

OPTICAL & MEASURING Equipment

광학기기 제품 소개서

본 제품 소개서 외의 기타 자세한 내용에 대해서는 당사로 연락 주시기 바랍니다



PROFESSIONAL SCIENTIFIC INSTRUMENT

산업용 현미경

Industrial Microscopes



● 대형 시료 및 FPD / 300mm 웨이퍼 검사용 현미경

- Enhanced observational performance
Brightfield / Darkfield / DIC / Epi-fluorescence
- CFI60-2 optics with long working distance and high NA
- Tilting trinocular eyepiece tube for observation at optimum eyepoint level.
- The motorized universal nosepiece is three times more durable than others

Applications

- ITO Film 검사 • PCB 검사 • LCD 검사
- FPD 검사 • 300mm Wafer 검사 등

ECLIPSE L300N - 반사 **L300ND** - 투과/반사
- 300mm 웨이퍼
ECLIPSE L200N - 반사 **L200ND** - 투과/반사
- 200mm 웨이퍼

● Industrial Microscope – 연구/분석용 현미경

- Modularized microscope body applicable with various observations and tasks
- Newly developed CFI60-2 series provides the ultimate in long working distance levels and the most advanced chromatic aberration in a light weight body
- Easy digital imaging
- ECLIPSE LV150NL with LED illumination

ECLIPSE LV150N - 반사 / Manual Type

ECLIPSE LV150NA - 반사 / Motorized Type

ECLIPSE LV100ND - 반사 / 투과 / Manual Type

ECLIPSE LV100DA-U - 반사 / 투과 / Motorized Type

Compatible observation methods

	Brightfield	Darkfield	DIC	Fluorescence	Polarizing	Phase contrast	Two-beam interferometry
Episcopic	○	○	○	○	○	—	○
Diascopic	○	○	○	—	○	○	—



● Inverted Microscopes

– 금속조직 분석용 현미경

Basic performance dramatically improved. Provides a more ergonomic and clear image observation.

ECLIPSE MA200 - High Performance

ECLIPSE MA100 / MA100L - Compact & Economical

● Digital Microscope – 휴대형 디지털 현미경

Revolutionary portable digital microscope

ShuttlePix

- Camera : 1/1.8" CCD, 2.11 megapixels, 28fps (800×600)
- Magnification : 3x to 60x
- Light source : white LED
- Various Optional Accessories



반도체 검사장비 Semiconductor Equipments



200mm 웨이퍼 자동 이송장치

NWL200 Serie

Nikon's proprietary technology ensures reliable loading of ultra-thin 100µm wafers

Wafers are following a trend toward ever greater thinness. Nikon's outstanding proprietary technology makes the NWL200 Series the first lineup of wafer loaders for inspection microscopes capable of loading 100 µm thin wafers. The NWL200 Series achieves highly reliable loading suitable for inspection of next-generation semiconductors.

- Wafer Size : 200mm / 150mm×1
- Thickness : 300µm ~ 100µm
- Carrier : SEMI 25 (26) wafer carrier
- Sensor : Non-contact, photoelectric sensors
- Standards : SEMI : S2-0706, S8-0307, F47 compatible
- Laser safety : FDA Class 1

300mm 웨이퍼 자동 검사 장치 – Wafer Inspection System

OPTISTATION-3000

Simple and speedy manual visual inspection of 300mm wafers. Contributes to dramatic increases in yields as an inline inspection system and analysis tool for R&D defect analysis.

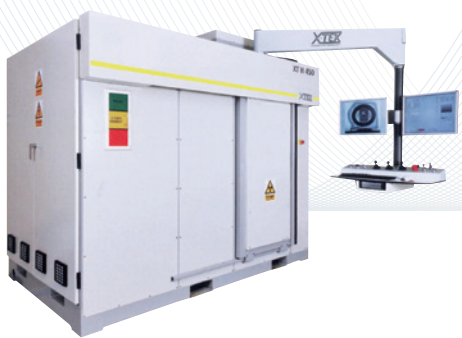
- High transfer stability.
- Extra-long working distance lens.
- Enhanced macro observation functions.



CT & X-Ray Inspection System



CT 검사장치



- XT H 160 An entry model scanner for interior and exterior inspection
- XT H 225 for Full inner and outer inspection
- XT H 320 LC Industrial CT Scanning
- XT H 450 for CT Inspection of Blades & Castings
- MCT225 for Metrology CT

Applications

- Evaluation and measurement of precision plastic parts and small castings, complex mechanisms, internal components, part-to-CAD comparison, etc.
- Advanced material research and analysis of biological structures
- Digital archiving of models
- Troubleshooting of assembly issues
- Detailed analysis of the internal structure of turbine blades
- Automated pass/fail inspection of blades
- Inspection of high density parts (e.g. metal parts, castings) with a need for micron accuracy

X-Ray 검사장치

Top-class inspection system for miniaturized electronic components
Compact, versatile and easy-to-use electronics QA system

- XT V 160
- XT V 130

Applications

- Electronic and electrical components
- Populated and unpopulated PCBs
- Micro-electro-mechanical systems (MEMS, MOEMS)
- Populated and unpopulated PCBs
- BGA and CSP inspection
- Cables, harnesses, plastics and many more



실체 현미경

Stereoscopic Microscope



● Top Class 연구용 실체 현미경

SMZ25 / SMZ18

High-end stereo microscope featuring the world's largest zoom range, higher resolution and bright Epi-fluorescence

- World's largest zoom range and highest resolution in the SMZ series
- Bright and high contrast fluorescent images
- Automation and digital imaging
- Easy to use
- Zoom ratio : 25:1, Magnification : 0.63x - 15.75x (315x Max.)

● 중, 저가의 경제적인 연구용 실체 현미경

Superior optic performance, expandability, ergonomic design, and cost performance!

SMZ1000 8x ~ 80x

- High magnification : 0.8 ~ 8x
- High zoom ratio : 10:1 Zoom
- Total magnification : 4x ~ 480x

SMZ800 10x ~ 63x

- High magnification : 1x ~ 8x
- High zoom ratio : 6.3:1 Zoom
- Total magnification from 5x to 378x



● 다목적 고성능 실체 현미경

- Wide field of view, long working distance and High-resolution images!

AZ100 - Manual

AZ100M - Automatic control with Elements

- **Mono-zoom** mechanism enables true on-axis image capture in the macro.
- Total magnifications : 6.25x ~ 500x
 - Zoom Ratio : 8:1
- High-resolution/high-contrast observation.
- Observation : Epi-fluorescence, Reflected/Transmitted light brightfield, Simple POL and Differential Interference Contrast
- Intelligent triple nosepiece **Motorized control of Zoom and Focusing Movement**
- Communication with a PC and DS-L2 and DS-U2 digital camera

● 확대 관찰용 실체 현미경

- 7.5x zoom and 115 mm working distance

SMZ745 - Binocular Optical Head

- Optical Magnification : 6.7x ~ 50x
- Total magnifications : 3.35-300x
- Built-in C-mount 0.55x magnification lens (F.N. 11), Compatible with 2/3 in. or smaller CCD

SMZ745T - Trinocular Optical Head

- Greenough optical system
- Zoom ratio : 7.5 : 1



생물 현미경

Biological Microscope



Advanced Research Microscope Systems – 연구용 현미경



For the bioscience and biomedical fields

ECLIPSE Ni-E - Automated

- CFI60 and CFI75 infinity optical systems
- High-speed motorized accessories
- Automatic adjustment with objective changeover
- Change of observation conditions
- Supreme optical performance

ECLIPSE Ni-U - Manual

- Stratum structure improves system expandability
- Two exchangeable focusing mechanisms
- High-precision motorized focusing
- Ultimate ease of operation

Microscopes for Clinical / Lab – 임상 및 LAB 연구용 현미경

ECLIPSE Ci-E / Ci-L / Ci-S

- Motorized magnification switching
- Enhanced operational ease
- Versatile observation techniques
- Bright and uniform Eco-illumination
- Effortless image capturing



Clinical / Educational Microscope – 교육용 생물 현미경

Compact & basic microscope

ECLIPSE E200

- Crystal-clear image with CFI60 optics
- High-intensity LED Eco-illumination
- Ergonomic & Anti-mold design
- A wider field of view

Biological Microscope

ECLIPSE E100

- Plan series objective lenses for flat images
- High-intensity LED Eco-illumination
- Trinocular eyepiece tube allows image capturing
- Coaxial coarse/fine focus knob

Inverted Microscopes – 도립 형 생물 현미경

- Stable time-lapse imaging with automatic focus correction system
- High-speed motorized control and acquisition
- High-quality phase contrast images using high NA lenses
- Advanced integration with peripherals via intelligent software
- Motorized laser TIRF illumination unit
- Photo activation illumination unit
- TIRF photo activation
- Three models for a wide range of applications
- Multiport design with a maximum of five imaging ports

High-Grade Research Microscope

ECLIPSE Ti

Its simple operation

ECLIPSE TS100/100-F



Polarizing microscope – 편광 현미경

High quality polarizing microscope

ECLIPSE LV100N POL

A compact polarizing microscope

ECLIPSE Ci-POL

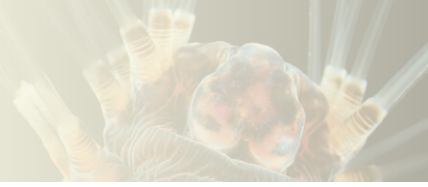
A popular polarizing microscope

ECLIPSE E200POL

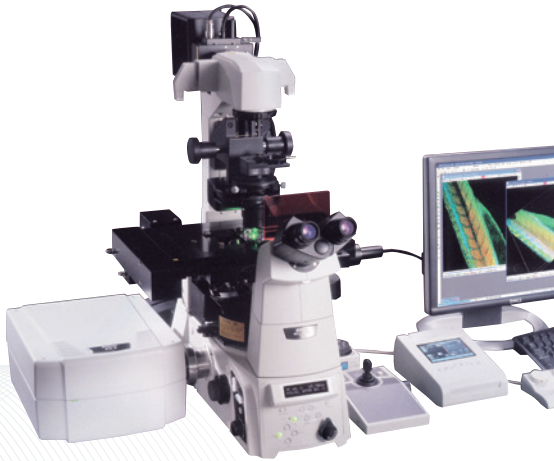


생물 현미경

Biological Microscope



●● Microscopes for Clinical / Lab – 세포내의 상호 작용 및 활동성 관찰 시스템



Nikon confocal microscope system **A1R+** is a powerful tool for the acquisition of intracellular dynamics and interaction.

A1+ provides high-resolution imaging of up to 4096×4096 pixels with a galvano (non-resonant) scanner.

- High-resolution imaging with a galvano scanner
- Increased light detection efficiency realizes high image quality
- VAAS pinhole unit for bright, clear images
- Enhanced spectral imaging
- Simple operation of complex applications

Captures high-quality and high-speed images

A1+/A1R+

Simple and robust - the new generation

C2+

●● Confocal LASER microscope system

– 유기체의 형광 관찰용 LASER Confocal 현미경 : 저가형 시스템

The Nikon C2+ series offers the optimum confocal system to meet both your research and your budgetary needs.

AZ-C2+

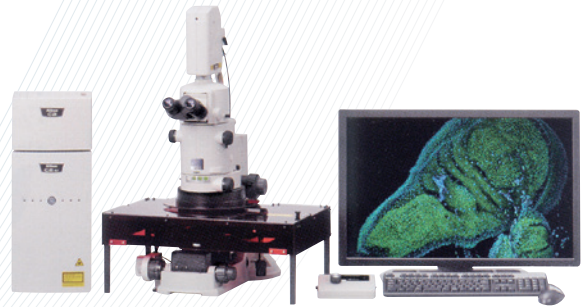
Standard model boasts high resolution, high sensitivity, and high contrast. Suited for single laboratories or large research groups.

AZ-C2si+ Ready

Upgrade to C2si+ is possible by adding a spectral detector

AZ-C2si+

Spectral confocal system featuring a 32-ch multinode spectral detector. A spectral bandwidth of 320 nm can be captured in a single scan.



●● Multiphoton Confocal Microscope

– 고성능의 유기체 형광 관찰용 LASER Confocal 현미경

A1 MP+/A1R MP+

A multiphoton confocal microscope which realizes ultra-deep, high-speed and high-quality imaging, and provide faster and sharper imaging from deeper within living organisms

- Ultrahigh-speed imaging of up to 420 frames per second
- Deep specimen imaging with non-descanned detectors (NDD)
- Super high-sensitive GaAsP NDD

비 접촉 3차원 측정기기 CNC Video Measuring Systems



● NEXIV VMZ-R Series – 고속/고정밀의 범용 측정기

High-speed, high-accuracy measurement of a wide range of parts. Detailed settings for each workpiece are possible.



NEXIV VMZ-R3020

Suitable for small components such as mechanical parts, molded parts and high-density PCBs
Stroke : 300×200 mm (standard stroke model)

NEXIV VMZ-R4540

Suitable for small components such as mechanical parts, molded parts and high-density PCBs
Stroke : 300×200 mm (standard stroke model)

NEXIV VMZ-R6555

Suitable for large components and “step-and-repeat” measurements of multiple pieces on the stage
Stroke : 650×550 mm (large stroke model)

● Ultra-High Precision Type – 초 정밀 측정 시스템

Ultra-high-precision and general-purpose type appropriate as a master instrument Max. measurement range : 300×300 mm

NEXIV VMR-H3030

Ultra-high-precision and general-purpose type appropriate as a master instrument.
Max. measurement range : 300×300 mm

Ultra-high-precision Type with Maximum Magnification Module

NEXIV VMR-H3030 Z120X

With an ultra-high-precision stage and maximum magnification module, it measures fine workpieces with ultrahigh accuracy



● Ultra Large Stroke Type – 대형 시료 측정 시스템

For high-precision measurements of large substrates and LCD parts Max. measurement range : 1000×800 mm



NEXIV VMR-10080

For high-precision measurements of large substrates and LCD parts Max. measurement range : 1000×800mm

Ultra-large Stroke Type with Maximum Magnification Module – 대형시료 및 고배율 측정대상

NEXIV VMR-10080 Z120X

For high-precision measurements of large substrates and LCD parts
Max. measurement range : 1000×800mm

● Confocal NEXIV – 고정밀, 고난이도 시료 측정 시스템



VMZ-K3040

Enables high-precision 2D measurement and fine 3D shape evaluation
Measurement range : 300×400 mm

VMZ-K6555

Enables high-precision 2D measurement and fine 3D shape evaluation
Measurement range : 650×550 mm

Compact! Economy!

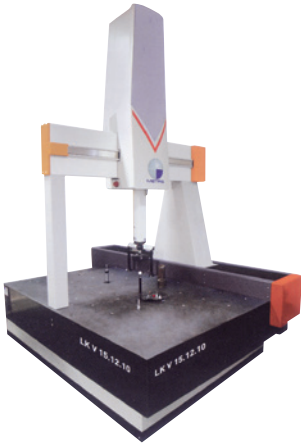
NEXIV VMA-2520

Designed to meet the automated metrology requirements of mechanical parts, electronic devices, dies & molds and medical devices



접촉식 3차원 측정기

3D Metrology Systems



보급형 3차원 측정기

LK V Bridge and LK V HA High Accuracy CMM

The LK V series provides the ultimate stability to deliver significantly improved repeatability.

LK High-speed Scanning Bridge CMM

LK V-SL and LK V-SL HA offer the ultimate in scanning and inspection performance

Horizontal Arm CMM

The fastest high accuracy horizontal arm CMMs on the market

Gantry CMM

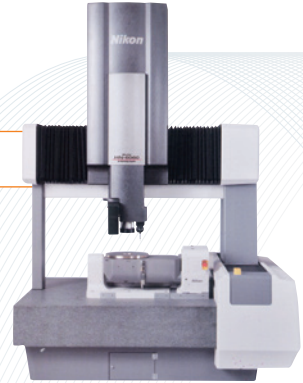
A new breed of large scale CMMs

비 접촉을 결합한 멀티센서 타입의 3차원 측정기

HN-6060

From critical dimension measurement to high-precision and non-contact shape inspection.

- Accuracy : 1.5+4L/1000 μm .
- Measuring Range : 600×600×600 mm
- Five-axis operation control



휴대형 3차원 측정

Accuracy, usability and portability

- 7-axis versions
- High accuracy in volumetric length accuracy test - 25 μm for 7-axis version (6ft)
- Quick and repeatable sensor exchange and support of multiple sensors (laser scanner and tactile probe)
- Lightweight and thermally stable arm thanks to advanced carbon fiber and aluminum alloy components
- Ultrafast Wireless WiFi data transmission for tactile measurements
- Li-ion battery offering hours of measurement autonomy for tactile probe measurements
- Effortless single-handed operation through integrated pneumatic counterbalance and infinite-rotation arm joints

MCAx - Manual CMM Arm

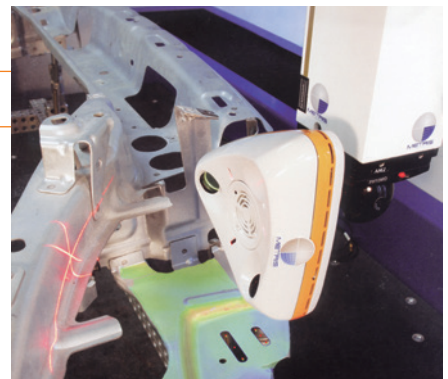
비 접촉 3차원 Laser Scanner

LC60Dx/LC50Cx/LC15 Line Scanners XC65D(-LS) Cross Scanner

Benefits of CMM-Based LASER Scanning!

- Simplified measurement and processing setup
- Reduced measurement time
- Unique capability to measure freeform and fragile surfaces

Applications Inspection and reverse engineering of mobile phones, turbine blades, tools, castings, dies, sheet metal parts, plastics, etc.





Next-Generation Measuring Microscopes - 공구현미경



For Large Stroke Stage (Max, 300mm×200mm×200mm)

- | | |
|---|--------------------------------------|
| MM-800 / LM - Motorized Z Axis | MM-800 / L - Built-in Z Linear Scale |
| MM-800 - 2 axes measurement model | MM-800 / S - For 3rd Party DRO |
| MM-800 / SL - For 3d Party DRO with Built-in Z Linear Scale | |

For Large Stroke Stage (Max, 300mm×200mm×200mm)

- | | |
|--|--------------------------------------|
| MM-400 / LM - Motorized Z Axis | MM-400 / L - Built-in Z Linear Scale |
| MM-400 - 2 axes measurement model | MM-400 / S - For 3rd Party DRO |
| MM-400 / SL - For 3rd Party DRO with Built-in Z Linear Scale | |

Compact Measuring Microscopes

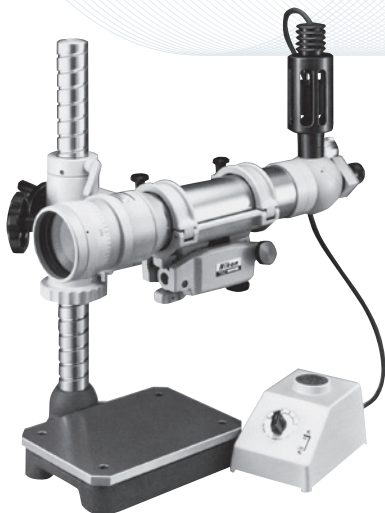
- MM-200 series / 50×50×110mm

Profile Projector - 투영기

Powerful tool for the measurement and inspection of precision components, molds, and other objects. 600 mm, 500 mm and 305 mm effective screen diameters are available.

- V-12B Screen diameter of 305mm
V-24B Screen diameter of 600mm

V-20B Screen diameter of 500mm



Autocollimator

- 직각도, 직진도, 평탄도 등 정밀측정 시스템

6B-LED/6D-LED

Autocollimator is for **angularity, parallelism, perpendicularity, straightness** of precision components, machine guide-way and many other applications.

- Telescope magnification : 38x
- Objective : f= 700 mm, effective aperture : 70 mm
- Measuring range : 30 minutes of arc (both vertical and horizontal axes)
- Minimum reading : 0.5 seconds of arc
- Measuring accuracy : 0.5 seconds of arc within a range of 5 minutes of arc
: 1 second of arc within a range of 30 minutes of arc
- Light source : LED

줌 렌즈 / FA용 렌즈

Zoom Lens / Fixed Lens



고 해상도 ZOOM Video Microscope

High-resolution zoom monocular video microscope systems

MZDH0850
MZDH0850C (Coaxial)
MZDH0850D (Detents)
MZDH0850C-D (Coaxial, Detents)

- Magnification : 0.75x ~ 5x
- Working Distance : 82mm

MZDH0670
MZDH0670D (Detents)
MZDH0670C (Coaxial)
MZDH0670C-D (Coaxial, Detents)

- Magnification 0.58X ~ 7.0X
- Working distance : 82mm (1X objective)

MZDB0746C (Coaxial)

MZDB0746C-D (Coaxial, Detents)

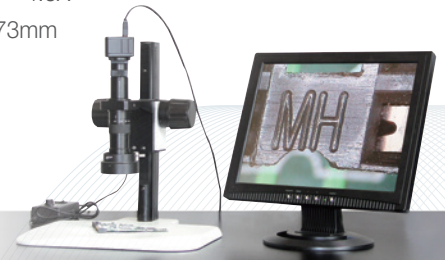
- Magnification : 0.7X ~ 4.6X
- Working distance : 73mm

Mini zoom

MZDV0640

MZDV0640C (Coaxial)

- Magnification : 0.7X ~ 4.6X
- Working distance : 73mm



기본 구성 예

저 배율 Zoom Video Microscope systems

MZD0212

- Optical magnification : 0.2X ~ 1.2X
- Working distance(mm) : 115

MZD0318

- Optical magnification : 0.3X ~ 1.8X
- Working distance(mm) : 115



MTDY series Object Space Telecentric Lens

– 영상처리 시스템 용 렌즈

Working distance : 65mm

- Objective Mag. : 0.8x ~ 4x
- Resolution : 11.2 ~ 8.6 μ m
- D.O.F : 1.67 ~ 0.26mm

Working distance : 115mm

- Objective Mag. : 0.8x ~ 4x
- Resolution : 11.2 ~ 8.6 μ m
- D.O.F : 1.67 ~ 0.26mm



MTD series fixed magnification monocular video microscope objectives

– 영상처리 시스템 용 렌즈

- Working distance : 40 ~ 200mm
- Objective Mag. : 0.1x ~ 8x
- Resolution : 11.2 ~ 8.6 μ m
- D.O.F : 1.67 ~ 0.26mm



MTV series CCTV Lens

– 저 배율 감시용 렌즈

MV2514 Focus : 25mm, Aperture : F1.4 ~ close
MV3521 Focus : 35mm, Aperture : F2.1 ~ close
MV4526 Focus : 45mm, Aperture : F2.6 ~ close
MV6035 Focus : 60mm, Aperture : F3.5 ~ close

- Support : Up to 2/3" Sensor
- Working Distance : 110mm ~ ∞
- Aperture : F1.4 ~ close
- Focal Length : 25mm



카메라 & 소프트웨어

Cameras & Software for Microscopy



Digital Camera System for Microscopy

- 고 배율 / 고 해상도 CCD 카메라

Digital Sight Series

- High-definition color camera head DS-Fi2 5-megapixel camera
- Super high-definition cooled color camera head DS-Ri1 12.7 megapixels
- Super high-definition cooled color camera head DS-Fi1c 5-megapixel CCD
- High-speed live display color camera head DS-Vi1 2.0-megapixel CCD
- High-speed live display color camera head DS-Vi1



Control Unit

- Standalone control unit DS-L3
- PC-use control unit DS-U3

USB 2.0 Digital Camera



TE-Cooled CCD Camera

- SONY ICX655AQ (Progressive)
- 2/3" Color SONY CCD Sensor
- 5.2M, 1.4M Pixels.



EX CCD Camera

- SONY ICX618ALA (Progressive)
- 1/4" B/W SONY EXCCD Sensor
- Resolutions : 640x480 pixels

UH CCD Camera

- SONY ICX655AQ CCD(Color)
- Resolution : 5M, 4M, 3M, 1.4M
- Pixel Size : 3.45μm×3.45μm



U3CMOS14000KPA-MT9F002

- Resolution : 14M pixels
- Pixel Size : 1.4μm×1.4μm
- 6.2fps @4096×3286, 21fps @2048×1644, 54fps @1024×822
- 1/2.3" (6.138mm(H)×4.603mm(V), Diagonal 7.672mm)

U3CMOS10000KPA-MT9J003

- 1/2.2" Color Aptina MT9J003 (Progressive) CMOS Sensor
- 3584×2748 (Approx. 10M Pixels)
- 1.67μm×1.67μm
- 25fps @1792×1372 (Multiple Speed Level)

U3CMOS08500KPA-Special

- 1/2.3" Aptina CMOS Special sensor (Color)
- 3328×2548 (Approx. 8M Pixels)
- 1.67μm×1.67μm



U3CMOS05100KPA-MT9P006

- 1/2.5" Aptina MT9P006 CMOS (Color)
- 2560×1922 (Approx.5M Pixels)
- 2.2μm×2.2μm

U3CMOS03100KPA-AR0330

- 1/3" Aptina AR0330 CMOS Sensor (Color)
- 2.2μm×2.2μm
- 2048×1536 (Approx.3M Pixels)

1D 3648 Pixel Linear CCD Camera

- TCD1304 (1D Toshiba CCD)
- 3648 Pixels
- 8μm×200μm
- Interface : USB2.0

VGA Color Digital Camera

- LCD 모니터용 디지털 카메라

- 1/2.5" CMOS, Max. resolution
- 1024×768, frame rate 60fps
- VGA Output, C/CS Mount
- 4 adjustable horizontal/vertical lines
- Pixel Size : 5.2μm×5.2μm
- Power : DC 5V
- Lens Interface : C-Mount
- Computer graphics card standard : D-sub, 15 pin analog signal



소프트웨어

- Imaging Software for Microscopy



- NIS-Elements Documentation (D)
- NIS-Elements Basic Research (BR)
- NIS-Elements Advanced Research (AR)

Image Analyzer & Measuring Software

TOUPVIEW™



저가형 현미경

Economical & OEM



Parallel Stereo Zoom Microscope - 고성능 실체 현미경

ZOOM 800

- Parallel Optical System
- Magnification : 0.8x ~ 8x
- Working Distance : 78mm



Toolmaker's Microscopes - 공구 현미경

Compact & Economical System!

MV500031

- Monocular with 30° inclination angle
- 15X Eyepieces with cross-hair reticle
- 2X Objective
- Total magnification 30X
- Power : 220V 50Hz



Industrial Microscope - 산업용 현미경

MT2300T

- WF10X/25mm eyepiece,
- Infinity Apochromatic LWD objective : 5X/10X/20X/50X
- Quadruple Nosepiece
- Stage 190x140mm (travel 50x40mm)
- Power : 12V/50W Halogen light.

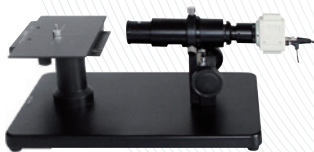


Metallurgical Microscope - 금속 현미경

MT2100T

- 10X/22mm plan objective eyepiece,
- Bright field, Dark field, Polarizing, DIC
- Infinity LWD B/D objectives : 5X, 10X, 20X, 50X, 100X
- Quintuple Nosepiece,
- 6" stage, travel 158x158mm
- Power : 90-240V

IC Pin Detector Zoom Microscope - IC핀 검사 현미경



MZ3-7001-A

- 0.7-5X Micro Zoom Body
- 1.0X Objective Lens
- Horizontal Base Stand,
- 1/3" Color CCD Camera
- 12V Power Supply

Video Endoscope & Bore Scope - 전자내시경



MZ3-7001-A

- Monitor : 5" LCD Monitor
- Lamp : Metalhalide, Cold Light, 24W
- Viewing : 80° ~ 120°, Direct View
- Depth of Field : 200mm ~ ∞
- Length : 1.5 ~ 12m
- Horizontal Resolution : 480 TV Lines
- Outer diameter : Ø6.9, 8.5, 15, 16mm
- Bending Angle : 4-Ways, 120°

3-D Video Microscope - 3-D 비디오 현미경



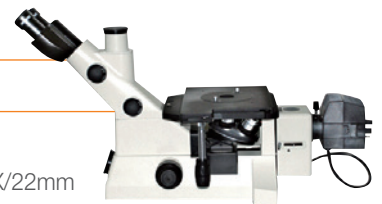
M-N3D

- 0.7X-4.5X Zoom Body
- 35° angle attachment with motorized control
- Working Distance : 46mm-331mm
- Bright LED lights with area control

Inverted Metallurgical Microscope - 도립 금속 현미경

MT3200T

- Infinity optical system
- Wide field eyepiece WF10X/22mm
- LWD Plan objectives 5X, 10X, 20X, 50X, 100X
- Stage size : 226mmx178mm (Travel 40x40mm)
- Observation : Bright/Dark Field, DIC as option



주변기기

Accessories

●● Stands



Multi-Angle Stand

- Dimensions : 537×460×406mm
- Horizontal Adjusting Range of Angle : 80°
- Vertical Adjusting Range of Angle : 60°
- The stand can rotate freely for 360°



Track Stand

- 76mm Scope Holder
- Track Length : 500mm
- LED Transmitted Lighting
- With a Manual Stage : 217×155mm
- Travel Distance: X : 80mm, Y : 90mm



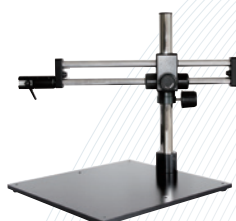
Multi-Angle Stand

- Easy to use leg lock
- Grooved tubular legs
- 3-position leg angle adjustment
- Gearless Center Column
- Super low camera height of 40cm
- Rubber leg tips
- Pan Head with 4 independent movements
- Dual axis bubble level



Universal Stands

- 360° free in horizontal direction
- Length of Horizontal Arm : 250mm
- Length of Gradient Arm : 380mm
- Maximum Radius : 380mm
- Minimum Radius : 275mm
- Max. Load : 5.36kg



Universal Stand

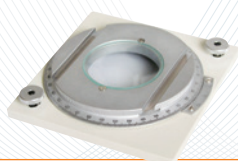
- Base size : 285×260×18mm
- The length of horizontal bar : 530mm
- Vertical post : 384mm
- Maximum load : 9.5kg



X, Y Mechanical Stage

- Dimensions : 180×155×34mm
- Working Size : 180×155×26mm
- Travel : 75×55mm
- Dia. of Glass : 95mm

●● Stages



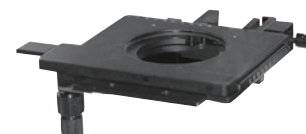
Rotating Table

- Top Dimensions : 150×150mm
- Diameter of Glass : 65mm with 360° scale



Inspection Stage

- Dimensions : 440×290×36mm
- Travel : XY 300×250mm travel, with
- Back Light Window : 19×14.5cm



Mechanical Stage

- Dimensions : 180×150mm
- Travel : XY 90×60mm

●● Holders



SF5 Holder

- Main Body Holder : Ø76mm
- Post hole : Ø15.8mm
- Center distance of two hole : 140mm



SF9 Holder

- Coaxial Fine/Coarse Handwheel
- Post hole : Ø25mm.
- Main Body Holder : Ø76mm.
- Center distance of two hole : 150mm



SF5 Holder

- Post hole : Ø25mm.
- Main Body Holder : Ø45mm.
- Center distance of two hole : 140mm



Tilting Stage

- Top Stage Dia. 110mm
- Bottom Stage Dia. 95mm
- Total Height 60mm
- Angle : 0 ~ 45° Tilted
- Rotation : 360°

주변기기 Accessories

●● Illuminators



Fiber Optics Illuminators

- 24V 150W Halogen
- Input 110/220 50/60Hz
- Color temperature 3200K



DOME Illuminator

- Power Supply : AC 100-240V, 50/60Hz
- Output : DC 24V
- Top mount : Ø78mm(outer)×Ø60mm(inner)
- Top caliber : Ø40mm
- Bottom opening size : Ø123mm(outer)×Ø92mm(inner)



LED Ring Illuminator

- Input : AC 90-240V 50/60Hz
- 144 LED Bulbs
- Max. Opening : 61mm



LED Point Illuminator (Coaxial)

- Input voltage : 100 ~ 240V
- Output voltage : 5V DC
- LED power : 3W
- Color : White, red, yellow, green, blue, purple



LED Point Illuminator

- 2W spot light
- AC 90-240V 50/60Hz
- Output : DC 18-24V, 6W Max



LED Back Light Illuminator

- AC 90-240V 50/60Hz
- 144LED Bulbs
- Max. Opening : 61mm
- Divided into 4 areas



Dual Pipe LED Illuminator

- 1w×2 Dual Pipe LED
- Color temperature : 5500k
- Input AC 95-245V



Area Control LED Illuminator

- 2×2" active area
- Dimension : 86×52×16mm
- Input : AC 90-240V 50/60Hz
- Output : DC 18-24V, 6W Max

●● Fiber Optics & LED Unit



Dual Pipe Light Guide

- Goose Neck Dual Pipe
- Fiber dia. : 7.1mm
- 460mm in length
- Focusing Lens



Ring Fiber Optics

- Ring Dia. : 58mm
- Fiber dia. : 10mm
- 1m in length (주문제작)



Single Pipe Light Guide (Flexible)

- Ring Dia. : 58mm
- Fiber dia. : 10mm
- 1m in length (주문제작)



Single Pipe Light Guide (Rigid)

- Goose Neck Dual Pipe
- Fiber dia. : 6mm
- 460mm in length
- Focusing Lens



Line Light Guide

- Fiber Optic Cable : Ø10mm
- Output 1×71mm
- 1m in Length



Color Filters

- Blue, Red, Yellow, Violet, Green, Diffuser
- UV / IR

Objectives



Infinity LWD Objective



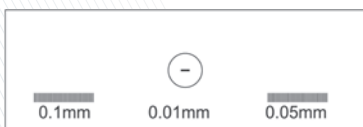
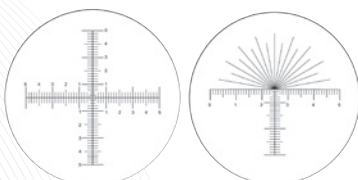
NUV / NIR Objective



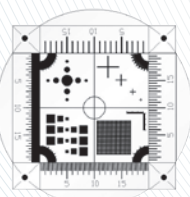
접안렌즈용 C-Mount Lens

Scales & Reticles

Reticles & Stage Micrometers

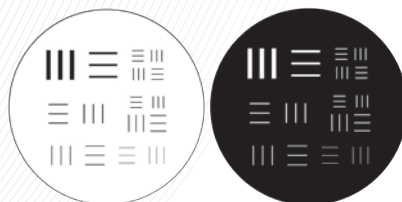


- Crosshair Reticle : Ø24mm, Crosshair 10mm/100 Div.
- Crosshair Reticle : Ø24mm, Crosshair 12mm/120 Div.
- Cross line Reticle : Ø24mm, Plain Crosshair
- Net Grid Reticle : Ø24mm, Net Grid 10×10mm/10×10mm
- Multi-Scale : Ø24mm, 0-180°/10°Half Protractor
Linear Scales : 10mm/100/0.5mm
- Crosshair Reticle : Ø20mm, Crosshair 10mm/100 Div.
- Crosshair Reticle : Ø20mm, Crossed 10mm/100 Div.
- Crosshair Reticle : Ø20mm, Plain Crosshair.
- Net Grid Reticle : Ø20mm, Net Grid 10×10mm/10×10mm
- Scaled Reticle : Ø18mm, Straight Line 5mm/100 Div.
- Scaled Reticle : Ø18mm, Single Line 10mm/200 Div.
- Scale Micrometer : Dual Axis Linear (1mm/100/0.01mm)
- Scale Micrometer : Linear (1mm/100/0.01mm)
- Scale Micrometer : Linear (1inch/100/0.001inch)
- Multi-Function Scale Micrometer : Dual Axis (1mm/100/0.01mm), Linear(50mm/500/0.1mm)
- Multi-Function Scale Micrometer : Linear (10mm/100/0.1mm), Linear (1mm/100/0.01mm), Linear (10mm/200/0.05mm)



Multi – Function Scale Micrometer

- Diameter : 35×2mm
- Mark : Positive 25 ~ 160 lp/mm
Negative 25 ~ 160lp/mm



Resolution Target

- 1w×2 Dual Pipe LED
- Color temperature : 5500k
- Input AC 95-245V

LCD Monitors, Color / BW



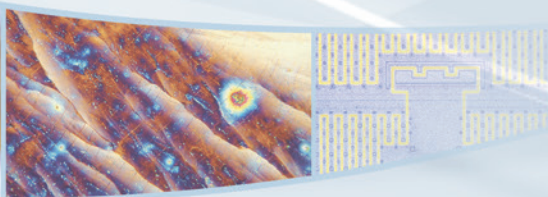
- Size : 7", 9", 12", 14", 17", 20"
- Input Signal : A/V, VGA, BNC
- Power : 90 ~ 240VAC

Magnifiers



- 3x, 5x diopter
- Lens Dia. 5" (127mm)
- 22W circular fluorescent
- 40" arm, big clamp

- 3x, 5x, 7x diopter,
- 13W-2U fluorescent lights
- 185×115mm crown glass lens
- 40" arm, big clamp, ESD safe



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