NIM610 inverted metallographic microscope specification	
Optical system	Infinite optical system
Eyepiece(FOV)	10X/22, diopter -5~+5
Viewing tube	Integrated seidentopf viewing head, inclined at 45°, interpupillary 48-75mm
Nosepiece	Coded Quintuple Nosepiece
Objective	Plan Achromatic objective / Plan S-APO Objective
Stage	Double oayers mechanical stage 226×178mm, moving range 50×50mm
Stage attachment	Stage plate/Tablet part
Focusing system	Coaxial coarse and fine adjustment, the right knob has the function of coarse tightness adjustment, fine division 2 um, fine stroke 0.2mm per rotation, coarse stroke 37.5mm per rotation.Lifting range 6mm;
Reflected illumination	3W color temperature adjustable LED LCD display power, brightness memory, color temperature, timing sleep and so on
Polarization attachment	Simple polarizing board(polarizer and analyzer integrated)
Others	Filter, dust cover, instruction manual

Nexcope®

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Nexcope®

NIM610

Inverted metallurgic microscope

Compact and durable, accurate and reliable, simple and intuitive

Nexcope®

Inverted microscope for all kinds of metallographic samples

NEXCOPE NIM610

The NIM610 metallographic microscope can place the sample above the objective lens and observe the sample from below, which is widely used in steel, automobile, machinery, electronics and other industries.

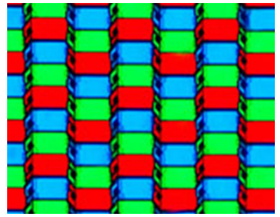
In the case of uneven samples or large volumes, the sample is placed on the stage, which can be easily and quickly observed. NIM600 can be used for large and heavy samples up to 5 kg and is suitable for observation at magnifications of tens to thousands of times.

Work with NOMIS analysis software to support a wide range of metallurgical imaging analysis needs, enabling you to further study the impact of different processes on your samples.

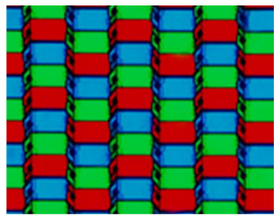
More suitable LED lighting

LED lighting color temperature is adjustable, brightness is stable, it can provide true color images in all brightness. Long service life, no need to change the bulb frequently. Low heat generation, no risk of overheating, no need for cold fans, creating a quiet and uninterrupted working environment. Due to the advantages of LED lighting sources, it is replacing traditional halogen light sources and becoming the first choice for microscope light sources.

Always maintain a consistent color temperature-LEDHalogen light source

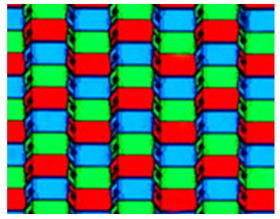


High light

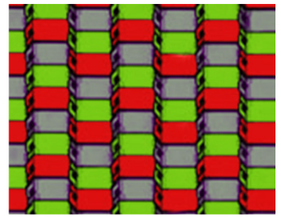


Low light

Halogen light source



High light



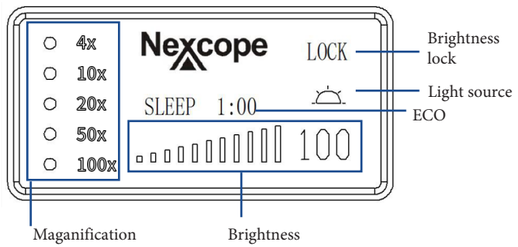
Low light

User friendliness

Microscope status display function

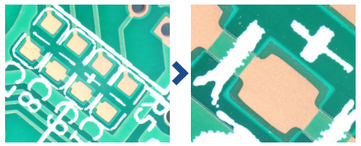
The LCD screen at the front of the microscope can display the use state of the microscope, including magnification, light intensity, standby state, etc.

Main interface

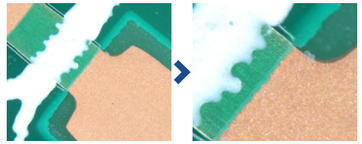


Brightnes memory function

It can remember the lighting brightness when using each objective lens, and automatically adjust the light intensity when different objectives are converted to each other, reducing visual fatigue and improving work efficiency.



4X 20X



50X 100X

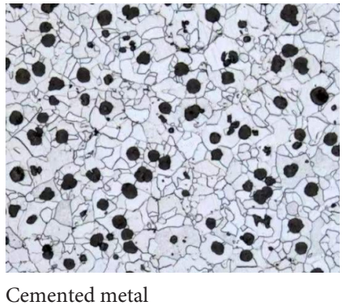
Observation of large samples

Application scenarios:

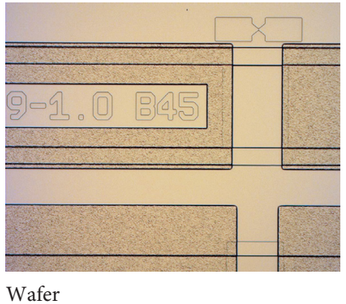
The sample size of metal corrosion, metal flow or carburizing metal research is large, and the sample size of wafer and integrated circuit packaging detection is often large, so it is difficult to observe the metallography completely with traditional metallographic microscope.

Solution: Inverted microscopes for all types of metallographic samples

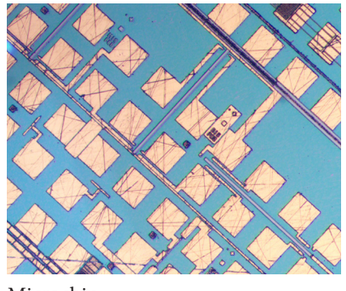
The spacious work space is suitable for large and heavy samples. The surface of the stage is anti-scratch, which is suitable for the observation of various materials and shapes. At the same time, there are a variety of stage brackets and gaskets, different shapes and holes of the gaskets can meet the observation and analysis of a variety of small samples. Flexible low hand handle provides both accuracy and comfort for sample movement observation.



Cemented metal



Wafer

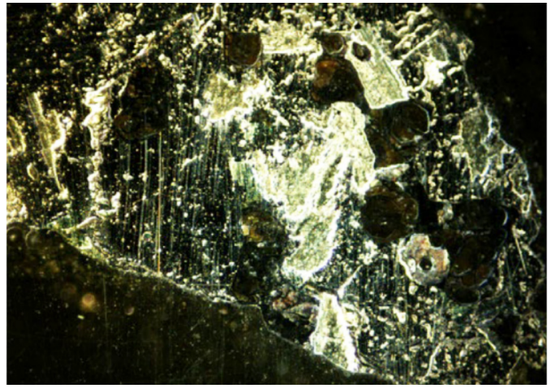


Microchip

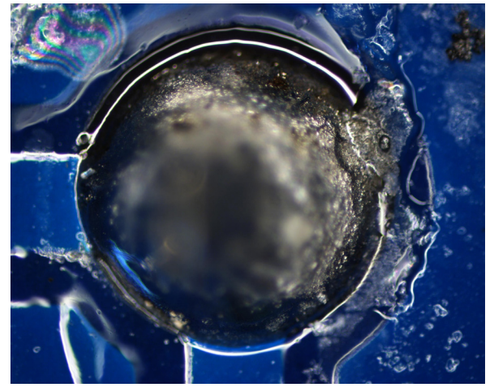
Uneven metal samples

Application scenarios:

Metallographic samples often have uneven surfaces and are highly reflective, which makes it difficult to observe fine material structures and defect states. The image quality of unclear crystal texture and surface state may affect the judgment of acceptance and measurement results.



Dazzling high reflective imaging

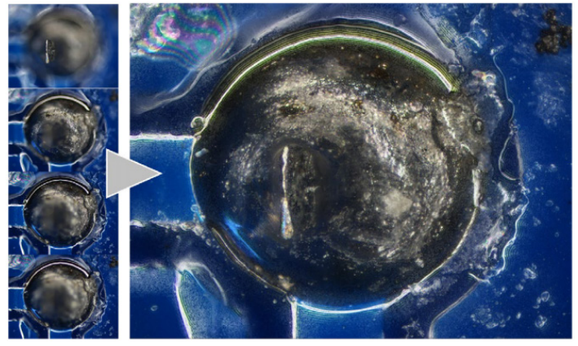


Different depth of field results in some blurred images

Solution: High dynamic image and depth of field fusion to improve metallographic imaging

Using HDR mode, it is easy to observe the dazzling crystal part of the metallographic structure that is difficult to observe with conventional mode, which improves the accuracy of the image, reduces the misjudgment, and increases the reliability of the measurement. Depth of field fusion enables a full-focus image of the entire sample, regardless of whether the polished surface is uneven or tilted, which greatly reduces effort and working time.

HDR imaging

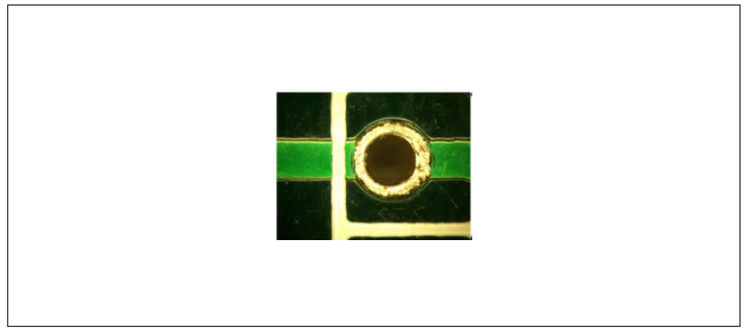


Depth of field fusion

Large range panoramic imaging

Application scenarios:

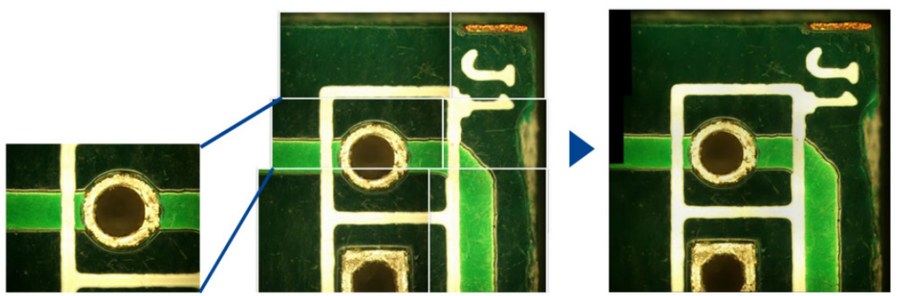
Some samples in a specific field need to be viewed with a large area of enlarged images. For example, in metallurgical inspection, the overall metal flow and carburizing conditions of the sample are usually examined in order to have a more comprehensive understanding of the impact of different processes.



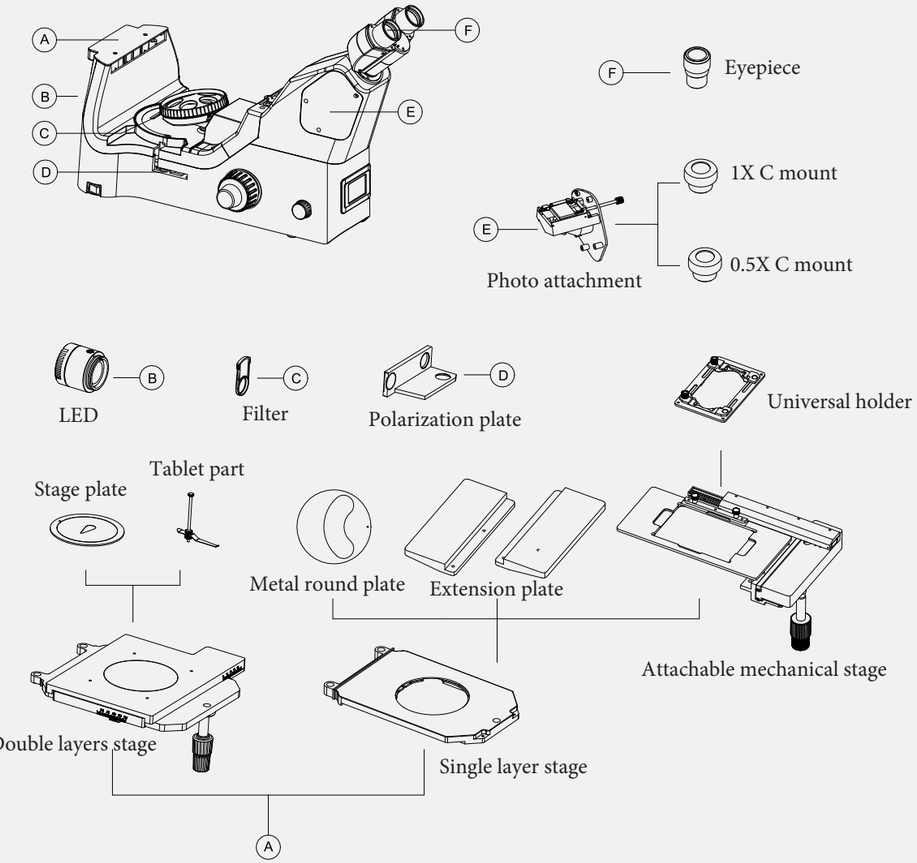
Only part of the sample can be imaged with a single observation

Solution: Image stitching

Using NOMIS image processing software, multiple images can be joined together to form high magnification and large field of view images by simply moving the platform manually. This feature makes it easy to capture large area images, significantly reducing the time and effort required.



SYSTEM LAYOUT



DIMENSION FIGURE

(Unit： mm)