

GX Microscopes

product datasheet

Materials Microscopes

Metallurgical & Materials Upright



GXML2003AHTG
ROUTINE & TEACHING
Reflected Light
for Metallurgy



GXML3003
ROUTINE & RESEARCH
Reflected Light
for Metallurgy



GXML3030
ROUTINE & RESEARCH
Reflected &
Transmitted Light
for Materials



GXML3230BD
RESEARCH
Reflected &
Transmitted Light
(darkfield reflected)
for Materials



GXMICM100BD
ROUTINE & RESEARCH
Reflected Light
On Pillar Stand
for Industrial
Inspection

Semiconductor & Metallurgical Upright



GXMXJL101A
ROUTINE & RESEARCH
Reflected Light
With large glide stage
for Semiconductors



GXMXJL302BD
ROUTINE & RESEARCH
Reflected Light
With very large glide
stage
for Semiconductors

Metallurgical Digital Upright & Inverted



GXMDMS556
ROUTINE & RESEARCH
Digital
Upright
Reflected Light
for Metallurgy



GXMDMS551
ROUTINE & RESEARCH
Digital
Inverted
Reflected Light
for Metallurgy

Metallurgical & Materials Inverted



GXMXJL17AT
ROUTINE & RESEARCH
Reflected Light
for Metallurgy










GXMXJL20
RESEARCH
Reflected Light
for Metallurgy

GXMXJL20BD
RESEARCH
Reflected Light with
Darkfield
for Metallurgy

A range of high quality, versatile materials microscopes widely used in industry, research and university teaching. They provide great value for money with high optical performance and robust, durable designs

GX Microscopes Materials Microscopes Product Range Summary






Type	Model	Std Total Magnification (with accessories)	Objectives	Head	Illumination (option)	Condenser	Stage/Focus
Metallurgical & Materials Upright	 GXML2003AHTG (ID 0354)	50X-600X (40X-1600X)	5X, 10X, 40X, 60X(spring) PL L Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 20W 6V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters on a wheel	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 185x140mm (movement range 75mmx50mm)
	 GXML3003 (ID 5175)	50X-500X (40X-1600X)	5X, 10X, 20X, 50X(spring) PL L Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 20W 6V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 210x140mm (movement range 75mmx50mm)
	 GXML3030 (ID 5168)	50X-500X (40X-1600X)	5X, 10X, 20X, 50X(spring) PL L Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 20W 6V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters Transmitted 20W 6V halogen lamp Blue & Frosted Filters Koebler Illumination	Abbe 1.25NA on rack and Pinion	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage (with hole and glass plate) 210x140mm (movement range 75mmx50mm)
	 GXML3230BD (ID 7278)	50X-400X (40X-1000X)	5X, 10X, 20X, 40X(spring) B.D. Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 50W 12V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters Transmitted 30W 12V halogen lamp Blue & Frosted Filters Koebler Illumination BD Control	Abbe 1.25NA on rack and Pinion	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage (with hole and glass plate) 210x140mm (movement range 75mmx50mm)
	 GXMICM100BD (ID 9033)	50X-500X (50X-1000X)	5X, 10X, 20X, 50X(spring) B.D. UIS Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces fn22, Retractable analyser	Reflected 50W 12V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters BD Control	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage (with hole and glass plate) 185x140mm (movement range 35mmx30mm)
Semi-conductor & Metallurgical Upright	 GXMJL101A (ID 1047)	50X-800X (50X-1600X)	5X, 10X, 20X, 40X, 80X PL L Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 20W 6V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Three Layer Mechanical Stage 250x230mm (movement range 154mmx154mm) Quick Glide Controls
	 GXMJL302BD (ID 7278)	50X-800X (50X-1000X)	5X B.D., 10X B.D., 20X B.D., 50X B.D., 80X BF Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 50W 12V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters BD Control	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Three Layer Mechanical Stage 280x270mm (movement range 204mmx204mm) Quick Glide Controls

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GX Microscopes Materials Microscopes Product Range Summary *continued*

Type	Model	Std Total Magnification (with accessories)	Objectives	Head	Illumination (option)	Condenser	Stage/Focus
Digital Metallurgical Upright & Inverted	 GXMDMS556 (ID 9034)	50X-600X (50X-1000X)	5X, 10X, 40X, 60X Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular with 8in TFT display Built-in 5MP camera SD card Writer Video output 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces, Retractable analyser	Reflected 20W 6V halogen lamp Field & aperture diaphragms Rotatable Polariser Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 210x140mm (movement range 75mmx50mm)
	 GXMDMS551 (9035)	40X-400X (40X-800X)	4X, 10X, 20X, 40X Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular with 8in TFT display Built-in 5MP camera SD card Writer Video output 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces,	Reflected 30W 6V halogen lamp Field & aperture diaphragms Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 180x150mm (movement range 15mmx15mm)
Metallurgical & Materials Inverted	 GXMXJL17AT (0378)	100X-1000X (50X-1600X)	10X, 20X, 40X, 100X Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces,	Reflected 20W 6V halogen lamp Field & aperture diaphragms Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 180x150mm (movement range 15mmx15mm)
	 GXMXJL20 (8398)	100X-1000X (50X-1000X)	10X, 20X, 50X, 100X Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces,	Reflected 30W 6V halogen lamp Field & aperture diaphragms Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 242x200mm (movement range 30mmx30mm)
	 GXMXJL20BD (8404)	100X-1000X (50X-1000X)	5X BD, 10X BD, 20X BD, 50X BD Infinity Long Working Distance Plan Achromatic (Non-coverslip corrected)	Trinocular 30deg inclined eyepiece tubes, Interpupillary distance adjustment, Diopter adjustment, Pair 10X eyepieces,	Reflected 50W 12V halogen lamp Field & aperture diaphragms Y,G,B,frosted Filters	None	Coaxial Coarse/Fine Focus Tension Adjustable Limit Stopper Double Layer Mechanical Stage 242x200mm (movement range 30mmx30mm)

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Routine & Research Upright Materials Microscopes



GXML2003AHTG (ID0354)
Trinocular Reflected Light
Metallurgical
Microscope

A robust good quality traditional metallurgical microscope equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality plan achromatic metallurgical objectives on a reversed objective turret. Specimens can be placed on the mechanical stage with controls for XY stage and focus control. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from an integral 20W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters.

This microscope is based on GX Microscopes L2000 series traditional microscope frame which provides a robust and a durable platform suitable for the most demanding of applications.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GXML3003 (ID5175)
Trinocular Reflected Light
Metallurgical
Microscope

A high quality metallurgical microscope equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality plan achromatic metallurgical objectives on a modern reversed objective turret. Specimens can be placed on the mechanical stage with ergonomically positioned controls for XY stage and focus control. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from an integral 20W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters.

This microscope is built on GX Microscopes most popular and highly robust L3000 series elegant microscope frame which provides high stability and a durable platform suitable for the most demanding of applications.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.

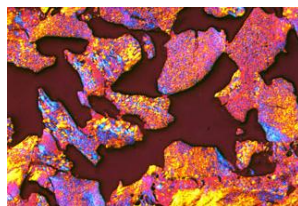
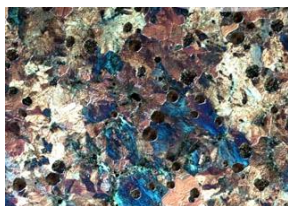


GXML3030 (ID5168)
Trinocular Reflected &
Transmitted Light Materials
Microscope

A high quality materials microscope equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality plan achromatic materials objectives on a modern reversed objective turret. Specimens can be placed on the mechanical stage with ergonomically positioned controls for XY stage and focus control. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from an integral reflected light illuminator with a 20W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters. Transmitted light is from a 20W halogen lamp with adjustable intensity and field diaphragm for koehler illumination, projected through an adjustable aperture condenser on a rack and pinion with a blue and diffusion filters supplied.

This microscope is built on GX Microscopes most popular and highly robust L3000 series elegant microscope frame which provides high stability and a durable platform suitable for the most demanding of applications.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



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Routine & Research Upright Materials Microscopes



GXML3230BD (ID7278)

Trinocular Reflected (BF/DF) and Transmitted Light, Research Grade, Materials Microscope

A substantial, top quality materials microscope equipped with infinity optics, darkfield / brightfield incident illumination and transmitted light. It also has a trinocular head ready for the attachment of a digital camera.

This microscope includes a full set of high quality infinity BD plan achromatic materials objectives on a modern reversed objective turret. Specimens can be placed on the mechanical stage with ergonomically positioned controls for XY stage and focus control. The focussing tension can be adjusted and a focus lock protects the objectives from damage.

Illumination is provided from an integral reflected light illuminator with a 50W halogen lamp with adjustable intensity, darkfield / brightfield insert field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters. Transmitted light is from a 50W halogen lamp with adjustable intensity and field diaphragm for koehler illumination, projected through an adjustable aperture condenser on a rack and pinion with a blue and diffusion filters supplied

This microscope is built on GX Microscopes latest and highly acclaimed L3200 series research microscope frame which provides high stability and a durable platform suitable for the most demanding of applications.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GXMICM100BD (ID9033)

Trinocular Reflected (BF/DF) Light Industrial Inspection Microscope

A very useful industrial inspection microscope suitable for viewing any reflective sample and is widely used in component inspection.

The whole microscope is mounted on a pillar stand which allows the inspection of unusually large specimens. If required it is possible to mount the head on optional long reach boom arm stands

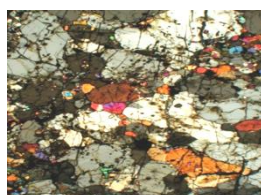
It is equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality brightfield/darkfield plan achromatic infinity corrected materials objectives.

Specimens can be placed on the mechanical stage with controls for XY stage movement.

The focussing tension can be adjusted and a focus lock protects the objectives from damage.

Illumination is provided from a reflected light illuminator with a 50W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GX Microscopes

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Routine & Research Inverted Materials Microscopes



GXMXJL17AT (ID0378)
Inverted Trinocular Reflected Light
Metallurgical Microscope

One of GX Microscopes most popular metallurgical microscopes the GXMXJL17AT is simple to use, especially where you need to examine many specimens with frequent changes of polished 'micros'. The inverted microscope means that each successive specimen is immediately in focus and it is also very useful for large specimens that cannot fit under an upright microscope model.

The microscope is equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality plan achromatic metallurgical objectives mounted under the stage. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from a 20W halogen lamphouse with adjustable intensity, field and aperture diaphragms and set of Y, G, B and diffusion filters.

This microscope is built on GX Microscopes' highly robust XJL inverted series microscope frame which provides a stable and durable platform suitable for the most demanding of applications.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.

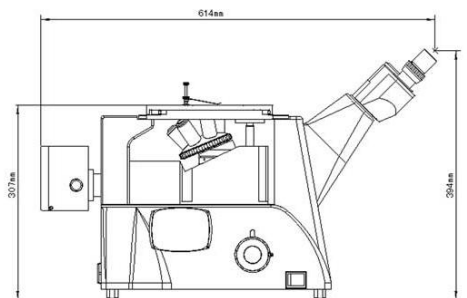
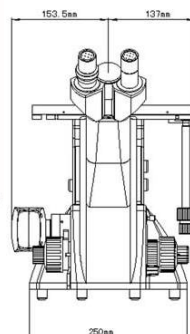
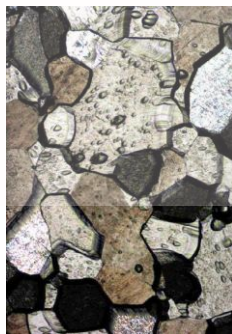
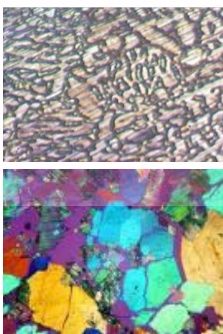


GXMXJL20 (ID8398) & GXMXJL20BD (ID8404) Inverted, Brightfield & Darkfield, Reflected Light with Camera Port, Metallurgical, Research Grade Microscopes

GX Microscopes most advanced and latest inverted microscope featuring superb UIS optics and a full range of functionality including darkfield (in the BD version) and polarised light. Built on the latest design ergonomic frame and equipped with a side camera port this microscope is very high quality yet simple to use

This microscope includes a pair of 10X eyepieces with a wide field number of 22mm, a full set of high quality infinity corrected, long working distance, darkfield/brightfield, plan achromatic metallurgical objectives mounted under the stage. The stage includes a circular mount to make polarised light observation rotation simple. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from a high intensity 50W halogen lamphouse with adjustable intensity, field and aperture diaphragms and set of Y, G, B and diffusion filters.

Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GX Microscopes

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Semiconductor & Metallurgical Upright Microscopes



GXMIXJL302BD (ID6073)

Trinocular Reflected Light, Brightfield/Darkfield Semiconductor Microscope

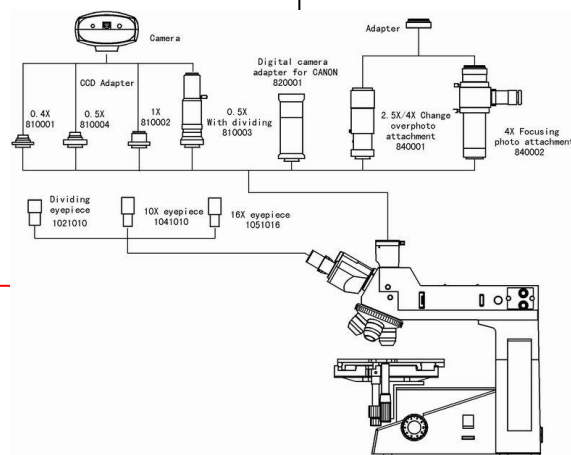
A large specimen capacity, top quality materials microscope suitable for viewing silicon wafers, assemblies and standard metallurgical reflective specimens. It is equipped with infinity optics with darkfield / brightfield incident (reflected) illumination. It also has a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality infinity BD plan achromatic materials objectives on a rotatable objective turret. Specimens can be placed on the very large mechanical stage (can take 8in wafers) with controls for XY stage movement including a rapid traverse override control, perfect for scanning over large areas. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from a powerful, integral reflected light illuminator with a 50W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters. This microscope is built on GX Microscopes largest and highly robust XJL upright series industrial microscope frame which provides high stability and a durable platform suitable for the most demanding of applications. Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GXXJL101A (ID1047)

Trinocular, Reflected Light Semiconductor Microscope

A highly stable, substantial microscope suitable for viewing silicon wafers, assemblies and standard metallurgical reflective specimens. It is equipped with a trinocular head ready for the attachment of a digital camera. This microscope includes a full set of high quality plan achromatic materials objectives. Specimens can be placed on the mechanical stage with controls for XY stage movement including a rapid traverse override control, perfect for scanning over large areas. The focussing tension can be adjusted and a focus lock protects the objectives from damage. Illumination is provided from an integral reflected light illuminator with a 20W halogen lamp with adjustable intensity, field and aperture diaphragms, polariser and set of Y, G, B and diffusion filters. This microscope is built on GX Microscopes most substantial and highly robust XJL upright series industrial microscope frame which provides high stability and a durable platform suitable for the most demanding of applications. Options include a range of camera adapters, digital cameras, image analysis software, additional objectives and eyepieces.



GX Microscopes

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Routine & Research

Digital Upright & Inverted Materials Microscopes



GXMDMS556 (ID9034)

5MP Digital Upright Trinocular Reflected & Transmitted Light Materials Microscope with LCD Display

This is the very latest, easy-to-use, high resolution, top quality, digital materials microscope. It is equipped with a large, high resolution display, a built-in 5MP camera, SD card slot for recording your images and video sequences, a video output for additional displays and a USB link for down loading your images direct to PC.

The microscope has 4 infinity corrected plan achromatic objectives giving up to 600X magnification with the option of up to 1000X. The objectives are mounted on a reversed turret for easy access for specimen loading.

This microscope has both top (reflected) and bottom (transmitted) light making it highly versatile and suitable for use on almost any materials subject from metallurgical 'micros' to fibre and polymer analysis.

The reflected light includes a fully rotatable polariser with a retractable analyser in the head as well as a set of filters. Both lights have adjustable intensity and the transmitted light has a diaphragm providing full koehler illumination with an Abbe condenser.

The microscope is mounted on a robust, stable modern stand with ergonomic controls for focus and illumination adjustment.

The images created by this system are exceptionally high quality and the large display screen reduces the strain of prolonged viewing and permits colleagues and trainees to share the information displayed.

No computer is required to operate this microscope.



GXMDMS551 (ID9035)

5MP Digital Inverted Reflected Light Metallurgical Microscope with LCD Display

One of the new generation of easy-to-use, high resolution, top quality, digital inverted materials microscopes.

Fitted with a large, high resolution display, scanning your samples is now made easy and less tiring. It is also perfect for sharing observations with your colleagues or students.

This instrument includes a built-in 5MP camera and SD card slot for recording your images and video sequences, a video output for additional displays and a USB link for down loading your images direct to PC. No PC is needed to operate this microscope.

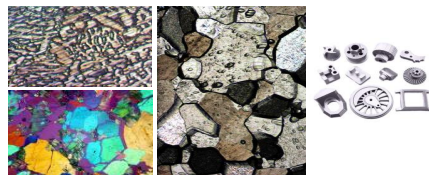
The microscope has 4 infinity corrected, long working distance, plan achromatic objectives giving up to 400X magnification with the option of up to 1000X. The objectives are mounted below the stage leaving the stage free to hold large specimens.

This microscope has powerful reflected light designed primarily for the observation of metallurgical specimens

The illumination has adjustable intensity and a set of diaphragms and filters built-in.

The microscope is mounted on a highly robust, stable modern stand with ergonomic controls for focus and illumination adjustment.

The images created by this system are exceptionally high quality and can be accessed via the screen, written to SD card or transferred to a PC.

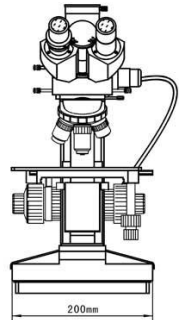
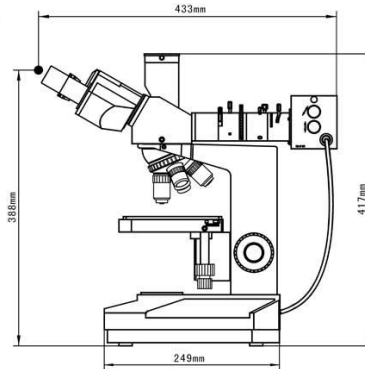
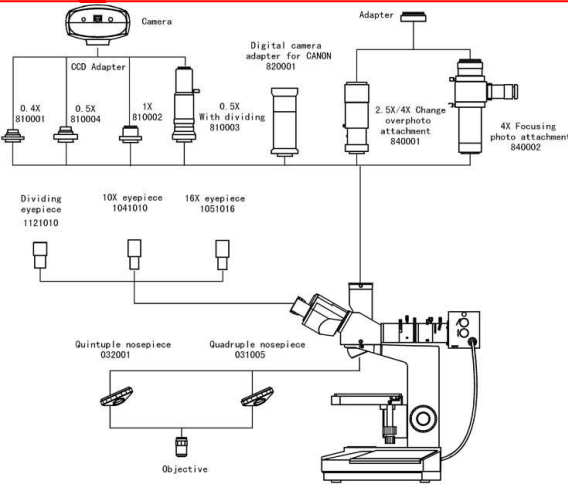


GX Microscopes

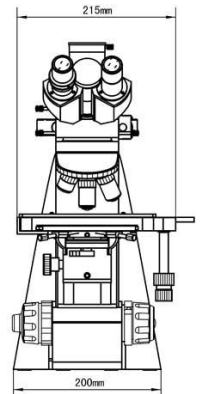
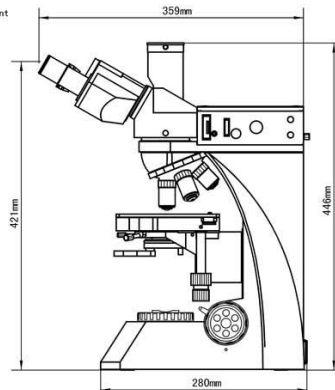
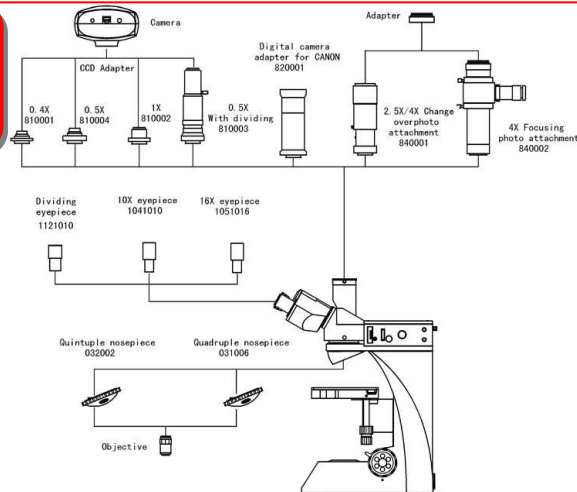
product datasheet

System Diagrams

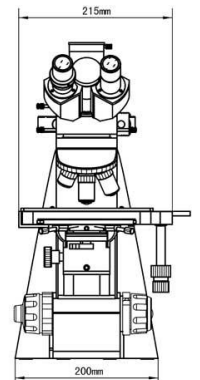
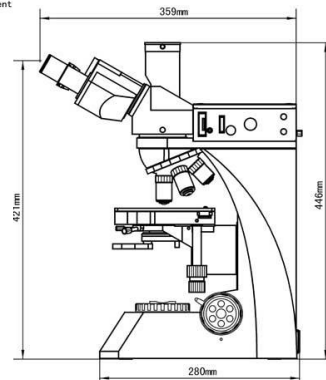
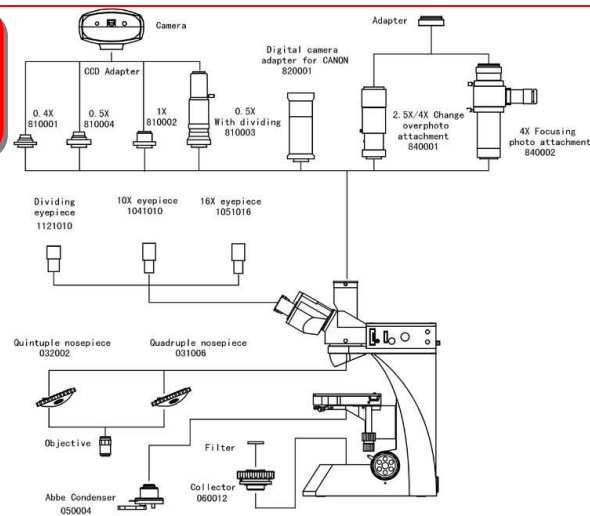
GXML2003AHTG
ROUTINE & TEACHING
Reflected Light
for Metallurgy



GXML3003
ROUTINE & RESEARCH
Reflected Light
for Metallurgy



GXML3030
ROUTINE & RESEARCH
Reflected &
Transmitted Light
for Materials

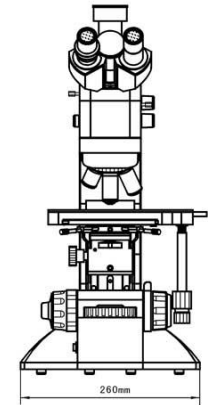
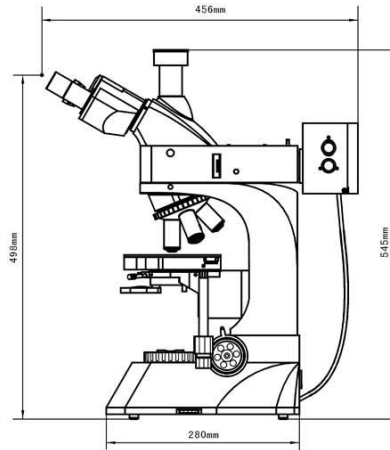
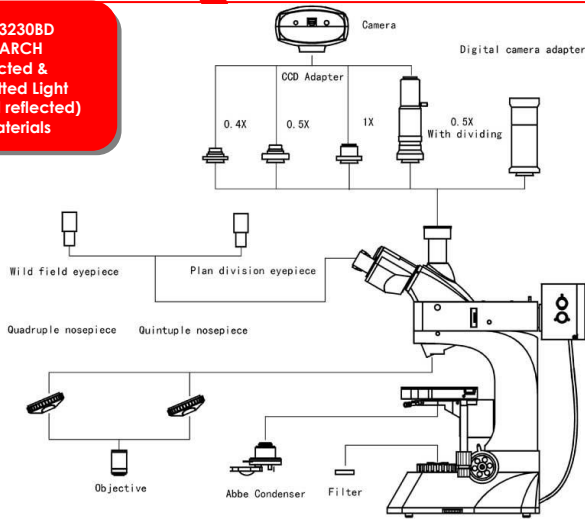


GX Microscopes

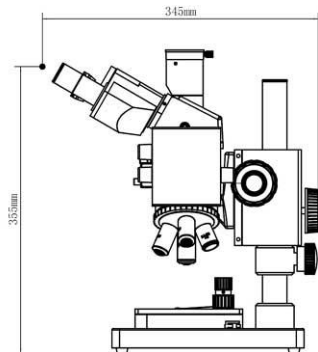
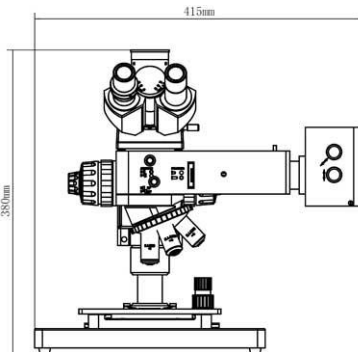
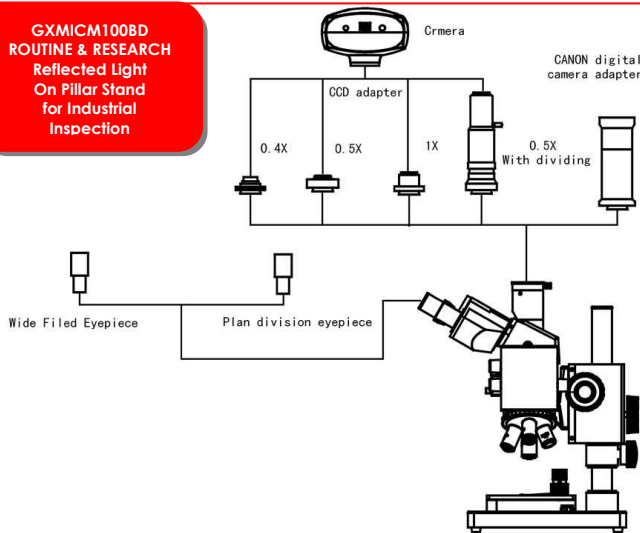
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System Diagrams

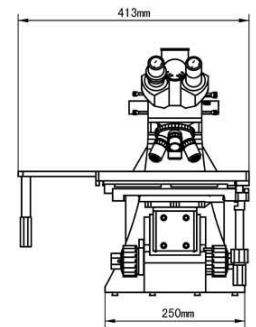
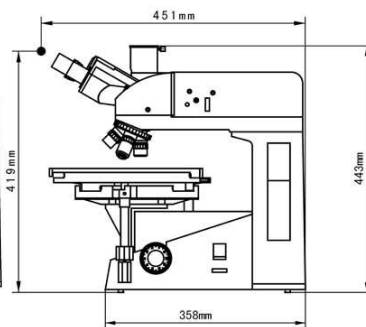
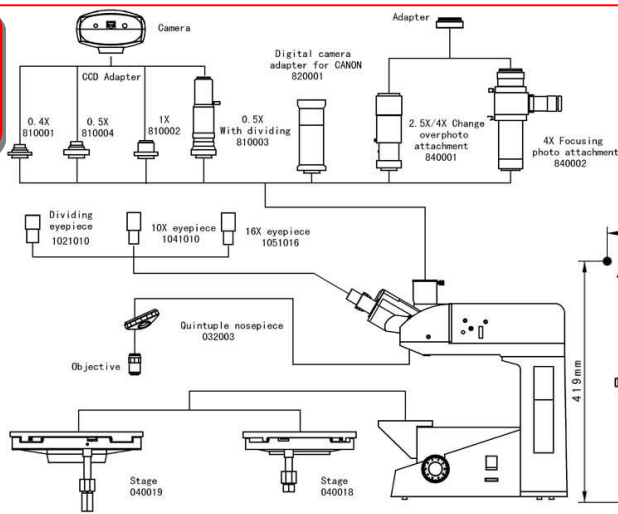
GXML3230BD
RESEARCH
Reflected &
Transmitted Light
(darkfield reflected)
for Materials



GXMICM100BD
ROUTINE & RESEARCH
Reflected Light
On Pillar Stand
for Industrial
Inspection



GXMXJL101A
ROUTINE & RESEARCH
Reflected Light
With large glide stage
for Semiconductors

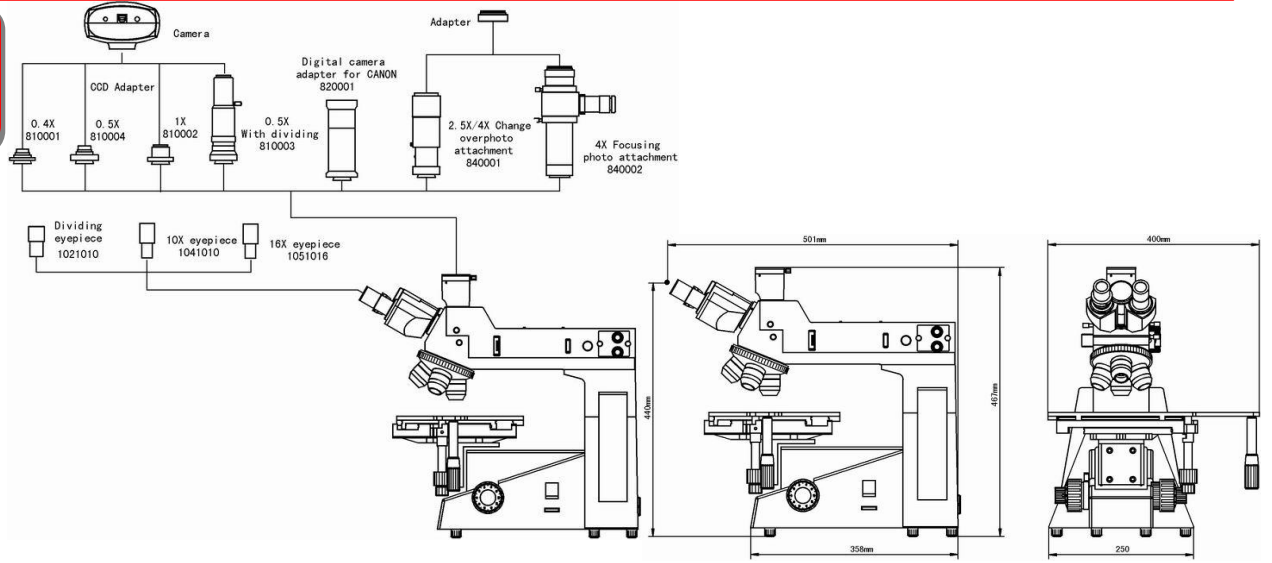


GX Microscopes

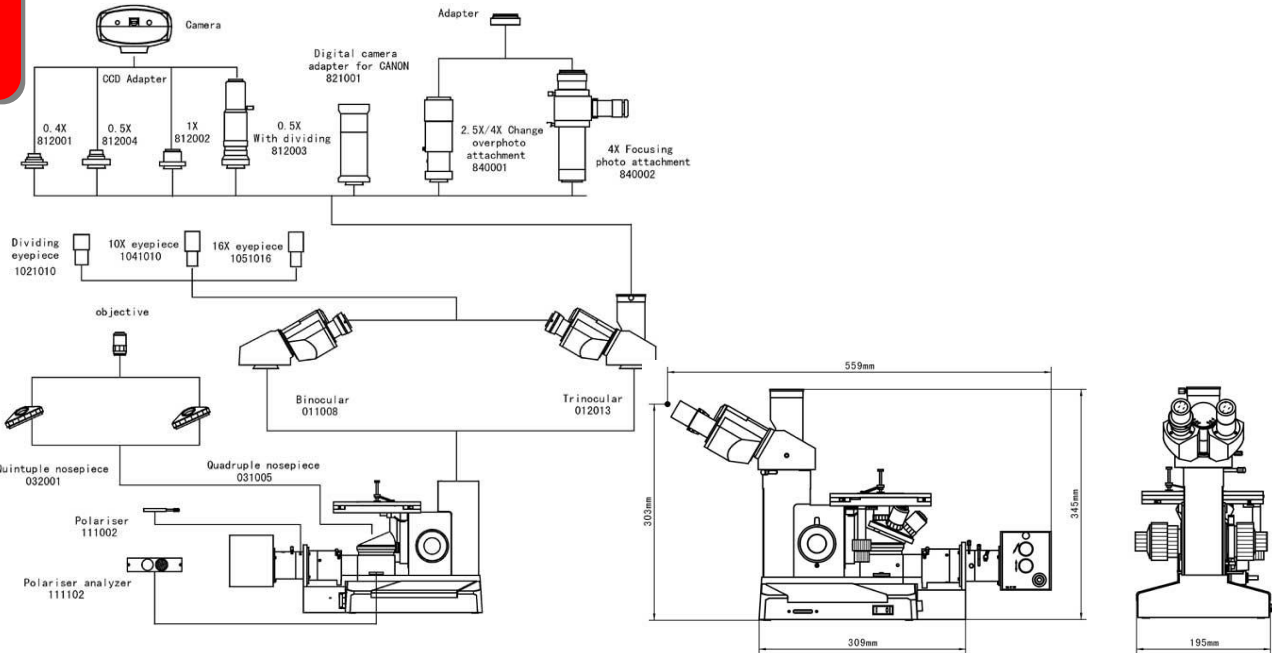
product datasheet

System Diagrams

GXMXJL302BD
ROUTINE & RESEARCH
 Reflected Light
 With very large glide
 stage
 for Semiconductors



GXMXJL17AT
ROUTINE & RESEARCH
 Reflected Light
 for Metallurgy



GXMXJL20/BD
RESEARCH
 Reflected Light with
 Darkfield
 for Metallurgy

