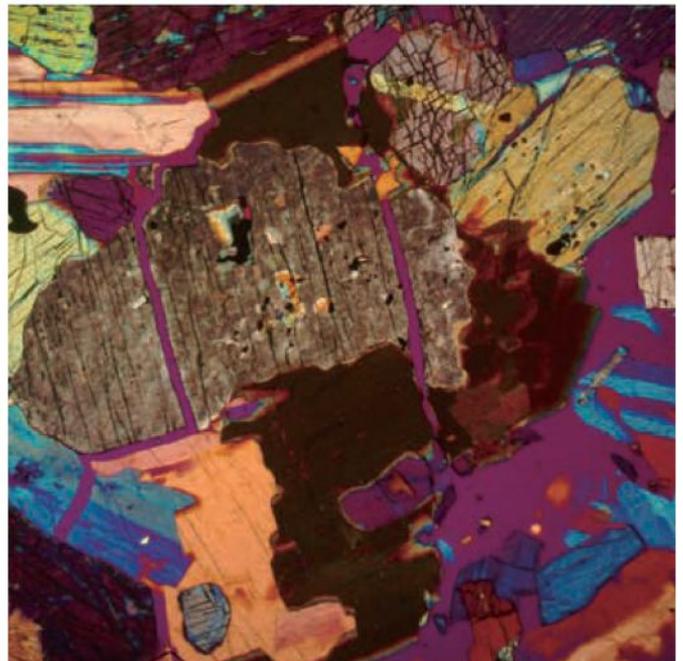
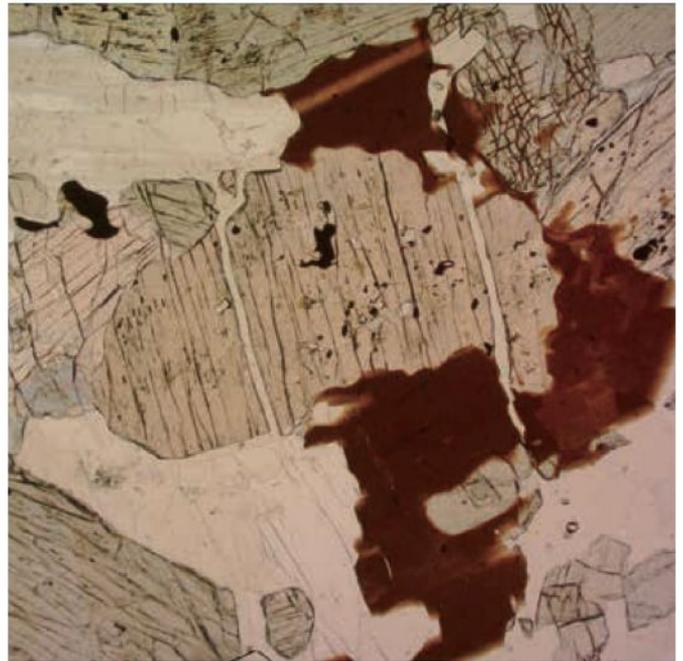
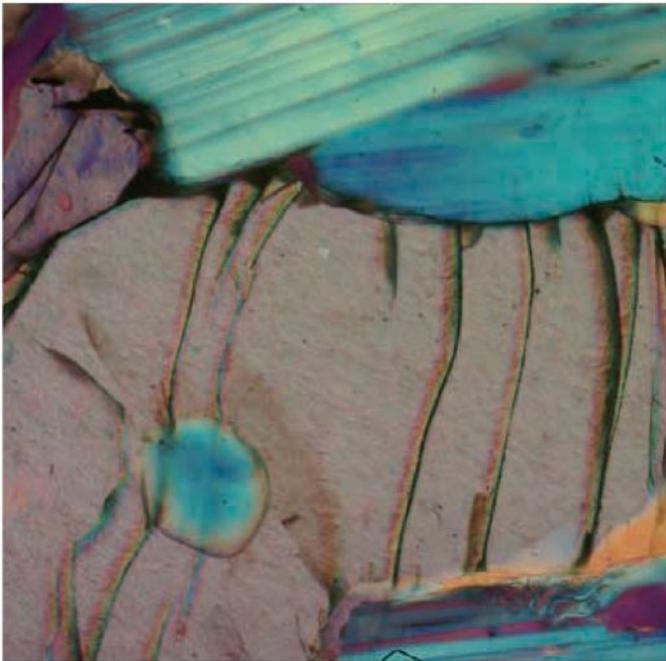




CX40P

Polarising Microscope



Uncompromised Quality



ISO 14001
Certification



ISO 9001
Certification



ISO 13485
Certification



IECQ QC080000
BUREAU VERITAS
Certification



Design and production adheres to ISO14001, ISO9001, ISO13458 International Quality Standards.



Powerful and flexible

The CX40 range features a Y shaped frame for high stability and rigidity. The CX40P features an infinity optical system with improved optical de-stressing for a superior image quality, and high quality intermediate device for accurate conoscopic observation.

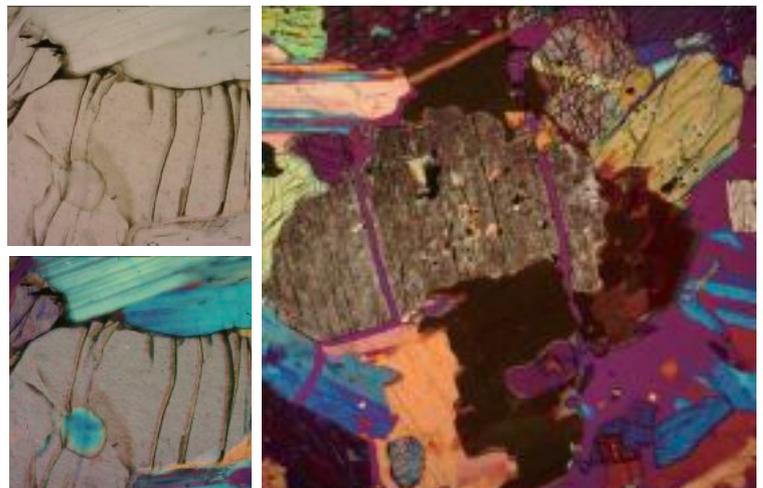
The CX40P provides a high-quality cost-effective solution for metallography analysis and industrial inspection.

Excellent Imaging, Ergonomics, & Engineering

The combination of an improved infinity colour corrected optical system, special lens coatings, and carefully crafted de-stressed objectives results in an excellent image.

Attention to detail continues to the placement of the controls, the engineering of the rotating stage, and even the long life, durable process for the stage markings.

All in all, this a high performance microscope without the high performance price.





Polarised Light Features

The CX40P is designed to work with or without an intermediate device for full-featured polarised light microscopy. The device allows for the addition of an analyser, a Bertrand lens, and a set of compensators (gypsum λ , mica $\frac{1}{4}\lambda$, and quartz).

The eyepieces are also lockable to ensure that they maintain orthogonality with the rest of the optical train. They are available in 10 \times and 15 \times magnifications.

Also, the condenser (NA1.2) has a swing top and an integrated, 360 $^\circ$ rotatable polariser.

A professional mechanical stage attachment is also available.

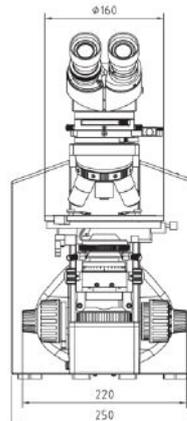
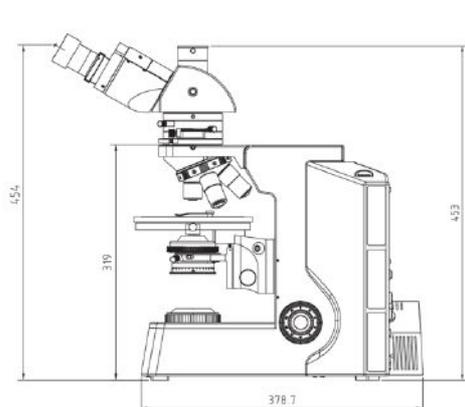
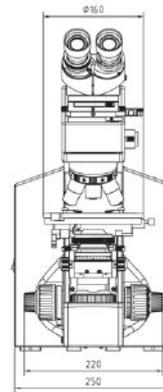
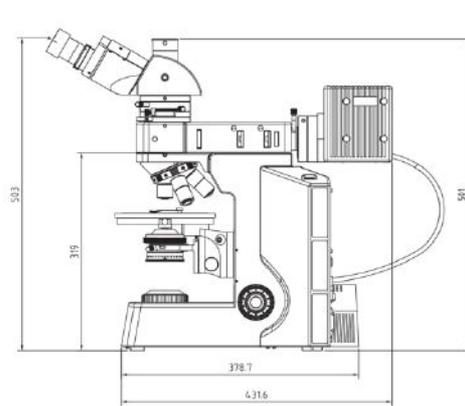
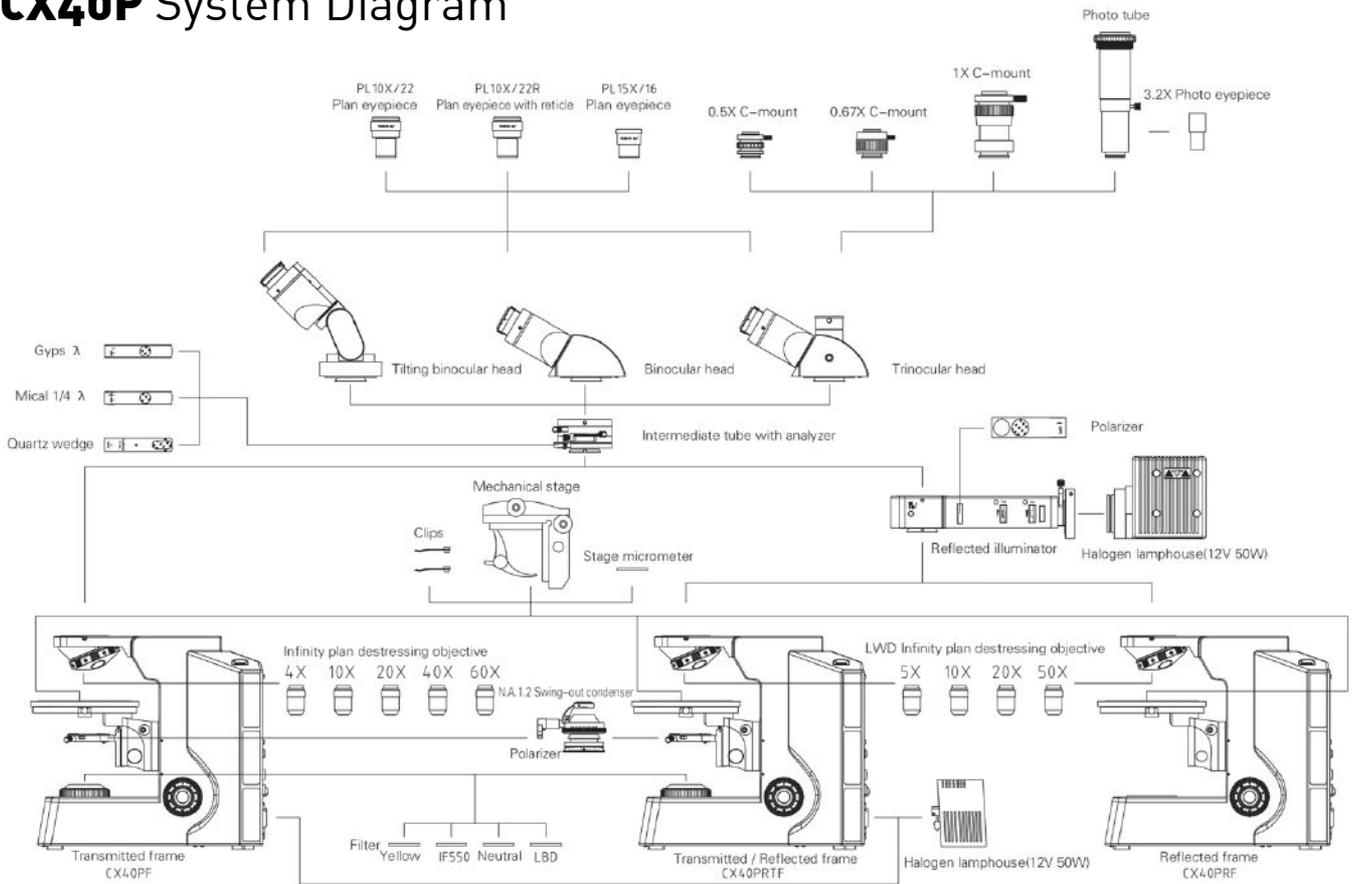
High Quality Objective Options

Any deformation or stress in optical elements results in a reduction in image quality and adds unwanted artefacts when used under polarised light. Both our Plan Pol and LMPlan Pol objective sets have been carefully engineered, assembled, and tested to ensure the high possible image quality.

We are especially proud of the LMPlan Pol objectives which give a near-black field as a result of the artful blending of craft and science.



CX40P System Diagram



CX40M

Technical Specifications

VARIANT	TRANSMITTED & REFLECTED
Viewing Head	30° inclined gemel trinocular head, interpupillary distance: 54mm~75mm, diopter ± 5 adjustable, splitting ratio R:T=100:0 or 50:50
Eyepieces	High eyepoint 10× 22mm with optional reticule, High eyepoint 15× 16mm also available
Objectives (LM Plan Pol)	Infinity colour corrected, destressed: 5× NA0.15 WD10.8mm, 10× NA 0.30 WD10mm, 20× NA0.45 WD4mm, 50× NA0.55 WD7.9mm, 100× NA0.80 WD2.1mm
Objectives (Plan Pol)	Infinity colour corrected, destressed: 4× NA0.10 WD20.8mm, 10× NA 0.25 WD5.30mm, 20× NA0.40 WD1.60mm, 40× NA0.60 WD0.36mm, 60× NA0.85 WD0.47mm
Intermediate Tube	With removable internal Bertrand lens, analyser and compensators.
Analyzer	Removable 360° rotatable, 2° increments, precision 6'
Compensator	Gypsum 1λ (18mm, optical path difference 551nm); Mica $1/4\lambda$ (18mm, optical path difference 147.3nm); Quartz Wedge (I – IV)
Focus	Coaxial focus adjust, Coarse range: 30mm, fine precision: 0.002mm
Stage	160mm diameter circular metal stage, with graphite coating, anti-corrosive and anti-friction treatment. 360° rotatable, 1° increment, precision 6'
Reflected Illumination	12v 50W halogen. Reflected illuminator with LBD filter, centre adjustable field and aperture diaphragms
Transmitted Illumination	12V/50W halogen with centre pre-setting and iris diaphragm
Condenser Type	N.A.1.2 swing-out achromatic condenser with 360° rotatable polarizer, four adjustable scales (0/90/180/270).
Configurations	Reflected light, reflected and transmitted light, or transmitted light
Accessories	Yellow/neutral/IF550/LBD filter for transmitted light, Mechanical stage, moving range: 30mmX40mm; High precision micrometer, 0.01mm increment

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