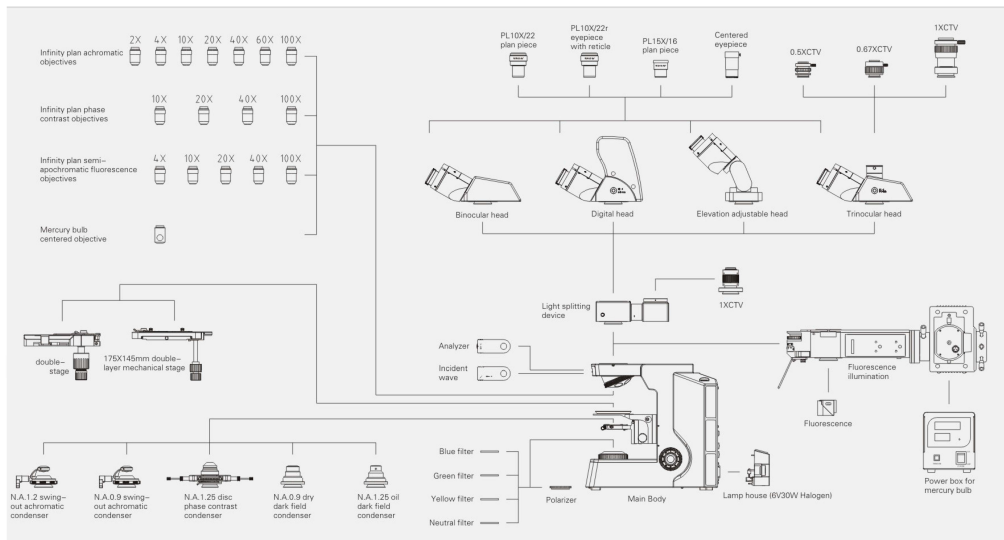


Vivid series system diagram



Vivid system specification

Optical system	Infinity color corrected optical system
Viewing head	Efficient infinity gemel binocular head, 30° ~ 60° elevation adjustable; 360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable 30° inclined gemel binocular head; 360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable 30° inclined gemel trinocular head, splitting ratio R:T=50:50 or R:T=0:100; 360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable 30° inclined digital binocular head; 360° rotatable; interpupillary adjustable distance: 54–75mm; diopter +/-5 adjustable
Eyeiece	High eye-point wide field plan eyepiece PL10x22mm, PL15x16mm
Objective	Infinity plan achromatic / phase contrast /semi-apochromatic fluorescence objectives
Nosepiece	Revolving quadruple nosepiece/quintuple nosepiece
Body	Coaxial focus system with upper limited and tension adjustment; coarse range: 30mm; fine precision: 0.002mm; focus height adjustable
Stage	175x145mm double layer mechanical stage, rotatable; with special fabrication processing, anti-corrosive and anti-friction; moving range: 76x50mm, precision : 0.1mm 187x167mm double layer mechanical stage, moving range: 80x55mm, precision: 0.1mm
Condenser	N.A.0.9 swing-out type achromatic condenser; N.A.1.2/0.22 swing-out type achromatic condenser; N.A.1.25 quintuple phase contrast condenser; N.A.0.9 dry dark field condenser; N.A.1.25 oil dark field condenser
Reflected fluorescence illumination system	XYRFLP reflected fluorescence Koehler illumination with alterable field diaphragm and aperture diaphragm (center adjustable) XYLH100HG mercury lamp house with viewfinder; the center and focal length of viewfinder & filament are adjustable U2-RFLT100 digital power control box of mercury lamp, wide voltage: 100–240VAC Imported OSRAM 100W DC mercury bulb; disc fluorescence filers: UV/VB/G; 30ND25-RFLP / 30ND50-RFLP attenuation plate
Transmitted illumination system	Wide voltage: 100–240V, built-in transmitted Koehler illumination; 6V/30W halogen, pre-centered, intensity adjustable
Polarizing kit	Analyzer 360° rotatable; polarizer and analyzer can be out of light path
Filter	Yellow, green, blue, neutral filter
Light splitting device	R:T=70:30 or 100:0, special 1x CTV
Camera adapter	0.5xCTV, 0.67xCTV, 1xCTV

The Llumins Vivid, boasting excellent optical performance and a very stable body structure is perfect for clinical diagnostics, research and biomedical applications.



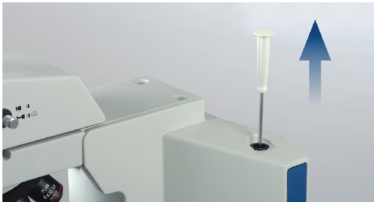
New structure design, optimized optical system



Stable Body Structure

The newly designed Y-shaped body, all metal casted under high pressure is stable and robust. There is no dithering under high magnification ensuring a crisp still image even under multi-channel fluorescence.

Convenient allen key storage for quick access:



Movable working stage

175x145mm double layer mechanical stage is fitted with right sided co-axial drive and a double slide retainer clip. The whole stage can rotate 90 degrees . The 187x167mm stage is fitted with left or right sided co-axial drive. Both stages are made of oxidised metal. Moving range: 80x55mm, precision: 0.1mm.

Koehler Illumination System

A uniform bright field for every magnification is produced by the 6V 30W transmitted system. The Llumins Vivid features an achromatic flip-down condenser.

Incline Adjustable Head (optional)

The Vivid boast multiple head options which includes a trinocular and incline adjustable head of 30-60 degrees.



LPLAN series infinity plan achromatic objectives, designed for observing H&E slides and biological cell slices, present sharp contrasted images and works well even in fluorescence observation.



LPLAN series infinity phase contrast objectives, improve clarity and contrast, especially suitable to observe colorless or light-colored cells.

PLAN -FLUOR series infinity plan semi-apochromatic objectives, is the best choice for fluorescence observations. Adopting crystal optic materials, perfectly corrects all kinds of achromatic aberrations. Large numerical aperture design presents high resolution, high contrast micro-images. In fluorescence observation, the image is clear and bright while the background is pure black prominent in ultraviolet fluorescence.

Vivid Objectives

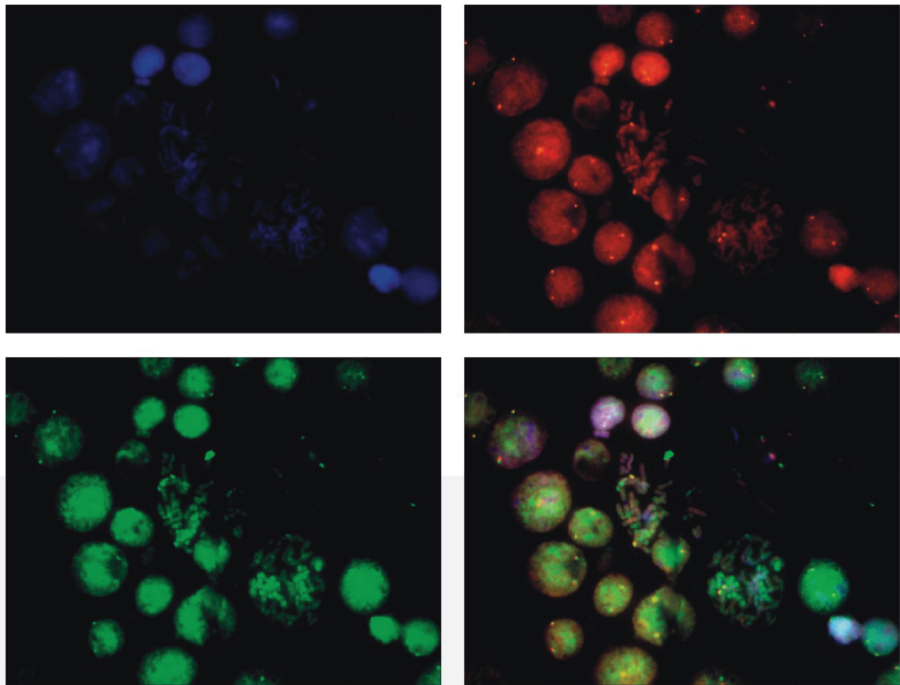
Series	Magnification	N.A.	W.D.	F.N.	Cover glass thickness	Immersion	Spring
Plan series	Plan2X	0.06	5.0	22	—	/	/
	Plan4X	0.10	11.9	22	0.17	/	/
	Plan10X	0.25	12.1	22	0.17	/	/
	Plan20X	0.40	1.5	22	0.17	/	/
	Plan40X	0.65	0.36	22	0.17	/	Yes
	Plan60X	0.85	0.3	22	0.17	/	Yes
Plan PH series	Plan100X	1.25	0.18	22	0.17	Oil	Yes
	Plan PH10X	0.25	12.1	22	0.17	/	/
	Plan PH20X	0.40	1.5	22	0.17	/	/
	Plan PH140X	0.65	0.36	22	0.17	/	Yes
Plan Fluor series	Plan PH100X	1.25	0.18	22	0.17	Oil	Yes
	Plan Fluor4X	0.13	18.5	25	0.17	/	/
	Plan Fluor10X	0.30	10.6	25	0.17	/	/
	Plan Fluor20X	0.50	2.33	25	0.17	/	/
	Plan Fluor40X	0.75	0.6	25	0.17	/	/
	Plan Fluor100X	1.28	0.21	25	0.17	Oil	/



Leading fluorescence microscopy

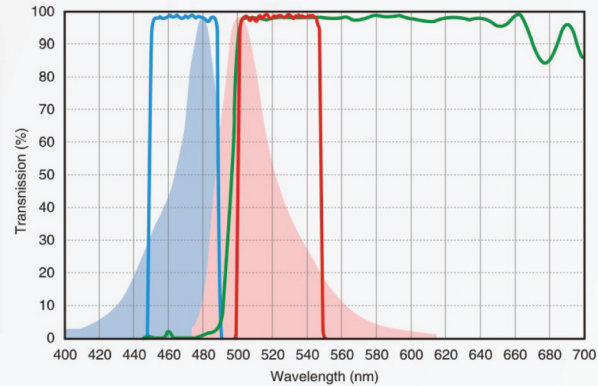
Semi-apochromatic fluorescence objectives

The new professional infinity plan semi-apochromatic fluorescence objectives are the best choice for fluorescence observation. The 25% larger numerical aperture and aberration correction presents clearer, brighter images. High quality environmentally friendly optical materials maintain excellent fluorescence.



High-performance fluorescence filters

Imported high performance fluorescence filters have high spectral transmission, good depth and gradient of spectral lines with no cross colour

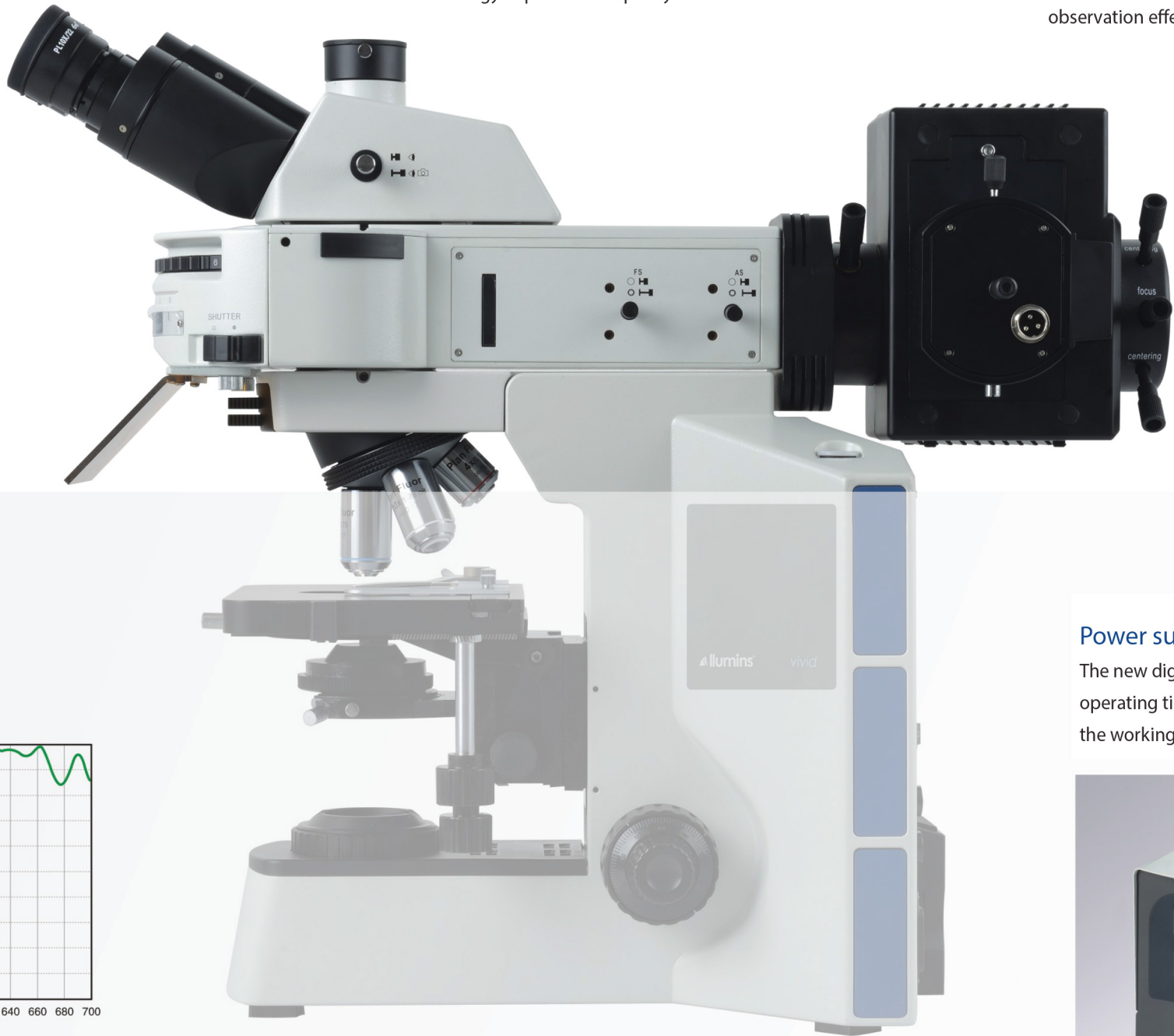


Semi-apochromatic fluorescence objectives

Newly designed high-precision disc switching mechanism makes it easy to change filters. It guarantees the exact position of the switched filter and can be equipped with up to six fluorescent filters. The drift-less high-performance fluorescence filter system ensures accurate results of FISH. High transmittance of spectrum without cross color and a high S/N ratio promotes excellent fluorescent image contrast. The stray light elimination technology improves the quality of fluorescent observation.

Efficient illumination system

High-graded SiO₂ quartz, with refractory, corrosion resistant and high UV through rate makes the illumination more uniform and brighter. High temperature resistant composite plastic with heat insulation effectively prevents the heat from transferring to the body. The alterable field diaphragm with adjustable centre effectively reduces the stray light to obtain the best observation effect.



Power supply for mercury lamp

The new digital power control system, displaying operating time and current value, clearly show you the working state of the mercury lamp.

