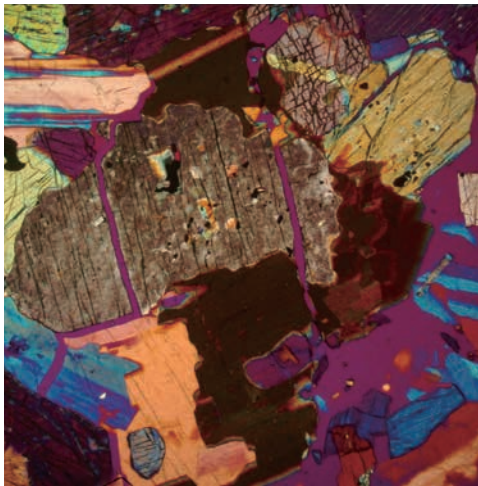
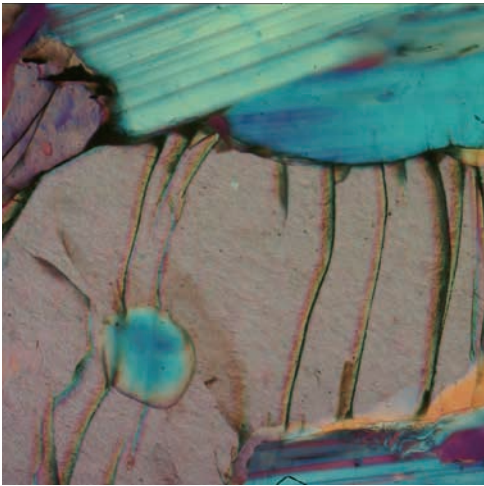


Sunny Instruments

CX40P Polarizing Microscope



CX40P

Solid

Flexible

Elegant

Environmental

Overall Advantages

- Y shape roof structure, high rigidity and high stability.
- Building block concept, detachable and flexible.
- Special surface processing technics, beautiful and practical.
- Optimized illumination system, energy efficiency and environmental protection.

Y shape frame adopts the design principle of roof. As the main load bearing part, solid column structure eliminates most impact force to ensure stable operation. New designed lamp-house inserts into the concave part on the back as a tail fin, imaginative and beautiful. Surface uses special spray powder, protective, decorative, wear and solvent resistant.

New designed reflected and transmitted lamp-house with 12V/50W halogen bulb, the center of the filament is preset. Upgraded illumination system enhances the service efficiency of light. 100–240V wide voltage system with stable output voltage lengthens the life time of bulbs. Electrical system with main switch decreases consume in standby.

The innovation of technology creates vivid visual experience. New designed CX40P improves the stress free system and reflected illumination system, more vivid image is available as the polarizing performance ameliorates. Green manufacture in full operation based on HSF environmental policy. With various ergonomics designs, easy and comfortable operation is available.



6 Kinds of Designs



Intermediate device for professional conoscopic observation, with internal Bertrand lens and analyzer, λ & $\lambda/4$ & quartz wedge attachable.

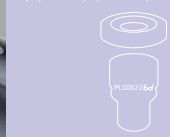
- Centerable Bertrand with rotating switch, focusing recyclable, make it easier to observe interference image.
- Pluggable analyzer, 360° rotatable, 2° increment, 6" precision.

Reflected illuminator with polarizer and beam splitter, field and aperture diaphragms adjustable.

- Pluggable polarizer is removable for ordinary observation and easy to be replaced
- Removable beam splitter is designed for improving the image quality by all the transmitted light concentrated in binocular.



Eye/Eyepiece cup



- Eyepiece cup can be turnup to avoid external stray light.
- 22mm wide field of view increases the efficiency of targeting.

For polarizing observation, the vibrating axis of the polarizer and analyzer in microscope should be orthogonal. In another word, the east-west vibrating axis and the south-north axis should be in line with the vertical and horizontal scale line of reticle in the eyepiece. Therefore, it is necessary to have a bayonet for fixing the eyepiece with reticle.

Enhance Detecting Performance



Big circle metal stage, 160mm diameter, 360° rotatable, can be positioned with lock screw. The stage is anti-corrosive and anti-friction as it is coated with graphite. The scale is silk-printed by special material which won't be fade or wear-out after long-term operation.

N.A 1.2 Swing-out achromatic condenser, center adjustable, horizontally insert, vertically raise. Adjustable aperture diaphragm with scale remedies the disadvantage of fixed condenser, provides ample uniform light and clear image for different magnification observations.

Low position focusing knob for comfortable operation. Upper limited and tension adjustable functions is helpful to protect slides and objective lens.



Professional measuring stage is attachable.

2 Sets of Objectives



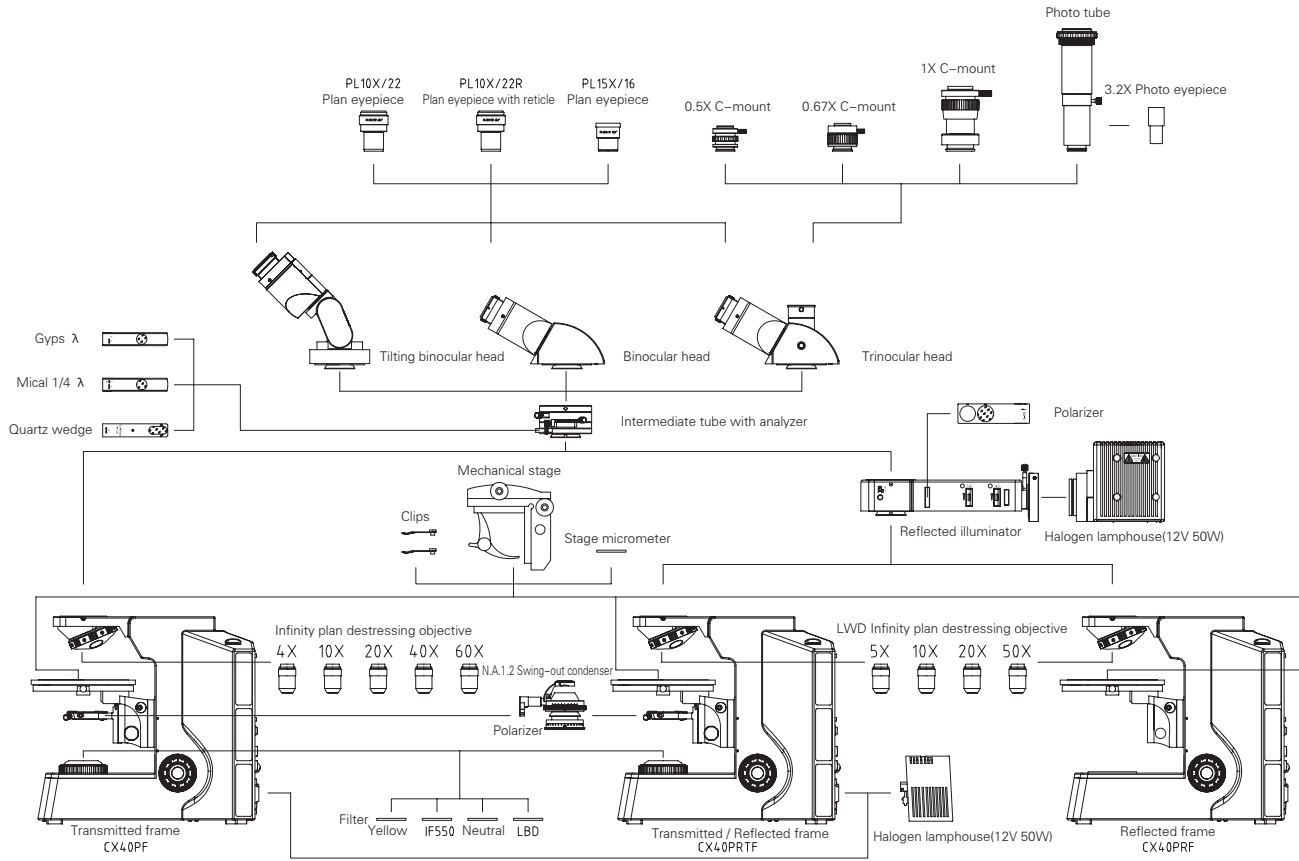
Concentrated with full of sincerity and intelligence, CX40P polarizing microscope adopts LMPlan POL series lenses. New producing and assembling technology of these objectives eliminate the stress, which is generated in the process of heat treatment, gluing and alignment. As the background of field of view is almost black in orthogonal state, LMPlan POL is a representative work of craftsmanship, economy and green, especially well done for reflected observation.

Item	Magnification	N.A.	W.D.(mm)	Cover glass(mm)	Parfocal distance(mm)	Conjugate distance(mm)
LMPlan POL	5X	0.15	10.80	0	45	∞
	10X	0.30	10.00			
	20X	0.45	4.00			
	50X	0.55	7.90			
Item	Magnification	N.A.	W.D.(mm)	Cover glass(mm)	Parfocal distance(mm)	Conjugate distance(mm)
Plan POL	4X	0.10	20.80	0.17	45	∞
	10X	0.25	5.30			
	20X	0.40	1.60			
	40X	0.60	0.36			
	60X	0.85	0.47			

CX40P Specifications

Optical system	Infinity color corrected optical system
Viewing head	30° inclined gemel binocular head, interpupillary distance 54~75mm, left diopter ± 5 adjustable
	30° inclined gemel trinocular head, interpupillary distance 54~75mm, left diopter ± 5 adjustable, splitting ratio R:T=100:0 or 50:50
	30° ~60° tilting binocular head, interpupillary distance 54~75mm, left diopter ± 5 adjustable
Eyepiece	High eye-point wide field plan eyepiece PL10X22mm
	High eye-point wide field plan eyepiece PL10X22mm, with reticle
	High eye-point wide field plan eyepiece PL15X16mm
Objective	LWD plan destressing objective 5X/10X/20X/50X
	Plan destressing objective 4X/10X/20X/40X/60X
Intermediate tube	With removable internal Bertrand lens, analyzer and compensators. Bertrand lens with totating switch, centerable, focusing recyclable.
Analyzer	Pluggable analyzer, 360° rotatable, 2° increments, precision 6', with locking device
Compensator	Gyps 1 λ (Φ18mm, optical path difference 551nm) ; Mical 1/4 λ (Φ18mm,optical path difference 147.3nm); Quartz Wedge(I – IV)
Nosepiece	Revolving centerable quadruple nosepiece
	Revolving centerable quintuple nosepiece
Focus adjustment	Transmitted frame/ Transmitted & Reflected frame/ Reflected frame; Coarse focus system with upper limited and tension adjustment, coarse range: 30mm, fine precision 0.002mm
Stage	Dia.160mm circular metal stage, graphite coating, anti-corrosive and anti-friction, 360° rotatable, 1° increment, precision 6'
Condenser	Swing-out achromatic condenser(N.A 1.2), with 360° rotatable polarizer, four adjustable scale: 0/90/180/270
Reflected illumination	Wide-range voltage 100V~240V_AC50/60Hz, 12V/50W halogen lamp house, imported bulb, center presetting, reflected illuminator with LBD filter and pluggable polarizer, field diaphragm and aperture diaphragm adjustable
Transmitted illumination	Koehler illumination, wide-range voltage 100V~240V_AC50/60Hz. 12V/50W halogen lamp house, imported bulb, center presetting, with iris diaphragm
Others	Yellow/neutral/IF550/LBD filter for transmitted light
	Digital camera adapters:1X、 0.5X、 0.67X focusing C-mount; 3.2X photo eyepiece; photo tube with PK or MD mount; camera relay lens
	Mechanical stage, moving range: 30mmX40mm; High precision micrometer, 0.01mm increment

CX40P Series system diagram



CX40P Dimensions: mm

