applying advanced UW multi-coatings technology, Olympus has reduced objective autofluorescence and significantly improved the S/N ratio.

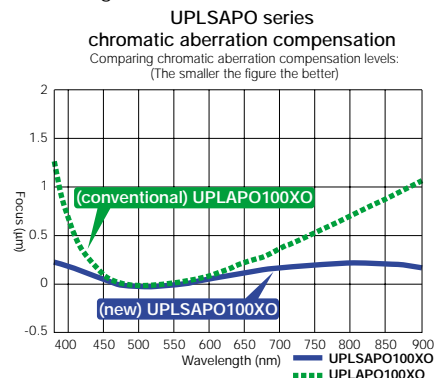
Flat, high transmission over wide wavelength range from UV to IR

UW multi-coatings also yields a flat, high transmission over a wide wavelength range, ensuring high performance in research tasks using different types of fluorochromes.



Complete chromatic aberration compensation up to near infrared region

UPLSAPO objectives completely eliminate chromatic aberration up to the near infrared region, matching the ability of Super Apochromat objectives to provide clear images without overlapping colors or color shift. As a result, a single objective can perform imaging from UV to IR wavelengths.



UIS2/UIS Series Objectives

Universal objectives



UPLSAPO series

The top-performance universal Plan Super Apochromat objective offer an unbeatable solution to every kind of digital imaging need.



UPLFLN series

These affordable Semi-Apochromat universal objectives deliver superb resolution, contrast and flatness for any microscopic technique.



UPLFL-P series

These Strain-free Semi-Apochromat universal objectives reduce internal strain to an absolute minimum and are best suited for polarizing and Nomarski DIC microscopies.

Brightfield objectives



PLAPON series

Designed for unsurpassed resolution and contrast, these Plan Apochromat objectives keep chromatic aberration down to an absolute minimum.



PLN series

These cost-effective Achromat objectives ensure field flatness up to F.N. 22 and are widely used in research, educational and routine work applications.



PLFL series

Despite its high magnifying power, the PLFL100X is an easy-to-use, non-oil immersion type objective. The PLFL0.5X is designed for observation of specimens up to 53mm in diameter, enabling the recording and observation of such specimens as entire brain slices or small animals.

Objectives for special purpose



UPLFLN-PH series

The newly designed phase annuli reduce flare and halo to a minimum and ensure high resolution and contrast for unstained specimens, i.e. living cells and microorganisms.



No cover objectives

These no cover objectives are specially designed for microscopy without a cover slip such as for blood smear specimens.



UAPO/340 series

These objectives feature a highest transmission of 340nm wavelength light, ensuring maximum performance in fluorescence microscopy through UV excitation including CA²⁺ photometry.

Objectives for BX51WI/BX61WI



UMPLFLW, LUMPLFLW series

These objectives address the need for high transmission from the near UV to visible light. For ratio imaging (fura-2, 340nm transmission requirement) fluorescence and DIC observation.



LUMPLFLW/IR series

These objectives are specially designed for visible band near IR spectral regions. Near IR-DIC imaging deep within thick brain sections can be observed.



XLFLUOR/340 series, XLUMPLFL20XW

XLFLUOR/340 series objectives is designed for low magnification fluorescence observation. High N.A. long W.D. XLUMPLFL20XW objective allows the measurement of cell membrane electric potential.

Objectives for inverted microscopes



LUCPLFLN-PH series

These objectives are exclusively designed for culture specimens. These objectives are exclusively designed for culture specimens. An excellent phase-contrast image is assured regardless of the thickness and material of the vessel.



LUCPLFLN series

These Semi-Apochromat objectives are dedicated for tissue culture and offer excellent contrast and resolution in brightfield, Nomarski DIC and fluorescence observations.



LCACHN series

These Achromat phase-contrast objectives are designed for cell culture observations and are best suited for various clinical examinations and cell testing.

UIS2 objectives *

* All UIS2 objectives and WHN eyepieces: lead-free eco-glass

Description		N.A.	W.D. (mm)	F.N.	Cover glass	Immersion	Spring	Correction ring	Iris diaphragm	Water proof & oil proof function	For upright microscope	For inverted microscope
UPLSAPO	UPLSAPO 4X	0.16	13	26.5	—						○	○
	UPLSAPO 10X	0.40	3.1	26.5	0.17						○	○
	UPLSAPO 20X	0.75	0.6	26.5	0.17		○				○	○
	UPLSAPO 40X	0.90	0.18	26.5	0.11-0.23		○	○			○	○
	UPLSAPO 60XW	1.20	0.28	26.5	0.15-0.2	Water	○	○		○	○	○
	UPLSAPO 60XO	1.35	0.15	26.5	0.17	Oil	○			○	○	○
	UPLSAPO 100XO	1.40	0.13	26.5	0.17	Oil	○			○	○	○
PLAPON	PLAPON 1.25X	0.04	5	26.5	—						○	
	PLAPON 2X	0.08	6.2	26.5	—						○	
	PLAPON 60XO	1.42	0.15	26.5	0.17	Oil	○			○	○	○
	PLAPON 60XOTIRFM	1.45	0.1	26.5	0.13-0.19	Oil	○	○		○	○	○
UPLFLN	UPLFLN 4X	0.13	17	26.5	—						○	○
	UPLFLN 10X	0.30	10	26.5	—						○	○
	UPLFLN 20X	0.50	2.1	26.5	0.17		○				○	○
	UPLFLN 40X	0.75	0.51	26.5	0.17		○				○	○
	UPLFLN 40XO	1.30	0.2	26.5	0.17	Oil	○			○	○	○
	UPLFLN 60X	0.90	0.2	26.5	0.11-0.23		○	○			○	○
	UPLFLN 60XOI	1.25-0.65	0.12	26.5	0.17	Oil	○		○	○	○	○
	UPLFLN 100XO	1.30	0.2	26.5	0.17	Oil	○			○	○	○
	UPLFLN 100XOI	1.3-0.6	0.2	26.5	0.17	Oil	○		○	○	○	○
	UPLFLN 4XPH	0.13	0.17	26.5	—						○	
	UPLFLN 10XPH	0.30	10	26.5	—						○	
	UPLFLN 20XPH	0.50	2.1	26.5	0.17		○				○	
	UPLFLN 40XPH	0.75	0.51	26.5	0.17		○				○	
	UPLFLN 60XOIPH	1.25-0.65	0.2	26.5	0.17	Oil	○		○		○	
	UPLFLN 100XOPH	1.30	0.2	26.5	0.17	Oil	○				○	
PLN	PLN 2X	0.06	5.8	22	—						○	
	PLN 4X	0.10	18.5	22	—						○	
	PLN 10X	0.25	10.6	22	—						○	
	PLN 20X	0.40	1.2	22	0.17		○				○	
	PLN 40X	0.65	0.6	22	0.17		○				○	
	PLN 50XOI	0.90-0.50	0.2	22	—	Oil	○		○		○	
	PLN 100XO	1.25	0.15	22	—	Oil	○				○	
PLN-PH	PLN 10XPH	0.25	10.6	22	—						○	
	PLN 20XPH	0.40	1.2	22	0.17						○	
	PLN 40XPH	0.65	0.6	22	0.17		○				○	
	PLN 100XOPH	1.25	0.15	22	—	Oil	○				○	
PLN & ACHN-P	PLN 4XP	0.10	18.5	22	—						○	
	ACHN 10XP	0.25	6	22	—						○	
	ACHN 20XP	0.40	3	22	0.17						○	
	ACHN 40XP	0.65	0.45	22	0.17		○				○	
	ACHN 100XOP	1.25	0.13	22	—	Oil	○				○	
LUCPLFLN	LUCPLFLN 20X	0.45	6.6-7.8	22	0-2			○				○
	LUCPLFLN 40X	0.60	2.7-4	22	0-2			○				○
	LUCPLFLN 60X	0.70	1.5-2.2	22	0.1-1.3			○				○
	LUCPLFLN 20XPH	0.45	6.6-7.8	22	0-2			○				○
	LUCPLFLN 20XRC	0.45	6.6-7.8	22	0-2			○				○
	LUCPLFLN 40XPH	0.60	3.0-4.2	22	0-2			○				○
	LUCPLFLN 40XRC	0.60	3.0-4.2	22	0-2			○				○
	LUCPLFLN 60XPH	0.70	1.5-2.2	22	0.1-1.3			○				○
UPLFLN-PH	UPLFLN 4XPH	0.13	17	26.5	—							○
	UPLFLN 10XPH	0.30	10	26.5	—							○
UPLFLN-PHP	UPLFLN 4XPHP	0.13	16.4	22	—							○
CPLFLN	CPLFLN 10XPH	0.30	9.5	22	1							○
	CPLFLN 10XRC	0.30	9	22	1.5							○
LCACHN	LCACHN 20X PH	0.40	3.2	22	1							○
	LCACHN 20X PHP	0.40	3.2	22	1							○
	LCACHN 20XRC	0.40	2.8	22	1.5							○
	LCACHN 40XPH	0.55	2.2	22	1							○
	LCACHN 40XPHP	0.55	2.2	22	1							○
	LCACHN 40XPHP	0.55	1.9	22	1.5							○
CACHN & CPLN	CACHN 10XPHP	0.25	8.8	22	1							○
	CPLN 10XPH	0.25	10	22	1							○
	CPLN 10XRC	0.25	9.7	22	1.5							○

UIS objectives

Description		N. A.	W.D. (mm)	F. N.	Cover glass	Immersion	Spring	Correction ring	Iris diaphragm	Water proof & oil proof cap	For upright microscope	For inverted microscope
UPLAPO	UPLAPO 10XO3	0.40	0.24	26.5	0.17	Oil	○			○	○	○
	UPLAPO 10XW3	0.40	0.43	26.5	0.17	Water	○			○		○
	UPLAPO 20XO3	0.80	0.19	26.5	—	Oil	○			(○)	○	○
	UPLAPO 40XOI3	1.00-0.50	0.12	26.5	—	Oil	○		○	(○)	○	○
PLAPO	PLAPO 40X	0.95	0.13	26.5	0.11-0.23		○	○			○	○
UPLFL-P	UPLFL 4XP	0.13	13	26.5	—						○	
	UPLFL 10XP	0.30	3.1	26.5	—						○	
	UPLFL 20XP	0.50	1.6	26.5	0.17		○				○	
	UPLFL 40XP	0.75	0.51	26.5	0.17		○				○	
	UPLFL 100XO3P	1.30	0.1	26.5	0.17	Oil	○				○	
PLFL	PLFL 0.5X	0.02	7	26.5	—							
	PLFL 100X	0.95	0.2	26.5	0.14-0.2		○	○			○	
UAPO	UAPO 10X/340											
	UAPO 20X3/340	0.75	0.55	22	0.17		○			○		○
	UAPO 40X3/340	0.90	0.2	22	0.11-0.23		○	○		○		○
	UAPO 40XOI3/340	1.35-0.65	0.1	22	0.17	Oil	○		○	○		○
	UAPO 20XW3/340	0.70	0.4	22	0.17	Water	○			○		○
	UAPO 40XW3/340	1.15	0.25	22	0.13-0.25	Water	○	○		○		○
APO	APO 100XOHR	1.65	0.1	22	0.15	Oil	○			○		○
Low magnification fluorescence	XLFLUOR 2X/340	0.14	21**	22	0.5 (Water)							
	XLFLUOR 4X/340	0.28	29.5**	22	0.5 (Water)							
Super high N.A.	XLUMPLFL 20XW	0.95	2	22		Water						
No cover objective	MPLAPO 50X	0.95	0.3		0		○				○	
	MPLAPO 60X	0.90	0.4		0		○				○	
	MPLAPO 100XO	1.40	0.1		0	Oil	○				○	
	UMPLFL 40X	0.75	0.63		0		○				○	
	UMPLFL 50X	0.80	0.66		0		○				○	
	UMPLFL 100X	0.95	0.31		0		○				○	
	UMPLFL 10XW	0.30	3.3	26.5	—	Water					○	
	UMPLFL 20XW	0.50	3.3	26.5	—	Water					○	
	UMPLFL 40XW	0.80	3.3	26.5	0	Water					○	
	UMPLFL 60XW	0.90	2	26.5	0	Water					○	
	LUMPLFL 40XW/IR2	0.80	3.3	26.5	0	Water					○	
	LUMPLFL 60W/IR2	0.90	2	26.5	0	Water					○	
	LUMPLFL 100XW											
LSM objective	PLAPO 40XWLSM	0.90	0.16	22	0.17	Water	○			○	○	○
	PLAPO 60XWLSM	1.00	0.15	22	0.17	Water	○			○	○	○
	PLAPO 40XOLS	1.10	0.13	22	0.17	Oil	○			○	○	○

** Include 5mm water (○): oil proof cap applicable