

제품소개 (Product Introduction)

■ TZM-Series 디지털현미경 (TZ.M-Series)

WWW.OMSBIZ.COM

COMPANY OVERVIEW

OMS는 3D EDOF(Extended Depth of Field, 확장된 초점 심도) 기반의 3D DIGITAL 현미경, 콘포컬(Confocal) 및 광학 현미경, 그리고 측정·분석 솔루션을 전문으로 하는 기업입니다. 2012년 공식 설립 이전부터 다양한 종류의 3D 현미경 및 분석 솔루션을 한국 산업의 연구소 및 품질관리(QA/QC) 분야에 공급해 왔으며, 견고한 판매 및 유통 네트워크를 구축해 왔습니다. 현재 스위스 Microqubic사의 3D 디지털현미경의 독점대리점과 독일 Leica Microsystems(Danaher Corp.)의 공식 대리점으로서 다양한 분야에 해당 제품을 공급하고 있습니다.

빠르게 발전하고 있는 반도체, 전기전자, 디스플레이, 자동차, 소재 산업의 요구에 발맞추어, OMS는 고객의 사용 환경에 최적화된 현미경 고객 맞춤(Customized Modification) 서비스를 제공합니다. 특히 3D 디지털 현미경, 공초점 현미경, 광학 현미경 분야에서 시장을 선도하며 정밀하고 신뢰성 높은 솔루션을 공급하고 있습니다.

또한 검사 및 측정 분야에서 축적된 전문 경험을 바탕으로, 광학 부품, 조명 시스템, 측정 소프트웨어개발 대한 전문적인 맞춤형 솔루션을 제공하여 산업의 다양한 요구에 능동적으로 대응하고 있습니다.

OMS는 귀사의 요구를 정확히 이해하고, 최적의 결과를 이끌어낼 수 있는 Partner가 될 것입니다.



2025 ~

- 스위스  **7축전동 3D 디지털현미경 독점대리점**
- **과제완료**(산학연 Collabo R&D **23~25년**)
(3차원 형상 및 미세패턴 검사를 위한플로우스캔방식의 3D광학 프로파일 장비개발)

2024 ~

- **4K DIGITAL 검사현미경 CE인증** 및 AMKOR판매
- 서울대학병원,길병원 수술용 **“가상현실(VR)광학 모듈”** 납품
(국내최초)

2020~

- **기업부설 연구전담부서 인증**
- 특허취득 **“FLOW SCAN 방식을 적용한 3D EDOF 스캐닝 장치”**
- **TZ/TZM시리즈 CE인증**



2017 ~

- 환경부 Radon 자동COUNTER 개발납품 | RPC-1000
- **대면적 패턴검사현미경** 납품 | MLM1210A
- 중국BOE | **TTS1850x1500 TURN TABLE STATION**납품
- **TZ/M시리즈** 디지털검사현미경 **“14억 수출계약”**

2016 ~

- 현대자동차, 삼성전기, LG, SKC...**주요 거래선 업체등록**
 **HYUNDAI**  **SAMSUNG**  **LG전자**  **SKC**  **LG Energy Solution**

2015 ~

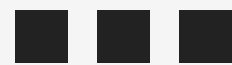
- 독일  **“Leica Microsystems공식대리점”**계약 및 3D현미경 총판

2014 ~

- 주식회사 **오엠에스 회사설립**
- **“TZ/TZM시리즈 디지털현미경”** 개발 및 판매 (“국내최초”)
- 2D Measurement for microscopes **소프트웨어개발**
- ITO PATTEN 검사 및 측정 **현미경 Modify** 및 판매

~ Before 2013

- - 10+ 일본**HIROX KOREA** Sales
- - 5+ years 한국**HUVITZ 현미경사업부 MKT** 국내영업총괄





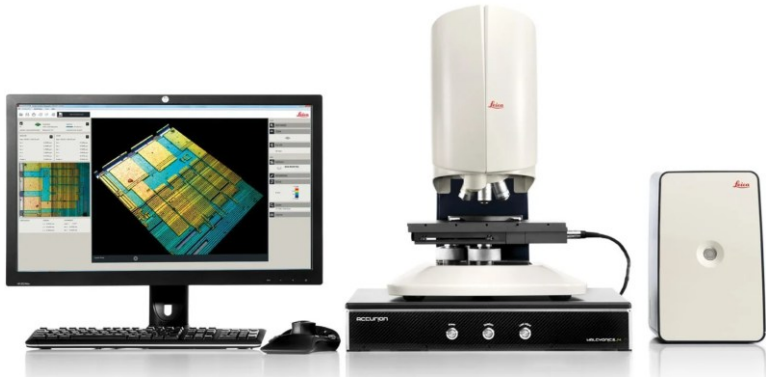
공식인증대리점

"**Leica Microsystems**는 미국 상장기업인  **Danaher Corporation**의 자회사로, 1849년 독일 Wetzlar에서 설립되었습니다. 광학 분야의 선도 기업으로서 고급 현미경과 이미징 솔루션을 제공하며, **OMS는 Leica Microsystems의 공식 인증 대리점으로 전문적인 광학분야의 선도기업입니다.**"

Leica MICROSYSTEMS (Products Line)



3D WSI & Confocal
(DCM8 3D)



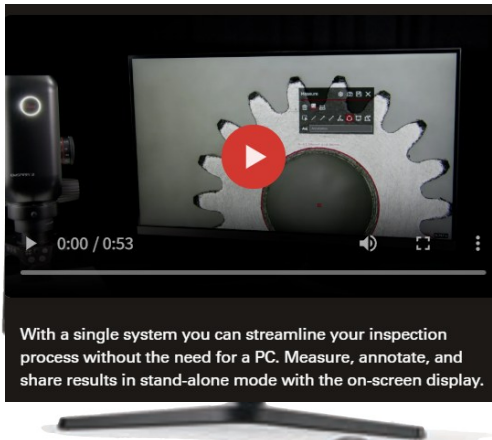
3D CMM,
(Coordinate Measuring Machine)



Auto Particle Counter
(DM4,6, Emspira3)



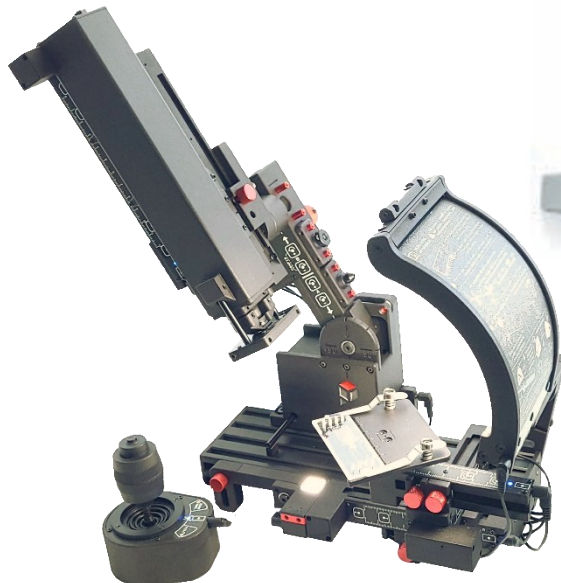
2D
DIGITAL



2D Digital Microscope
(Emspira3)



LOW POWER
(Stereo)

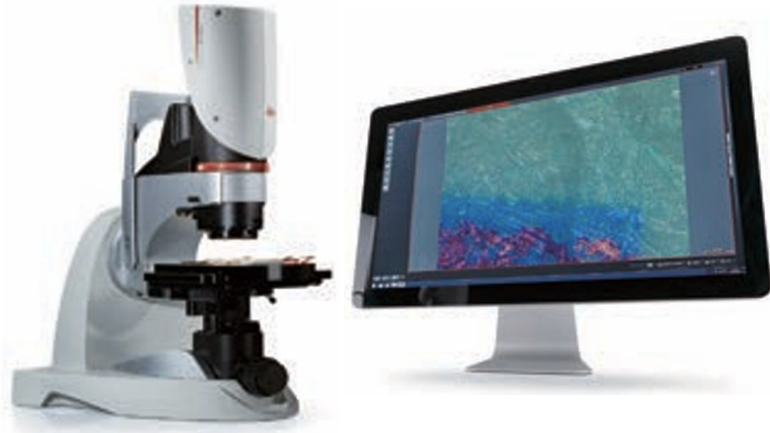


3D Imager Pro
(MRCL700)

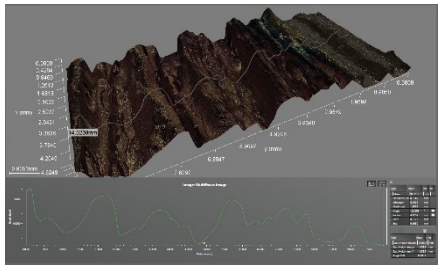


HIGH POWER
(OM, Polarized)

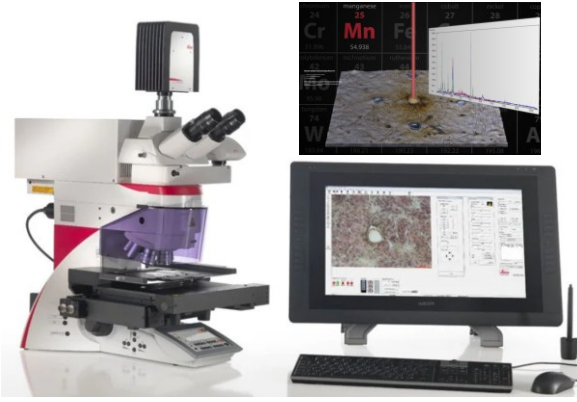
3D
DIGITAL



3D Digital Microscope
(DVM6 A)



3D Digital Microscope
(DVM6 M)



HIGH POWER
(Automation / Inverted)



HIGH POWER
(Large Stage)

200x
magnification

1,000x
magnification

■ TZM-Series 디지털현미경

TZM Series “Flexible Resolution & Observation”

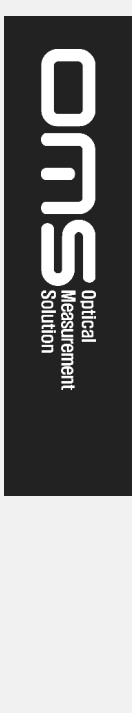
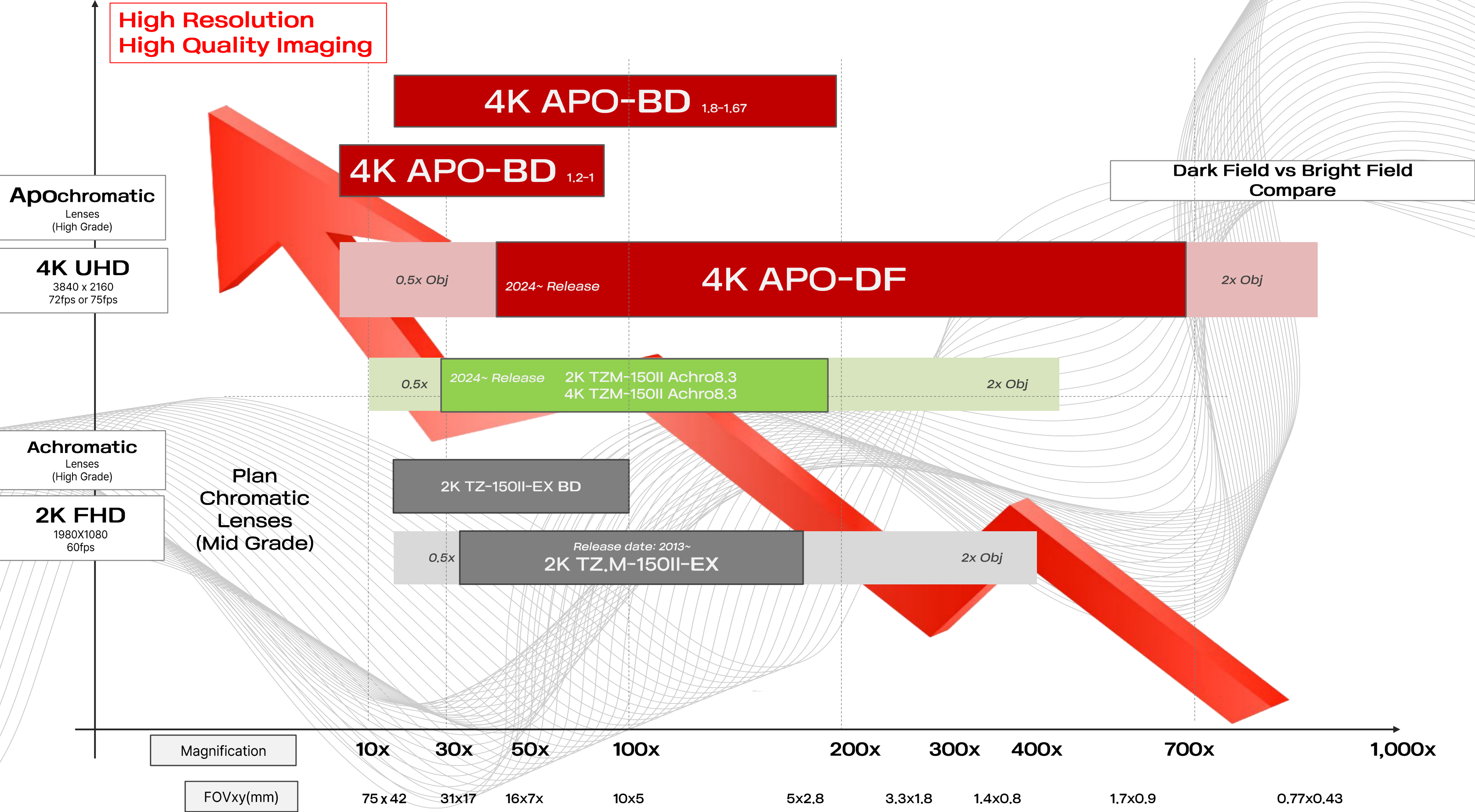
TZ/TZM-Series Specifications

Category			TZ*M Serise				TZM-APO Serise				REMARK
MODEL		PRE	TZ-150II		TZM-150II						
		MID	EX	EX-BD	Achro 8.3	Achro 8.3	APO 8	APO10 -DF	APO10-BD	APO10-BD	16Y~ SDV, SEV, SEVT
		DETAIL			1.8-0.5	1.8-0.5	1.8-1	1.8-1.67		1.8-1.67	1.2-1
CAMERA	RESOLUTION, FPS		 2K , 60fps			 4K, 72fps				4K, 75fps	
OPTICAL	OPTICAL GRADE ZOOM RATIO Standard WD(mm) Click Stop		Achro				APO				Chromatic aberration
			6.3:1		8.3:1			10:1			
			100	70	86			100	70		
			N/A		YES						
	Standard magnification		x29~188	x29~188	x25~209	x23~194	x23~194	x39~387	x39~387	x16~159	
	FOV	X(mm)	18.1~2.8	18.1~2.8	21.2~2.5	25.7~3.1	25.7~3.1	15.45~1.54	15.45~1.54	37.7~3.77	
		Y(mm)	10.0~1.6	10.0~1.6	11.6~1.4	14.5~1.7	14.3~1.7	8.62~0.86	8.62~0.86	21.0~2.10	
	Option	Mag 2.0X (Option)	x58~375	x58~375	x50~417	x46~387	x46~387	x77~774	x77~774	x32~317	It allows up to 2x zoom
		FOVx	9.1~1.4	9.1~1.4	10.6~1.3	12.8~1.5	12.8~1.5	7.72~0.77	7.72~0.77	18.9~1.89	
		FOVy	5.0~0.8	5.0~0.8	5.8~0.7	7.3~0.9	7.3~0.9	4.31~0.43	4.31~0.43	10.5~1.05	WD: 39mm
		Mag 0.5X (Option)	x15~94	x15~94	x13~104	x12~97	x12~97	x19~194	x19~194	x8~x79	It can reduce to 0.5x zoom
		FOVx	36.3~5.6	36.3~5.6	42.3~5.1	51.3~6.2	51.3~6.2	30.9~3.09	30.9~3.09	X: 75.4~7.54	
		FOVy	20.0~3.1	20.0~3.1	23.3~2.8	29.0~3.5	29.0~3.5	17.25~1.72	17.25~1.72	Y: 42.0~4.20	WD: 180mm
illumination	Reflected	DF LED	YES								Ring(DF), Coaxial(BF) BD=BF+DF
		BF	N/A	YES	N/A			YES			
		BD									
	Transmitted	Transmitted LED	YES								
		FTG inspection		YES							Model: TC4028
STAND	Focus Knob	Z-Stroke	 Z-Stroke: 50mm: Coarse, Fine/Coarse, Z-Stroke: 180mm: Fine/Coarse(Model: STL-420)								17.8mm / 100μm
	BASE	SIZE(X,Y,Z)	400x350x350mm								
DISPLAY	MONITOR	Size, Resolution	24" FHD			27" 4K UHD					
2D MEASUREMENT		Built-in	The Standard product offers live video and 2D measurement functions, and can run independently without a PC.								
		Data transfer	Supports 8G SD, PC connection USB 2.0			Supports USB&SD memory, Wi-Fi, and LAN, PC connection through a USB 3.0					
PC		PC & Monitor	27" Monitor & i5/8G/256G/Win11Pro or More								
		2D MEASURE TOOLS SW	Live video and 2D measurement functions require software installation								
		■ This option is required only if company security restrictions prohibit USB, Wi-Fi, LAN, and network usage, and data must be handled on an authorized PC. Otherwise, it is unnecessary as the product is capable of measurement and storage independently without a PC.									

TZM-Series Performance 가이드



OPTICAL COMPONENT | 3D MEASUREMENT | MODIFY SOLUTION



■ TZM Series Digital Camera 선택가이드

4K Series (New)



4K UHD **STARVIS 2**

Item	Description
Resolution	8MP, 3840(H) x 2160(V)
Frame Rate	72fps
Pixel Size	2.0 x 2.0μm
Sensor Size	1/1.8" (8.86mm)
Sensor Type	CMOS
Shutter Mode	Rolling
ADC(bit)	10
Data Interface	HDMI, USB3.0, USB2.0, LAN, WiFi USB Memory Stick, SD Card
Dimensions	105.7mm x 78mm x 70.8mm
Weight	800g

4K UHD **STARVIS**

Item	Description
Resolution	8MP, 3840(H) x 2160(V)
Frame Rate	75fps
Pixel Size	2.9 x 2.9μm
Sensor Size	1/1.2" (13.33mm)
Sensor Type	CMOS
Shutter Mode	Rolling
ADC(bit)	10/12
Data Interface	HDMI, USB3.0, USB2.0, LAN, WiFi USB Memory Stick, SD Card
Dimensions	105.7mm x 78mm x 70.8mm
Weight	800g

2K Series

High Resolution TZ / TZM Serise is
High Speed Full Frame Rates
The built-in 2D Live Measurement function



Full HD **STARVIS**

Item	Description
Resolution	2.07MP, 1920(H) x 1080(V)
Frame Rate	30 fps @ USB 2.0, 25 fps @ HDMI
Pixel Size	2.9 x 2.9μm
Sensor Size	1/2.8"
Sensor Type	CMOS
Shutter Mode	Rolling
ADC(bit)	10/12
Data Interface	HDMI, USB 2.0, SD card
Dimensions	90.7mm x 78mm x 70.8mm
Weight	265g

TZM Series LENS 선택가이드

APO Zoom Series 10:1



SPECIFICATIONS	
Division	Detail
Zoom Ratio 10:1	0.5~5
Mag(27" Monitor) C=1.67, 1/1.2	39~387x
Working Distance	100mm
Max	774x (WD39mm)
Lens Grade	APO
Distortion	0.10%
Mount C-Mount	YES
Click-Stop	YES / 12step
Coaxial / Polarized	Option
Measurement Tools	YES

CHART							
보조대물	Zoom Indicator	27" 685				NA (mm)	DOF (mm)
		배율	X (mm)	Y (mm)	대각선	연동	연동(근사치)
1x WD 100mm	0.50	39	15.45	8.62	17.69	0.023	5.30
	0.70	54	11.04	6.16	12.64	0.030	3.11
	0.80	62	9.66	5.39	11.06	0.037	2.05
	1.00	77	7.72	4.31	8.85	0.041	1.67
	1.50	116	5.15	2.87	5.90	0.052	1.04
	2.00	155	3.86	2.16	4.42	0.057	0.86
	2.50	194	3.09	1.72	3.54	0.060	0.78
	3.00	232	2.57	1.44	2.95	0.063	0.71
	3.50	271	2.21	1.23	2.53	0.077	0.47
	4.00	310	1.93	1.08	2.21	0.090	0.35
	4.50	348	1.72	0.96	1.97	0.099	0.29
	5.00	387	1.54	0.86	1.77	0.107	0.25

APO Zoom Series 8:1



SPECIFICATIONS	
Division	Detail
Zoom Ratio 8.3:1	0.3~2.5
Magnification (27" Monitor)	23~194x
Working Distance	86mm
Max	388x (WD39mm)
Lens Grade	APO
Distortion	0.10%
Mount C-Mount	YES
Click-Stop	YES / 11step
Coaxial / Polarized	NA
Measurement Tools	YES

CHART							
보조대물	Zoom Indicator	모니터 27" 685				NA (mm)	DOF (mm)
		배율	X (mm)	Y (mm)	대각선	연동	연동(근사치)
1x WD 86mm	0.30	23	25.67	14.33	29.40	0.021	6.24
	0.40	31	19.25	10.75	22.05	0.029	3.27
	0.50	39	15.40	8.60	17.64	0.037	2.01
	0.75	58	10.27	5.73	11.76	0.041	1.64
	1.00	78	7.70	4.30	8.82	0.046	1.30
	1.25	97	6.16	3.44	7.06	0.052	1.02
	1.50	117	5.13	2.87	5.88	0.058	0.82
	1.75	136	4.40	2.46	5.04	0.064	0.67
	2.00	155	3.85	2.15	4.41	0.073	0.52
	2.25	175	3.42	1.91	3.92	0.082	0.41
2.50	194	3.08	1.72	3.53	0.090	0.34	

Achromatic Series 8.3:1



SPECIFICATIONS	
Division	Detail
Zoom Ratio 8.3:1	0.6~5
Magnification (27" Monitor)	23~194x
Working Distance	95mm
Max	388x (WD39mm)
Lens Grade	Acromatic
Distortion	0.10%
Mount C-Mount	YES
Click-Stop	YES / 11step
Coaxial / Polarized	Option
Measurement Tools	YES

CHART							
보조대물	Zoom Indicator	모니터 27" 685				NA (mm)	DOF (mm)
		배율	X (mm)	Y (mm)	대각선	연동	연동(근사치)
1x WD 86mm	0.60	23	25.67	14.50	29.48	0.021	3.13
	0.80	31	19.25	10.88	22.11	0.025	2.21
	1.00	39	15.40	8.70	17.69	0.033	1.27
	1.50	58	10.27	5.80	11.79	0.043	0.75
	2.00	77	7.70	4.35	8.84	0.053	0.49
	2.50	97	6.16	3.48	7.08	0.060	0.38
	3.00	116	5.13	2.90	5.90	0.067	0.31
	3.50	136	4.40	2.49	5.05	0.078	0.23
	4.00	155	3.85	2.18	4.42	0.790	0.00
	4.50	174	3.42	1.93	3.93	0.085	0.19
	5.00	194	3.08	1.74	3.54	0.090	0.17

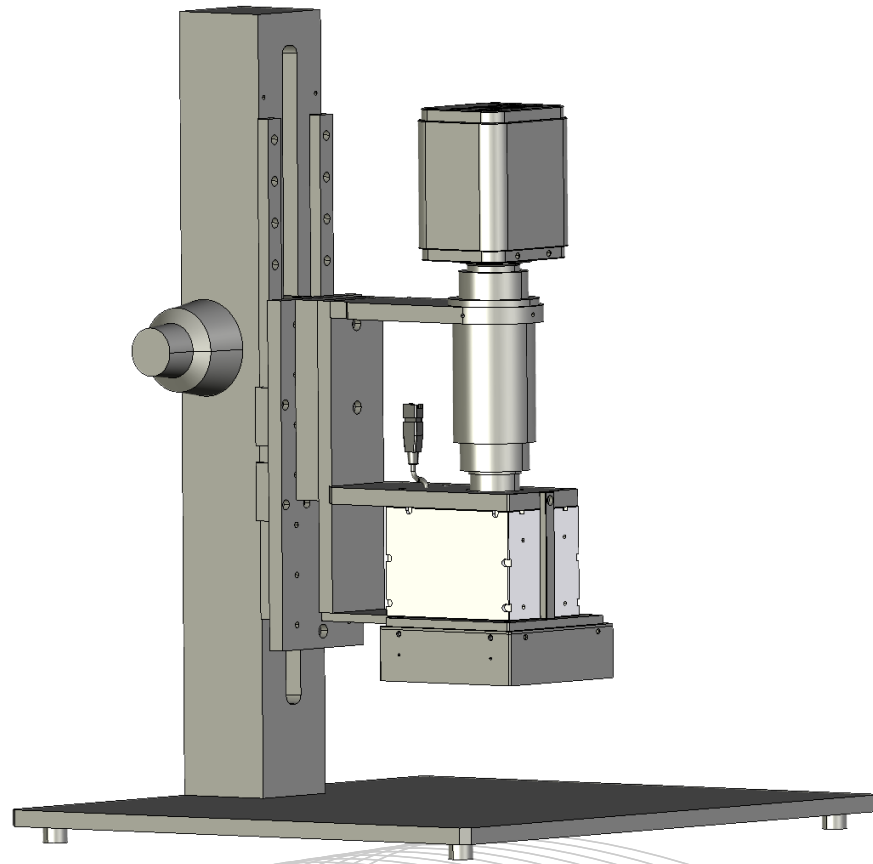
Achromatic Series 6.3:1



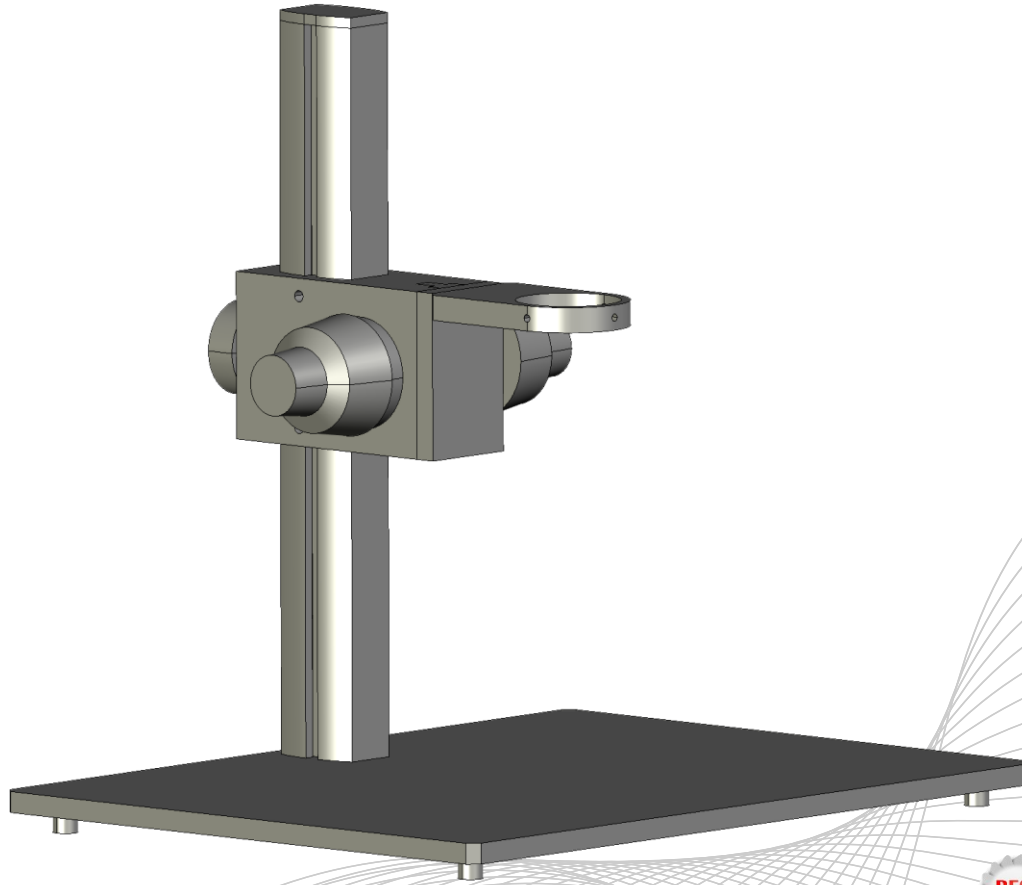
SPECIFICATIONS	
Division	Detail
Zoom Ratio 6.3:1	0.7~4.5
Magnification (24" Monitor)	29~188x
Working Distance	100mm
Max	375x (WD39mm)
Lens Grade	Acromatic
Distortion	0.10%
Mount C-Mount	YES
Click-Stop	NA
Coaxial / Polarized	NA
Measurement Tools	YES

CHART							
보조대물	Zoom Indicator	모니터 24" 605				NA (mm)	DOF (mm)
		배율	X (mm)	Y (mm)	대각선	연동	연동(근사치)
1x WD 86mm	0.70	29	18.14	10.00	20.72	0.025	2.04
	1.00	42	12.70	7.00	14.50	0.033	1.21
	1.50	63	8.47	4.67	9.67	0.043	0.80
	2.00	83	6.35	3.50	7.25	0.530	0.38
	2.50	104	5.08	2.80	5.80	0.060	0.29
	3.00	125	4.23	2.33	4.83	0.670	0.20
	3.50	146	3.63	2.00	4.14	0.078	0.16
	4.00	167	3.18	1.75	3.63	0.790	0.13
	4.50	188	2.82	1.56	3.22	0.090	0.09

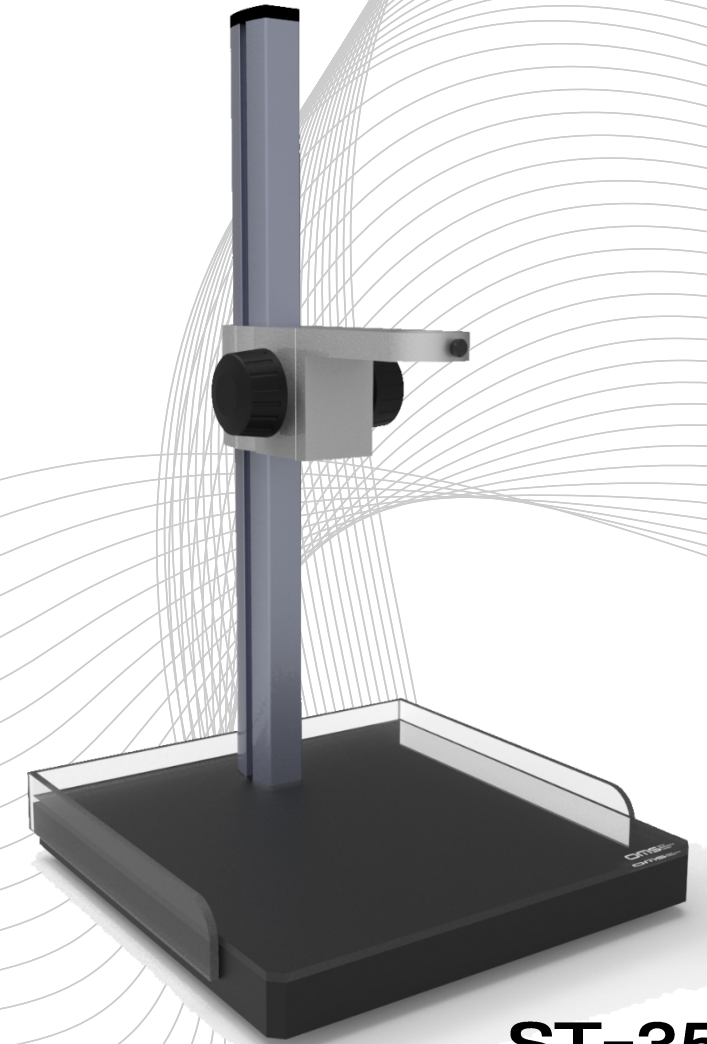
■ TZM Series STAND 선택가이드



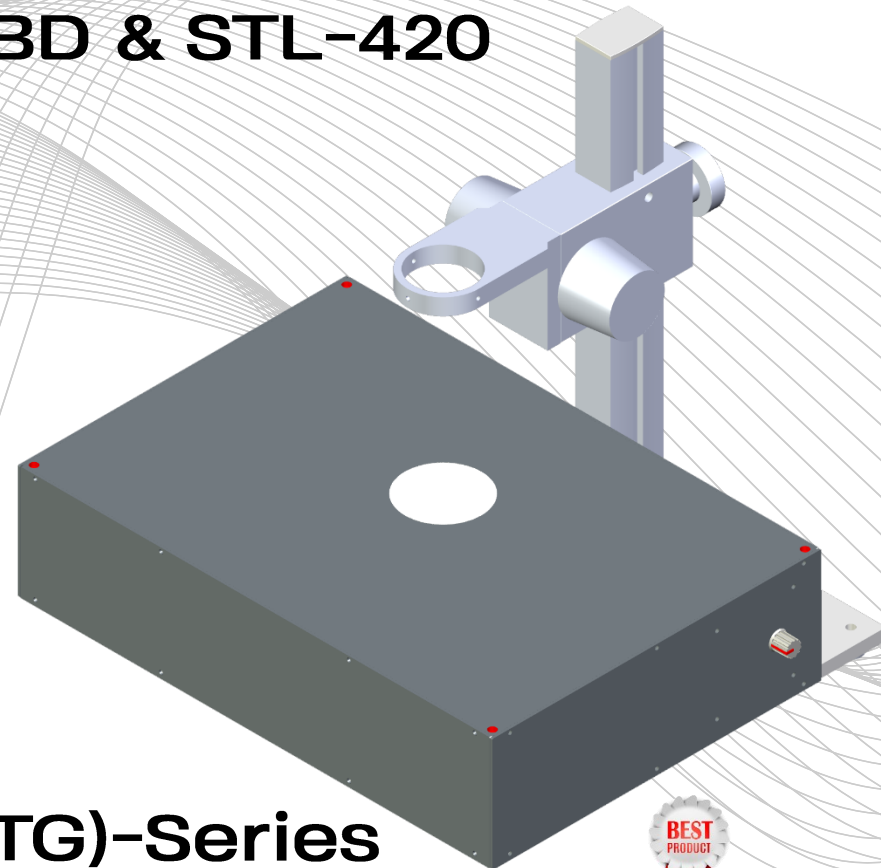
BD & STL-420



ST-150II



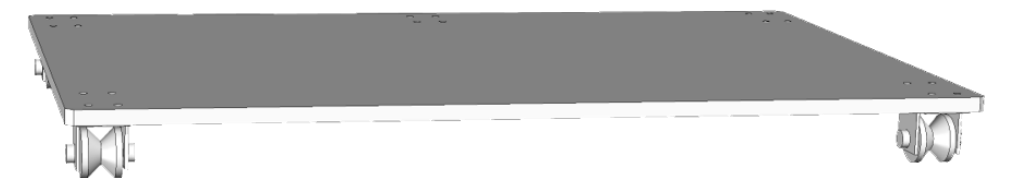
ST-350II



FTG(UTG)-Series



X-Silding



ROL-350II

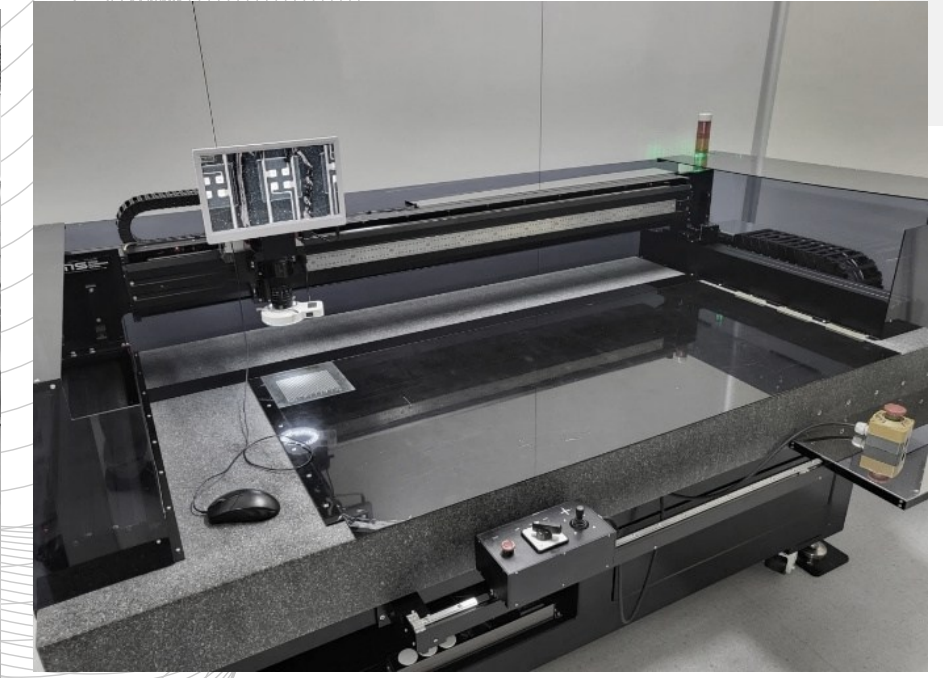
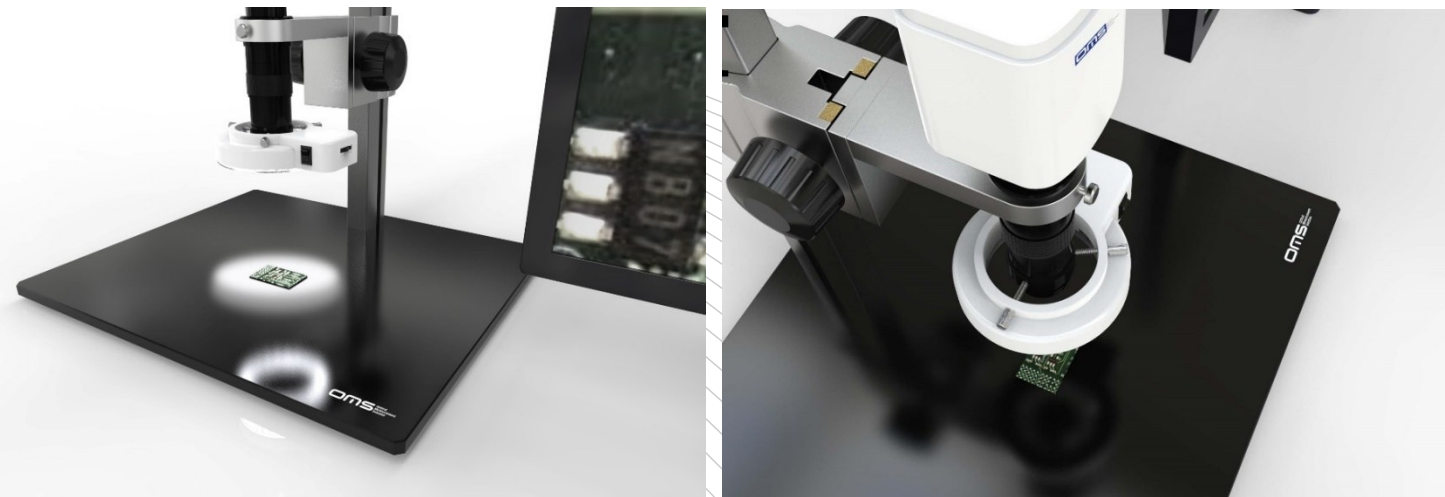
■ ODM & OEM

We provide OEM and ODM services for our clients

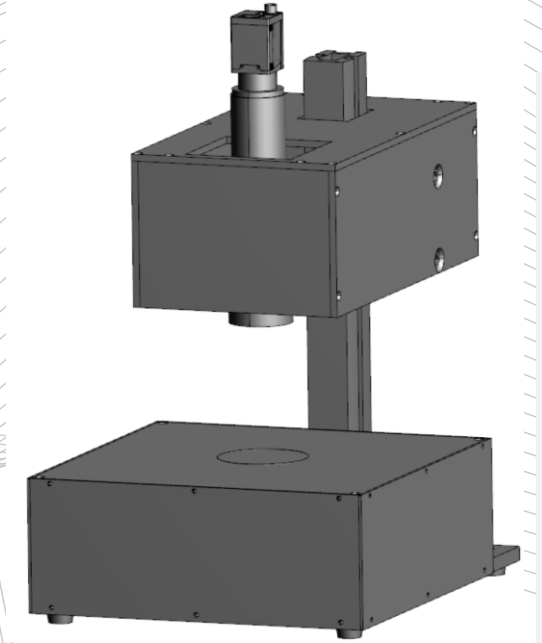
ODM & OEM

WHAT WE OFFER (TZM-Series)

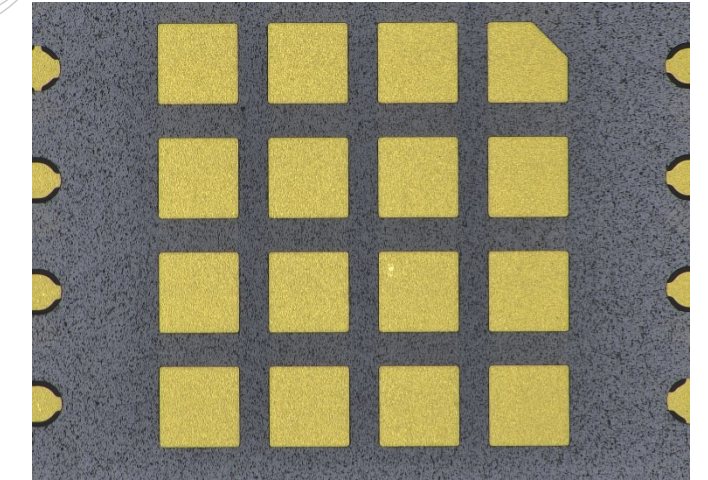
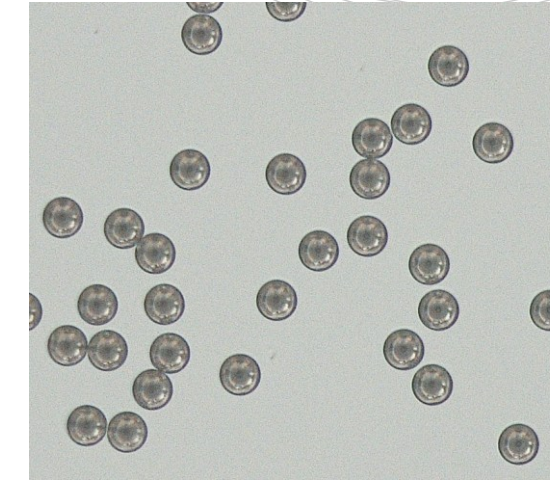
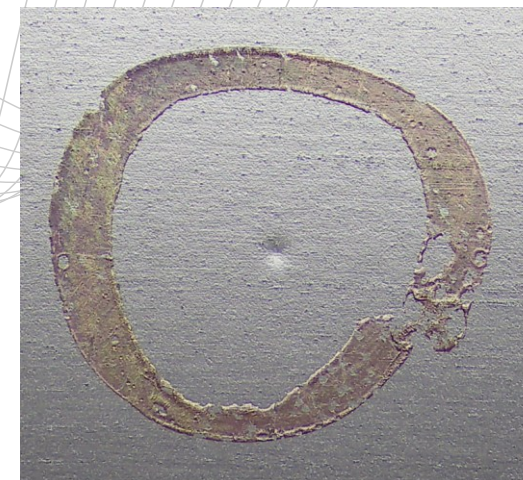
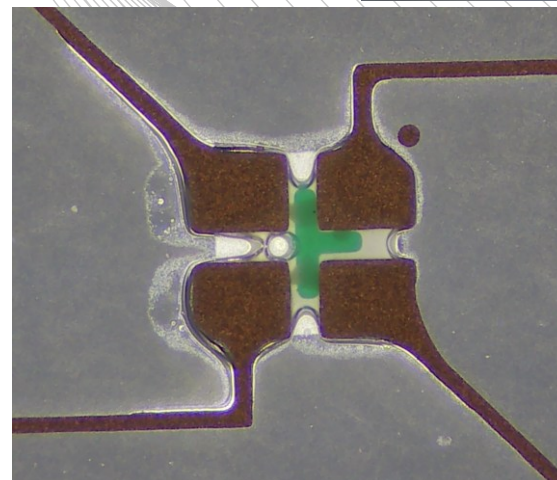
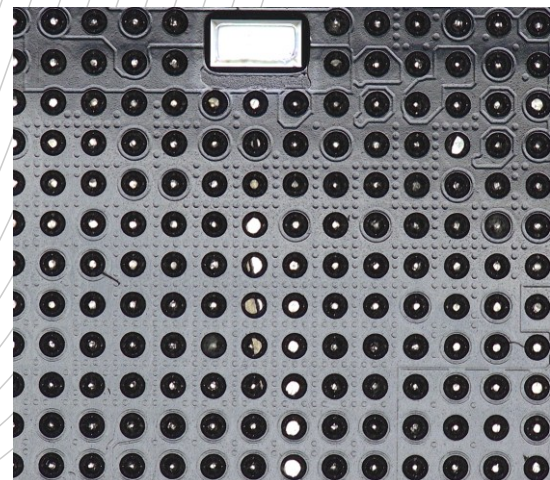
Launched in 2015 as Korea's first, the TZ.M Series 2D Digital Microscope delivers high-resolution images directly to a monitor without a PC. Trusted by Samsung & Electro-Mechanics, LG, and Amkor, it sets the standard in digital microscopy.



FTG(UTG)-Series



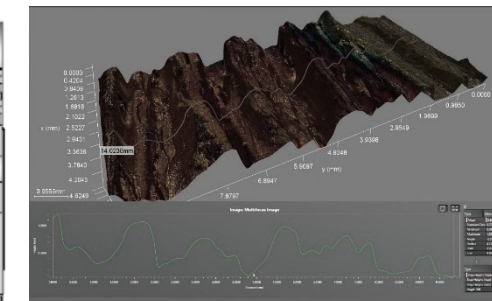
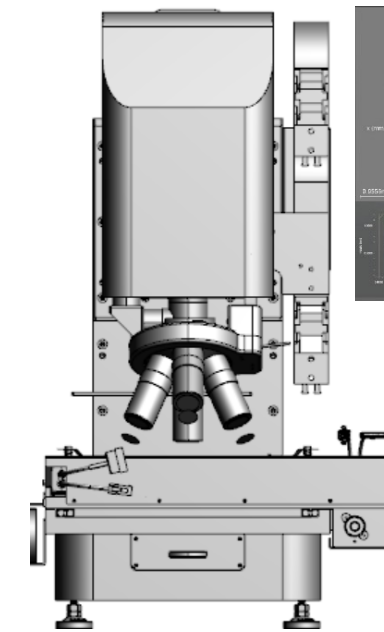
oms
Optical
Measurement
Solution



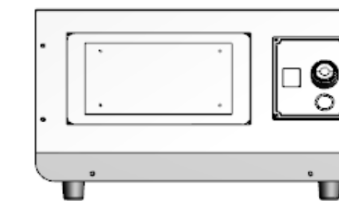
ODM & OEM

WHAT WE OFFER (Customized)

We specialize in the design, customization, and supply of optics, confocal microscopy, WSI systems, lighting, and software, all tailored to our customers' requirements.



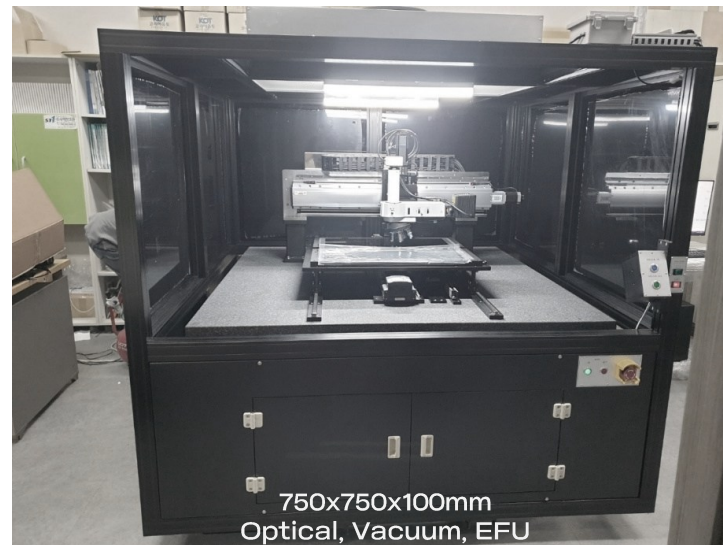
3D EDOF Scanning



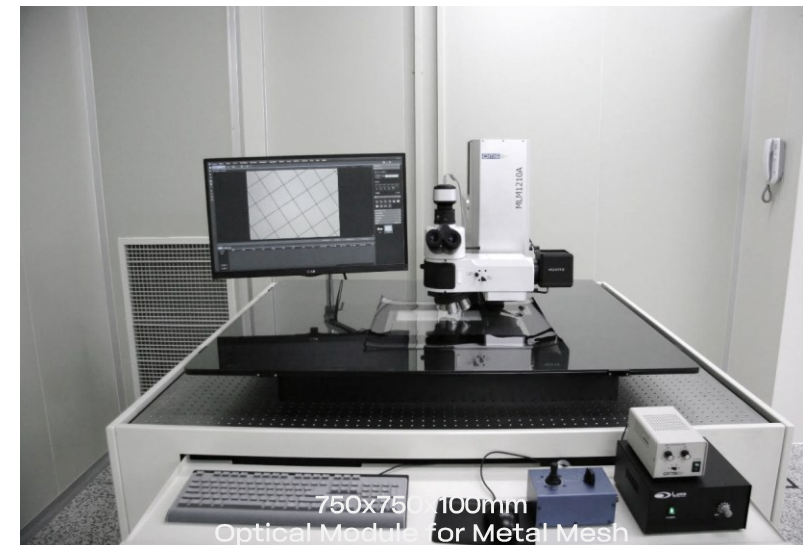
Rn Auto Scan Counter(RPC-2000PLUS)



1900x1900mm
Turn Table



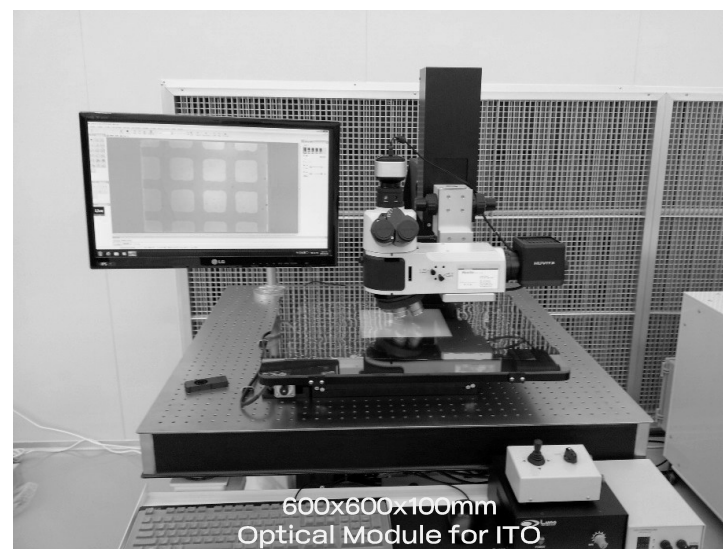
750x750x100mm
Optical, Vacuum, EFU



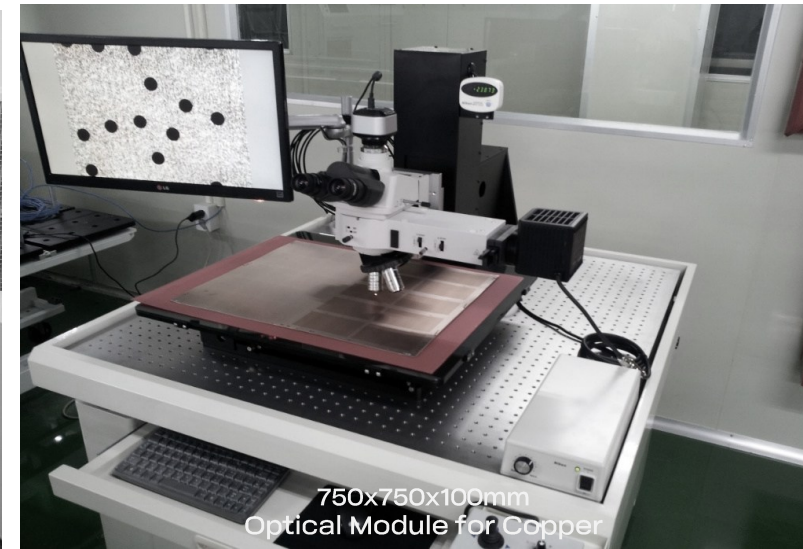
750x750x100mm
Optical Module for Metal Mesh



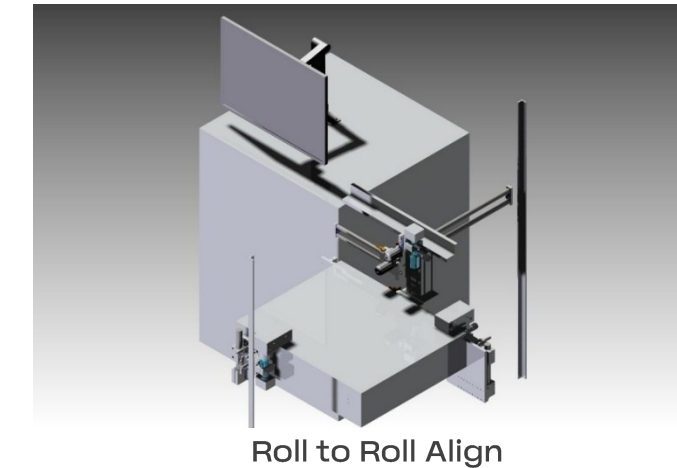
800x600x100mm
Interferometer(WSI) for LCD



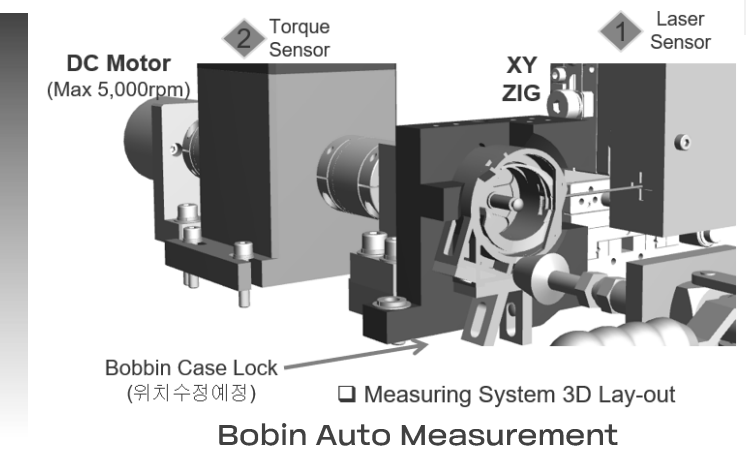
600x600x100mm
Optical Module for ITO



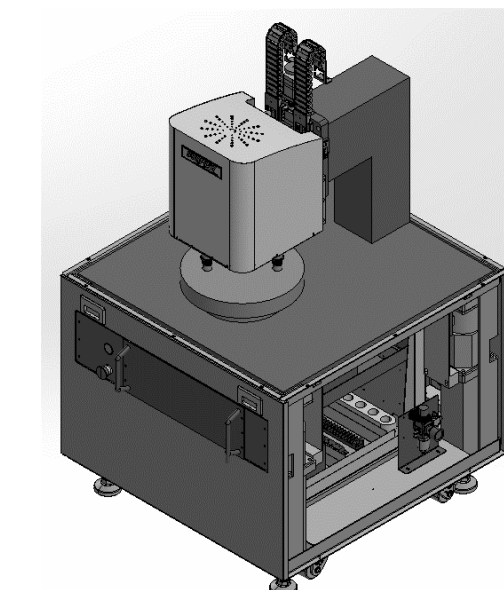
750x750x100mm
Optical Module for Copper



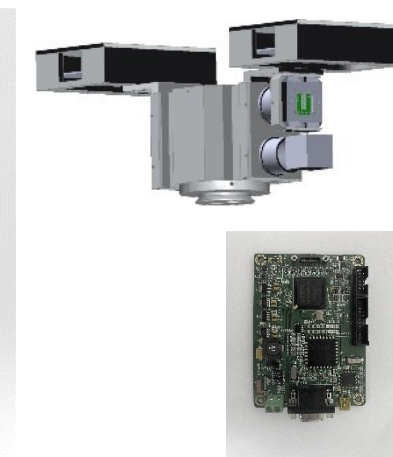
Roll to Roll Align



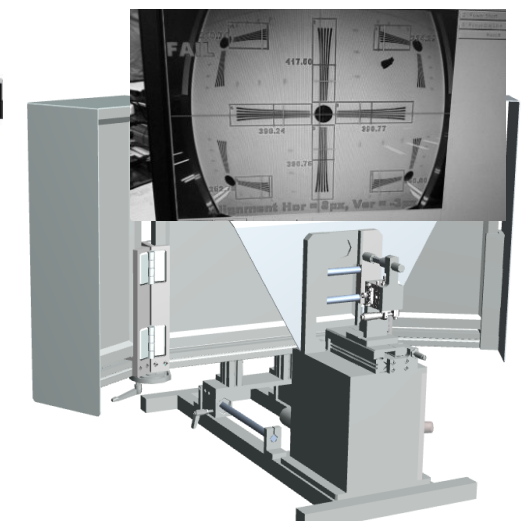
Bobbin Auto Measurement



Wafer Warpage Check(SK)



VR Module & PCB
for Microscope



Mobile Len Align

WE'D LOVE TO HEAR FROM YOU



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