



# Company Introduction

Park Systems

IR Team

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(과실 및 기타의 경우 포함)

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주식 매입과 관련된 모든 투자 결정은 오직 투자자의 합리적인 판단에 의하여 이루어져야만 합니다.

# Introduction



- 파크시스템스는 첨단 나노기술 분야의 선두주자로서, 연구와 산업이 전례 없는 정밀도와 혁신적인 솔루션을 제공합니다.
- 당사의 최첨단 원자현미경(AFM) 기술은 반도체, 바이오 기술, 2차 전지 개발 등 광범위한 분야에서 혁신을 가능하게 하며, 지속적으로 정밀도와 성능에서 새로운 기준을 세워가고 있습니다

# Customers

- 파크시스템스의 원자현미경(AFM)은 세계 유수의 대학, 정부 지원 연구기관, 기업 연구센터, 주요 반도체 및 기타 산업 관련 기업들에 의해 나노 수준의 측정을 위해 폭넓게 사용되고 있습니다.



# Global Channels

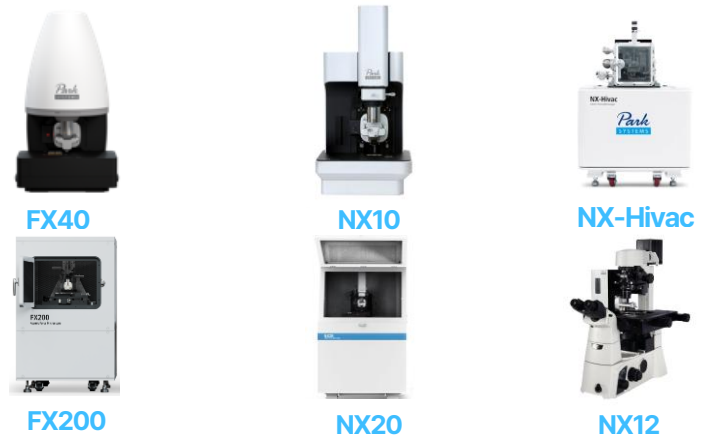
- 파크시스템스는 미주, 유럽, 아시아, 오세아니아 전역에 걸쳐 지사와 파트너를 보유한 탄탄한 글로벌 네트워크를 자랑합니다.



# Key Products and Services

- 파크시스템스는 첨단 AFM 장비를 공급하고 있으며, Accurion, Lyncée Tec과 같은 기업의 전략적 인수를 통해 계측 기술 역량을 지속적으로 강화하고 있습니다.

- Material Science & Chemistry



FX200

NX20

NX12

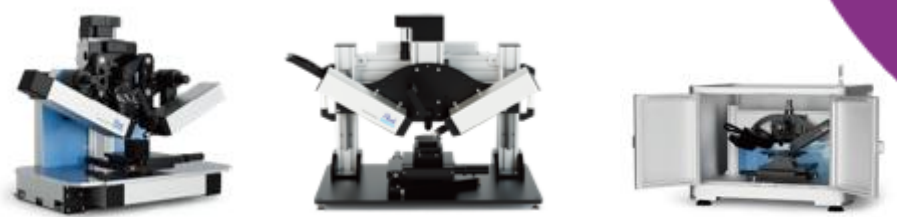
- Semiconductor & Display



NX-Hybrid WLI

NX-TSH

- Thin Film Characterization



Accurion EP4

Accurion SIMON

Accurion RSE

- Holography-based microscope



Lyncée Tec R2100

Lyncée Tec T1000



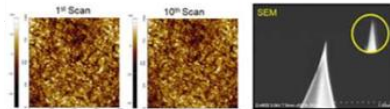
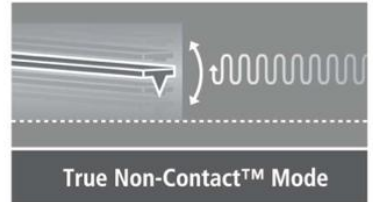
# Innovative technology

- 팁과 시료 표면 간의 상호작용(Atomic Force)을 이용해 표면 형상을 모니터링
- 전기적, 기계적, 자기적, 열적, 형상 특성 측정
- 연구와 산업 모두에 최적화된 진정한 비접촉 모드



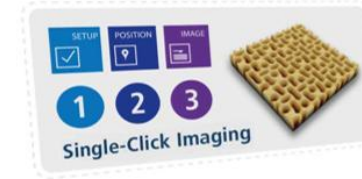
## Measurement Accuracy

Park AFM Scanners  
Decoupled XY & Z Scanners



## Best Resolution

Park AFM Mode  
True Non-Contact™ Mode



## User Convenience

Park Operating Software  
SmartScan™, SmartAnalysis™, XEA

Source : ParkSystems Youtube( <https://www.youtube.com/watch?v=wiFCYFrXkek> )

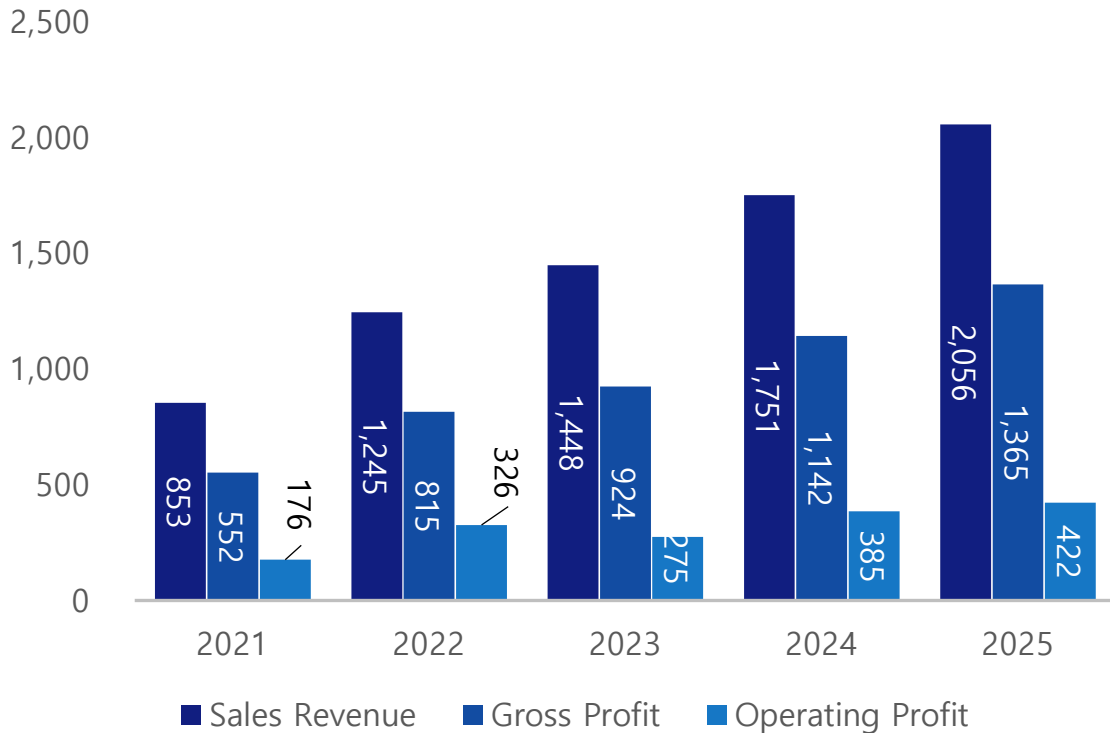


# Sales and Orders for the Past 5 Years

- 파크시스템스는 매년 20~30%의 꾸준한 성장을 이어가고 있으며, 산업용 장비 수요 증가에 따라 매출도 지속적으로 상승하고 있습니다.

## SALES

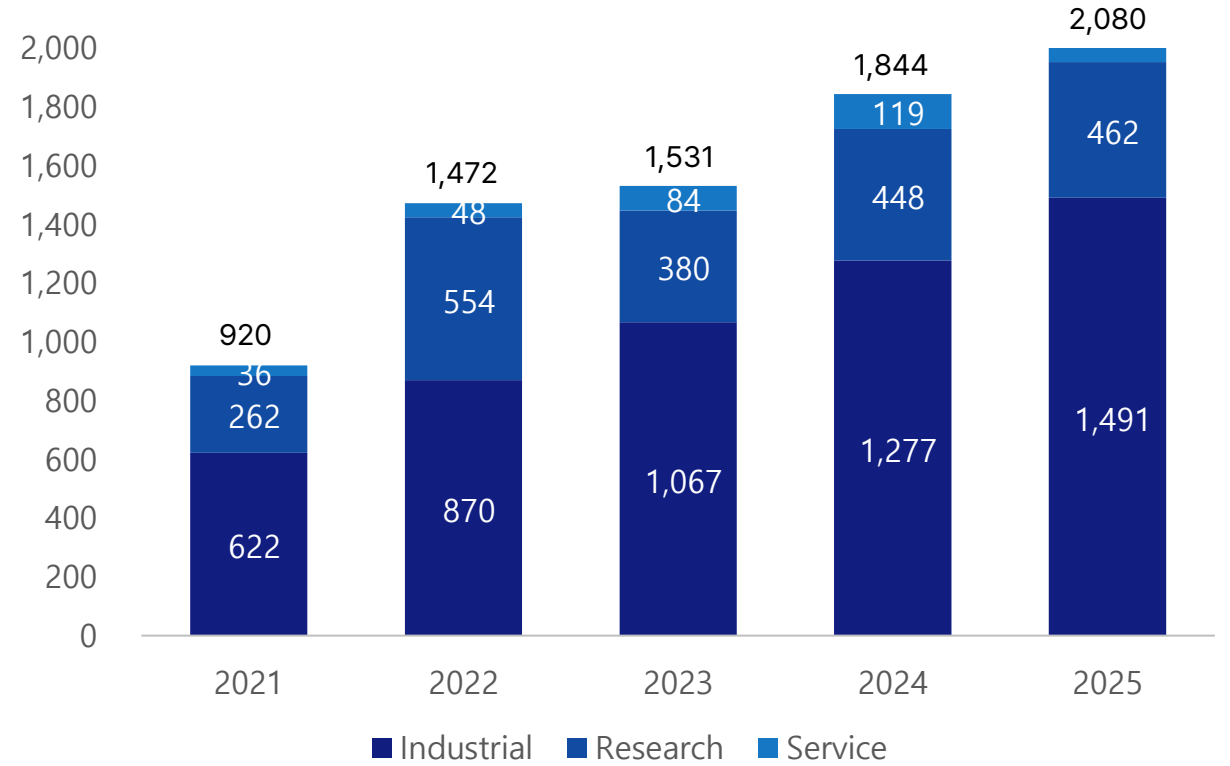
Unit : 100M KRW



Note : K-IFRS consolidated financial statement basis

## ORDERS

Unit : 100M KRW

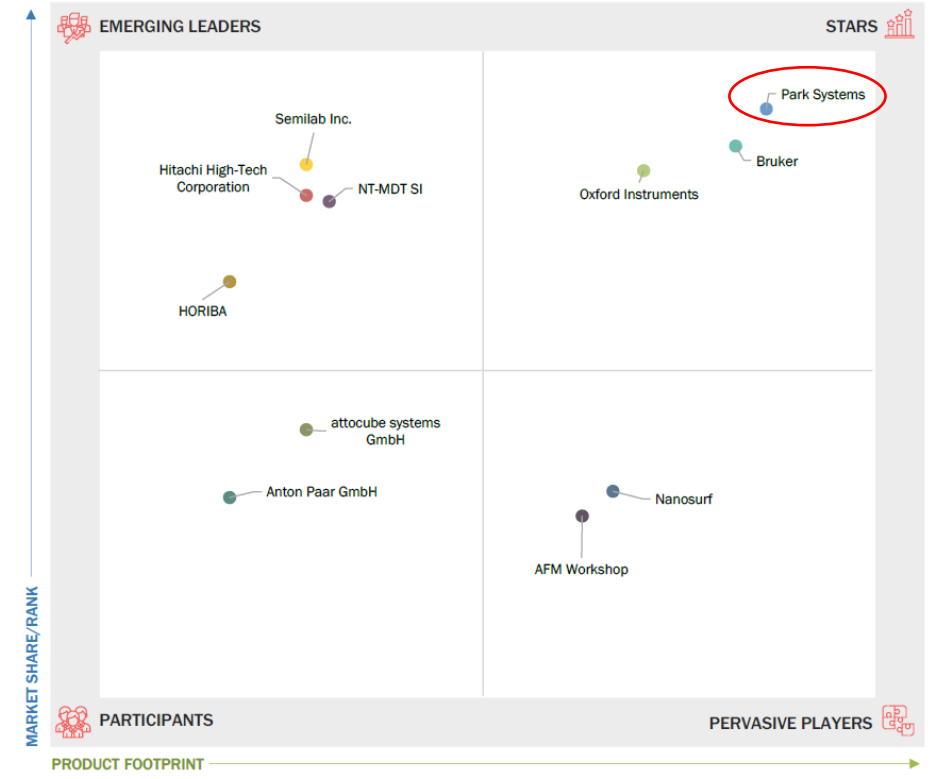
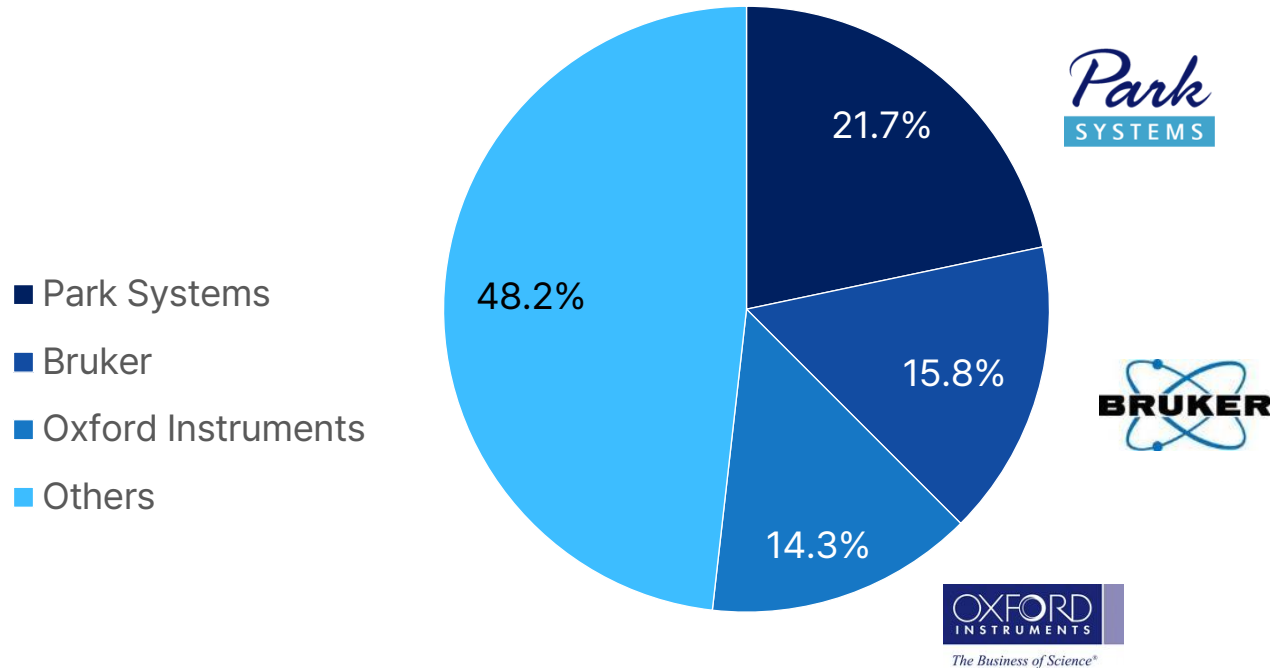


Note : K-IFRS consolidated financial statement basis

# AFM Market

- 파크시스템스는 AFM 시장에서 점유율 1위를 차지하고 있으며, 산업용 장비 수요 증가에 힘입어 AFM 시장은 지속적인 성장이 예상됩니다.

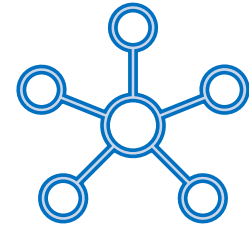
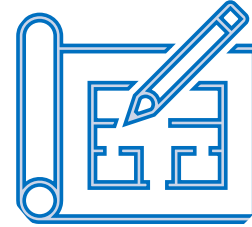
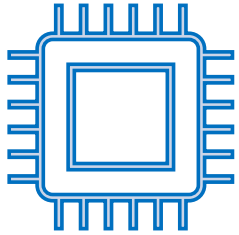
AFM Market Share 2024



Source: Annual Reports, Press Releases, Investor Presentations, Interviews with Experts, and Markets and Markets Analysis

# Market Opportunity

- 반도체 공정의 미세화로 인한 새로운 기회 창출
- 반도체 산업을 넘어 다양한 산업으로의 확장 가능성



Miniaturization and  
Increasing Complexity

Increasing Utilization in  
Advanced Processes

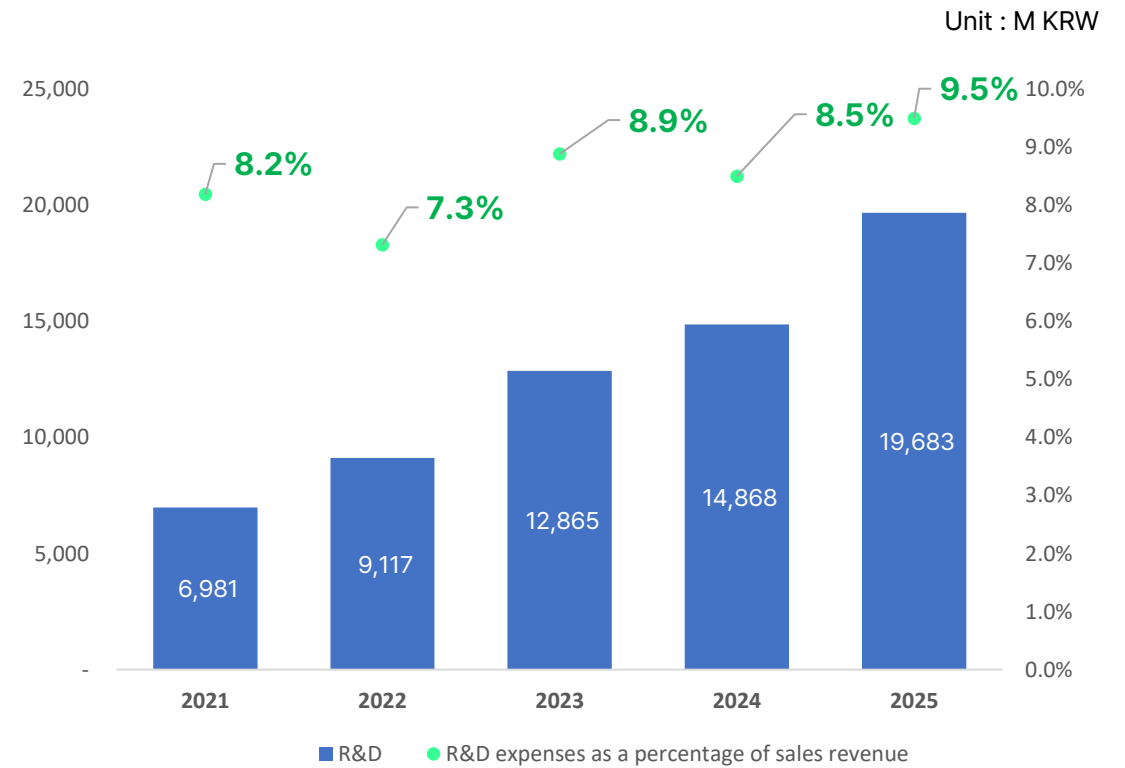
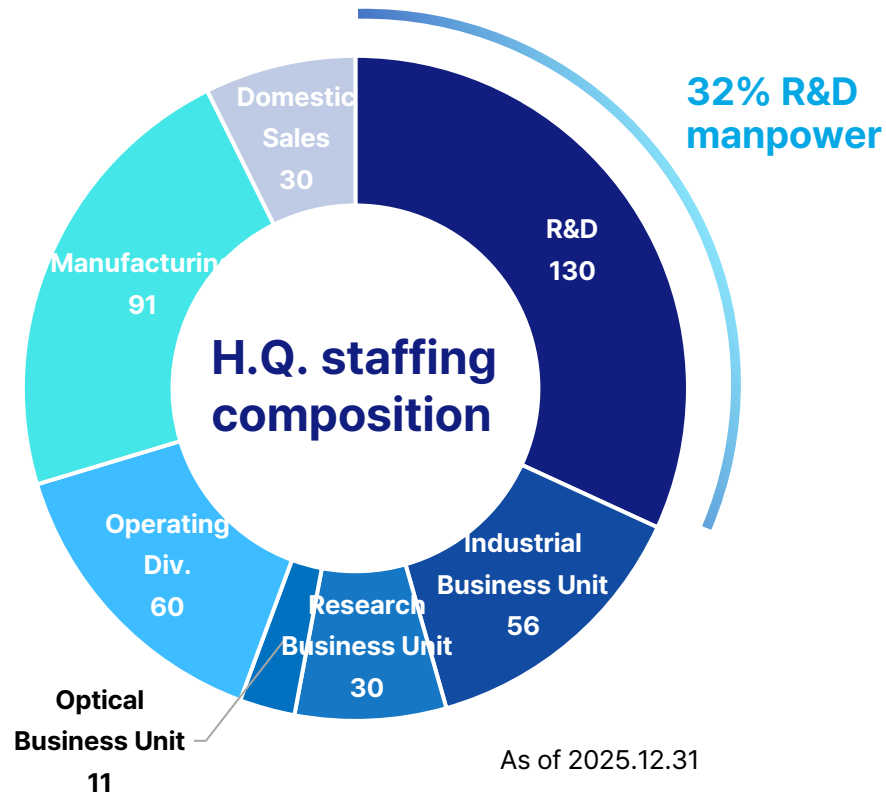
Growing Applications in  
Back-End Processes

Expansion into  
Various industries



# R&D

- 파크시스템스는 나노 단위 계측 분야에서 최고의 연구 개발 역량을 인정받고 있습니다.

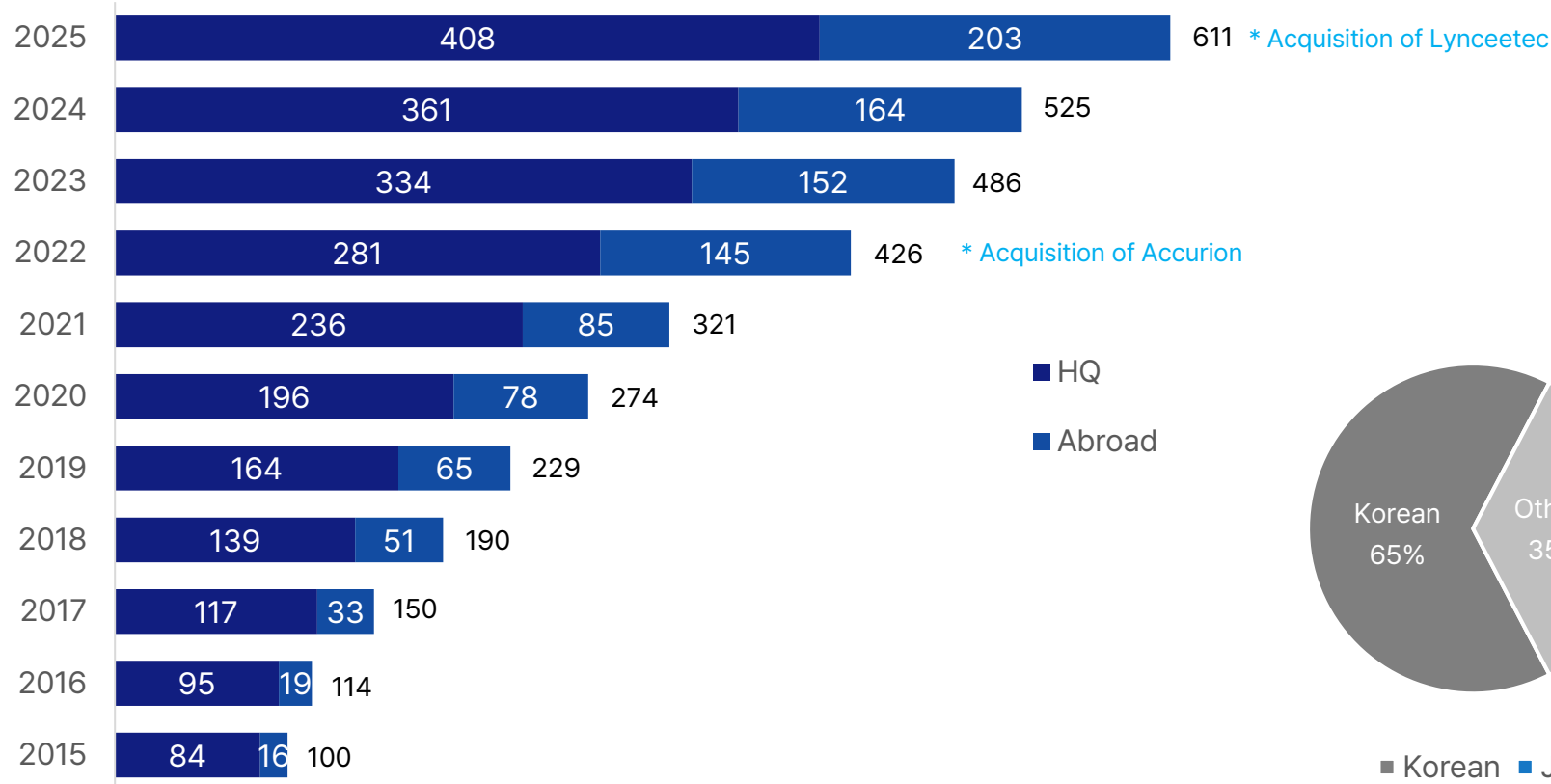


Note : K-IFRS consolidated financial statement basis

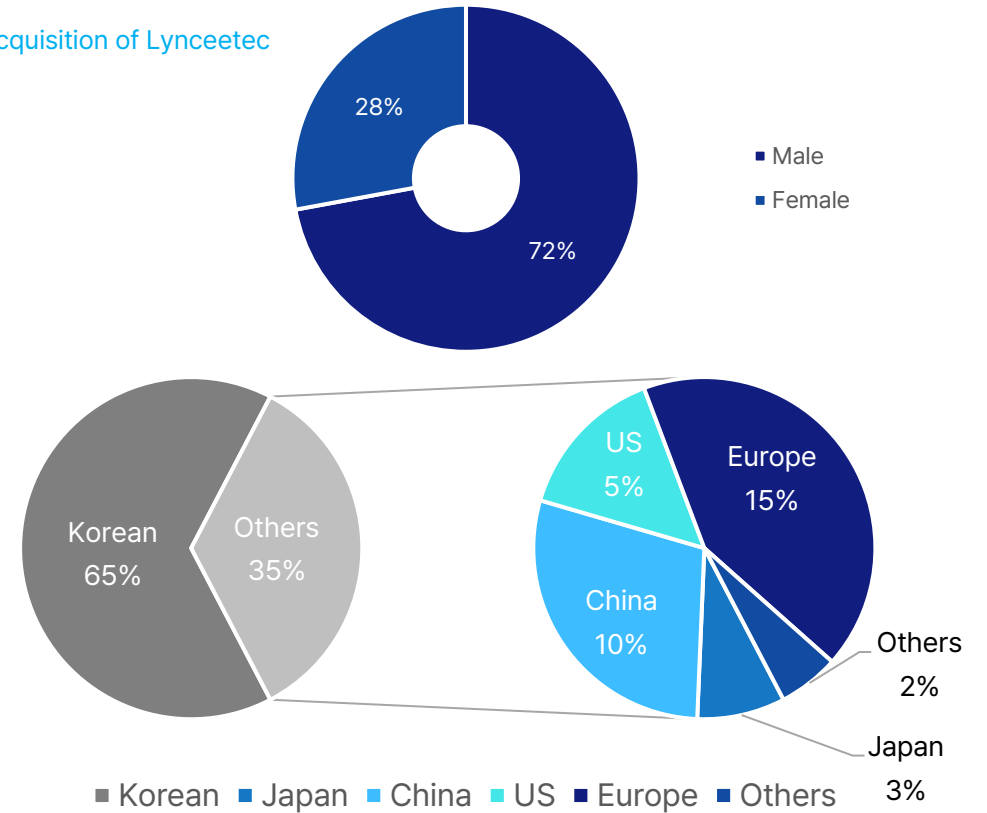
# ESG-HR

- 폭발적인 성장에 힘입어 매년 꾸준히 인력이 증가하고 있습니다.
- 회사는 다양성을 중시하며, 성별과 국적을 아우르는 포용적인 문화를 강조합니다.

Numbers of Employees



Workforce composition.



# ESG-Board of Directors

- 이사회는 의사결정의 투명성을 위해 CEO 1인과 사외이사 6인으로 구성되어 있습니다.



**박상일 대표이사**

- 파크시스템스 주식회사 대표이사 (1997~)
- 제어로봇시스템학회 회장 (2024)
- Park Scientific Instruments 대표이사 (1988~1997)
- AEA 스탠퍼드 경영자과정 MBA (1994)
- 스탠퍼드대학교 응용물리학 박사 (1987)
- 서울대학교 물리학 학사 (1981)

## 임원보상위원회



**정 준 기타비상무이사**

- 파크시스템스 기타비상무이사 (2023~)
- 주식회사 솔리드 대표이사 (1998~)
- KAIST 창업원 겸임 교수 (2020~)
- 한국통신연구개발본부 선임연구원 (1994~1998)
- 스탠퍼드대학교 전기공학 박사 (1993)
- 서울대학교 전기공학 학사 (1986)



**최기영 사외이사**

- 파크시스템스 사외이사 (2025~)
- 서울대학교 전기·정보공학부 명예교수 (2021~)
- 과학기술정보통신부 장관 (2019~2021)
- 서울대학교 전기·정보공학부 교수 (2000~2019)
- 스탠퍼드대학교 전기공학 박사 (1989)
- KAIST 전기전자공학 석사 (1980)
- 서울대학교 전자공학 학사 (1978)



**남태희 기타비상무이사**

- 파크시스템스 기타비상무이사 (2026~)
- Storm Ventures - Managing Director & Co-Founder (2000~)
- Venture Law Group - Partner & Co-Founder (1993~2000)
- Wilson Sonsini Goodrich and Rosati - Partner (1985~1993)
- University of Chicago - JD (1985)
- Havard University - AB, Applied Mathematics (1982)

## 감사위원회



**박기준 사외이사**

- 파크시스템스 사외이사 (2024~)
- 우리회계법인 공인회계사 (2020~)
- 키투에스(주) 대표이사 (2009~2019)
- 안진회계법인 공인회계사 (1988~1997)
- 서울시립대학교 경영학 박사 (2011)
- 서울대학교 경영학 학사 (1989)



**이희국 사외이사**

- 파크시스템스 사외이사 (2025~)
- (주)LG 고문/자문 (2020~2022)
- (주)LG 사장, 그룹기술협의회 의장 (2012~2016)
- LG전자 사장 (2004)
- 스탠퍼드대학교 전자공학 박사 (1980)
- 스탠퍼드대학교 전자공학 석사 (1977)
- 서울대학교 전자공학 학사 (1974)



**조수인 사외이사**

- 파크시스템스 사외이사 (2026~)
- 단국대학교 석좌교수 (2023~)
- 삼성메디슨 대표이사 (2012~2015)
- 삼성디스플레이 OLED사업부장, 사장 (2012)
- 삼성모바일디스플레이 대표이사 (2010~2012)
- 삼성전자 메모리 사업부장, 사장 (2010)
- 서울대학교 전자공학과 학사 (1979)

# ESG-Dividend

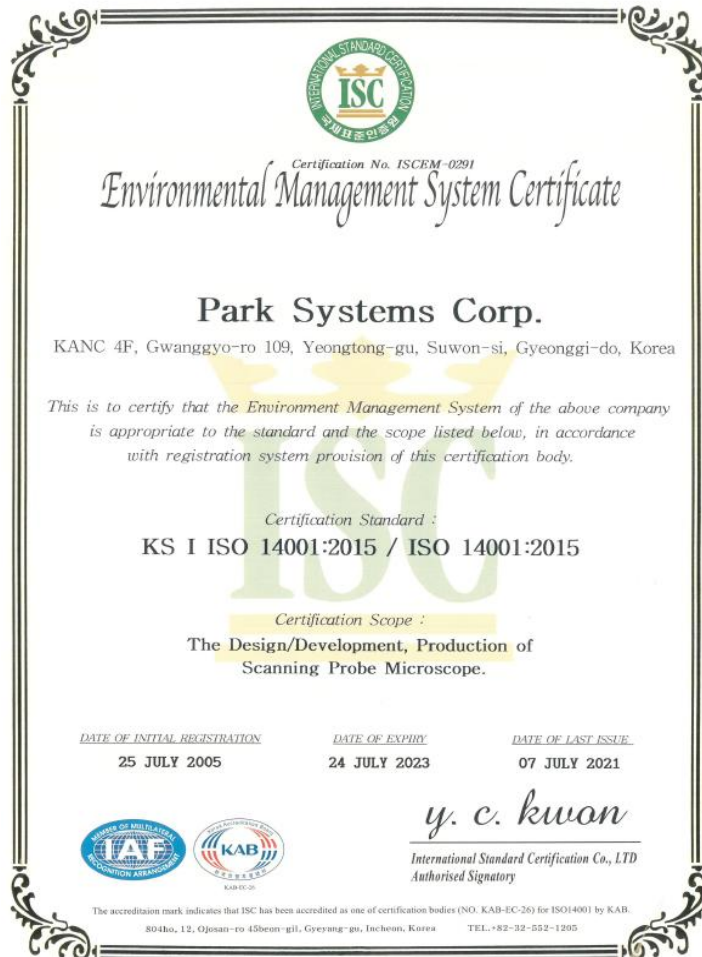
- 주주 가치를 제고하기 위한 배당 정책

- 유기적 성장과 비유기적 성장을 위한 투자에 우선순위를 두고 있습니다.
- 당사는 대내외적인 사업환경 변화에 따른 투자기회 발굴 및 이에 따른 현금 흐름의 적정성, 부채 비율 등을 포함한 재무비율에 대한 영향을 종합적으로 고려하여 투자 확대를 우선 순위로 두고, 자사주 매입 및 배당 등에 대한 순차적 실행을 계획하고 있습니다.
- 매년 배당규모는 별도 손익 기준 잉여현금흐름(FCF)의 10%~50% 내에서 이사회가 정기적 검토 및 결의를 통해 진행할 계획입니다.

	단위	2021	2022	2023	2024	2025
주당이익	KRW	1,508	3,258	3,786	5,614	<b>4,951</b>
주당배당금	KRW	250	400	400	500	<b>500</b>
잉여현금흐름 (A)	M KRW	3,693	17,020	17,080	26,782	<b>9,586</b>
총배당액(B)	M KRW	1,717	2,761	2,768	3,470	<b>3,476</b>
배당성향(B/A)	%	46%	16%	16%	13%	<b>36%</b>

# ESG-Safety & Environment

- 파크시스템스는 환경 및 안전 관련 기준에 대한 인증을 지속적으로 취득하고 있습니다.



# Appendix

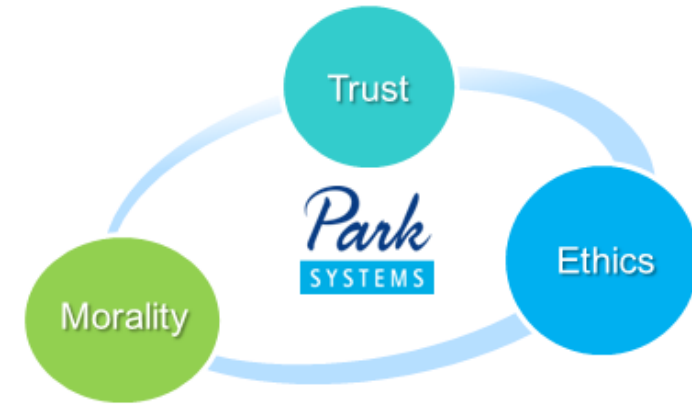
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# Company Overview

## Company Status

회사명	파크시스템스 주식회사
대표이사	박상일
설립일	1997년 4월 7일
자본금	3,498백만원 (2025년 말 기준)
임직원수	611명 (2025년 말 기준, 자회사 등 포함)
업종	정밀기기 제조업
사업분야	원자현미경(Atomic Force Microscope) 사업
사업장	경기도 과천시 과천대로 12길 150
홈페이지	<a href="https://www.parksystems.com">https://www.parksystems.com</a>

## Business Philosophy



- 1 주변 사람들과 후손들로부터 칭찬받는 사람이 된다.
- 2 최대의 가치를 고객에게 제공하고 직원, 주주, 협력회사, 그리고 나아가 우리사회 모두에게 이익이 되는 회사가 된다.
- 3 최대의 과제는 앞선 기술 개발이고, 그 다음은 글로벌 마케팅이다.
- 4 최고의 자산은 신뢰이며 윤리경영, 정도경영은 기본이다.

# Key driver for sustainable growth

- 파크시스템스는 나노기술 분야의 지속적인 혁신을 통해 지속 가능한 성장을 이끌고 있습니다.

## 시장



- 나노기술의 발전과 더불어 지속적으로 성장할 시장 잠재력
- 매우 긴 기술수명주기 (Technology Life Cycle)를 가진 안정적인 시장

## 기술



- 세계 최고의 기술력 모방하기가 매우 어려움
- 국가 핵심기술 유출 방지 대상

## 제품



- 최강의 경쟁력을 가진 제품
- 고부가가치 (60% 이상 gross margin)

## 글로벌 비즈니스



- 자체 브랜드와 판매망으로 글로벌 시장 진출

## 고객



- 세계 유수의 대학교, 연구소, 기업 등에 고르게 분포
- 높은 고객만족도

## 직원



- 열정적이고 충성도 높은 고급인재들

# Management Team



**박상일** 대표이사

- 파크시스템스 주식회사 대표이사 (1997~)
- 제어로봇시스템학회 회장 (2024)
- Park Scientific Instruments 대표이사 (1988~1997)
- AEA 스탠퍼드 경영자과정 MBA (1994)
- 스탠퍼드대학교 응용물리학 박사 (1987)
- 서울대학교 물리학 학사 (1981)



**유영국** 부사장  
미래사업개발부

- 파크시스템스 주식회사 부사장 (2005~)
- Intematix 창립자 및 R&D 부사장 (2000~2004)
- UC버클리 물리학 박사 (2000)
- 시카고대학교 물리학 학사 (1995)



**조연옥** 부사장  
운영관리부문

- 파크시스템스 주식회사 부사장 (2003~)
- 한양대학교 에리카 캠퍼스 경상대학 겸임 교수 (2021~)
- 한아름종합금융 (1998~2000)
- 한화종합금융 (1992~1998)
- KAIST MBA
- 세종대학교 영문학 학사



**조상준** 전무  
연구장비사업부문

- 파크시스템스 주식회사 전무 (2005~)
- 나노기술연구협회 부회장 (2024~)
- 한국표면분석학회 부회장 (2022~)
- ISO/TC201/SC9 SPM 의장 (2017~)
- 아이오와주립대학교 신경과학 박사 (1998)
- 아이오와주립대학교 생물학 학사 (1993)



**이동춘** 전무  
산업장비사업부문

- 파크시스템스 주식회사 전무 (2021~)
- Nanometrics Korea 마케팅 전무이사 (2015~2018)
- KLA-Tencor 검사장비사업부 마케팅 디렉터 (2013~2015)
- 삼성전자 MI기술팀 수석연구원 & 파트장 (2000~2013)
- KAIST 기계공학 박사 (2000)
- 한양대학교 기계공학 학사 (1991)

## R&D 조직

(박상일 대표이사 CTO 겸직)

- System R&D Center
  - Mechatronics
  - Systems Integration
  - Development Planning
  - Development Transfer
- Digital R&D Center
  - SW R&D
  - Control Electronics
- Advanced R&D Center
  - New Technology R&D
  - Prototyping

# Awards & Certification

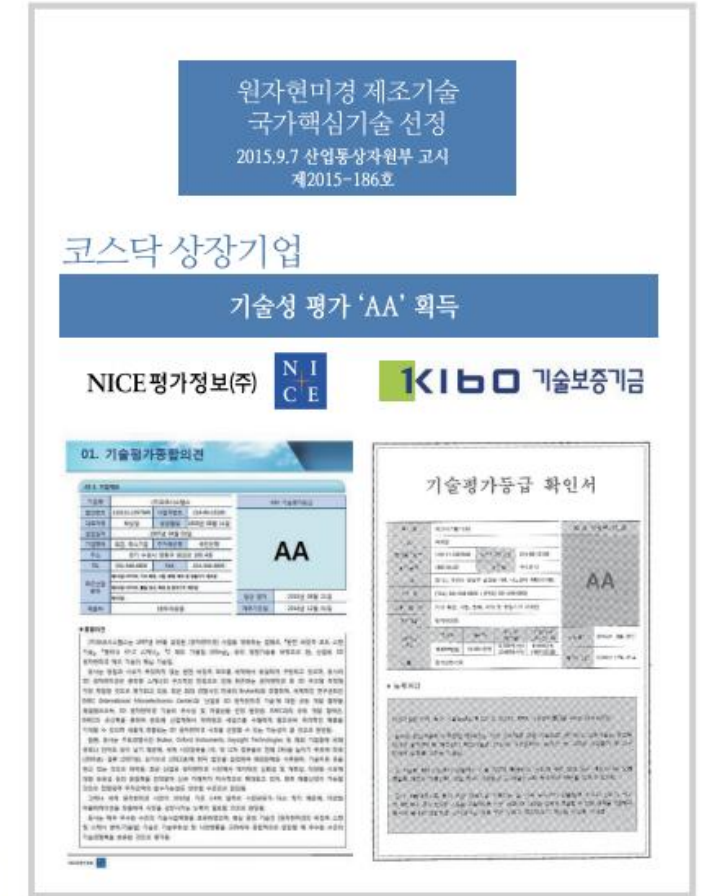
- 파크시스템스는 유수의 상을 수상하고 최고 수준의 기술 인증을 획득하였습니다.



▪ KOSDAQ Grand Prize



▪ 2024 IR Grand Prize



- National Core Technology
- AA in Technology Assessment

# Financial Statements

- 파크시스템스는 연간 20~30%의 성장을 지속적으로 이어가고 있습니다.
- 파크시스템스는 고부가가치 제품을 공급함으로써 높은 수익률을 달성하고 있습니다.

단위: 백만원

B/S	2022	2023	2024	2025	2026 Q1
유동자산	126,307	148,107	191,151	196,653	<b>178,499</b>
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자산 총계	167,049	201,673	274,315	349,922	<b>369,172</b>
유동부채	39,688	49,665	62,938	73,354	<b>79,262</b>
비유동부채	7,898	8,523	23,468	51,449	<b>60,483</b>
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자본금	3,474	3,483	3,494	3,498	<b>3,499</b>
자본잉여금	48,146	49,189	50,814	51,809	<b>52,189</b>
기타자본	(1,692)	(523)	2,229	7,436	<b>9,711</b>
이익잉여금	69,535	91,336	131,372	162,376	<b>164,028</b>
자본 총계	119,463	143,485	187,909	225,119	<b>229,427</b>

Note : K-IFRS consolidated financial statement basis

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영업이익	32,648	27,560	38,530	42,191	<b>2,098</b>
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당기순이익	27,984	24,562	42,803	34,476	<b>5,126</b>

Note : K-IFRS consolidated financial statement basis

# Patents

- 원자현미경(AFM) 분야에서 국내외 특허를 다수 보유하고 있습니다.

Division	Contents	Registration date
Patent	ATOMICFORCEMICROSCOPEEQUIPPEDWITHOPTICALMEASUREMENT DEVICEANDMETHODOFACQUIRINGINFORMATIONONSURFACEOFMEASUREMENTTARGETUSINGTHESAME	2023-04-04
Patent	MEASURING METHOD FOR MEASURING HEAT DISTRIBUTION OF SPECIFIC SPACE USING STHM PROBE, METHOD AND DEVICE FOR DETECTING BEAM SPOT OF LIGHT SOURCE	2023-03-21
Patent	An apparatus and method for recognizing a target position in an AFM	2023-03-08
Patent	A method for measuring the heat distribution in a specific space using a thermal sensing probe, a method for detecting a beam spot of a light source, and a device	2022-12-09
Patent	Devices and methods for recognizing probe types in an AFM	2022-11-04
Patent	A method for measuring the heat distribution in a specific space using a thermal sensing probe, a method for detecting a beam spot of a light source, and a device	2022-06-27
Patent	An AFM equipped with an optical measurement device and a method of obtaining information on the surface to be measured using it	2022-06-13
Patent	How to obtain the properties of the surface of the measurement target using an inclined tip, an AFM for this method to be performed, and a computer program stored in a storage medium to perform this method	2021-12-24
Patent	Chip carrier exchanging device and atomic force microscopy apparatus having same	2021-11-16
Patent	AFM and control methods capable of automatic exchange of chip carriers	2020-11-25



# '26 Q1 Earnings Presentation

Park Systems

IR Team

# Disclaimer

본 자료는 투자자들을 대상으로 실시되는 Presentation에서의 정보 제공을 목적으로 파크시스템스 주식회사 (이하“회사”)에 의해 작성되었으며 이의 반출, 복사 또는 타인에 대한 재배포는 금지됨을 알려드리는 바입니다.

본 Presentation에의 참석은 위와 같은 제한 사항의 준수에 대한 동의로 간주될 것이며 제한 사항에 대한 위반은 관련 '자본시장과 금융투자업에 관한 법률'에 대한 위반에 해당될 수 있음을 유념해주시기 바랍니다.

본 자료에 포함된 “예측정보”는 개별 확인절차를 거치지 않은 정보들입니다. 이는 과거가 아닌 미래의 사건과 관계된 사항으로 회사의 향후 예상되는 경영현황 및 재무실적을 의미하고, 표현상으로는 '예상', '전망', '계획', '기대', '(E)'등과 같은 단어를 포함합니다.

위 “예측정보”는 향후 경영환경의 변화 등에 따라 영향을 받으며, 본질적으로 불확실성을 내포하고 있는 바, 이러한 불확실성으로 인하여 실제 미래 실적은 “예측정보”에 기재되거나 암시된 내용과 중대한 차이가 발생할 수 있습니다.

또한, 향후 전망은 Presentation 실시일 현재를 기준으로 작성된 것이며 현재 시장상황과 회사의 경영방향 등을 고려한 것으로 향후 시장환경의 변화와 전략수정 등에 따라 변경될 수 있으며, 별도의 고지 없이 변경 될 수 있음을 양지하시기 바랍니다.

본 자료의 활용으로 인해 발생하는 손실에 대하여 회사 및 회사의 임원들은 그 어떠한 책임도 부담하지 않음을 알려드립니다.

(과실 및 기타의 경우 포함)

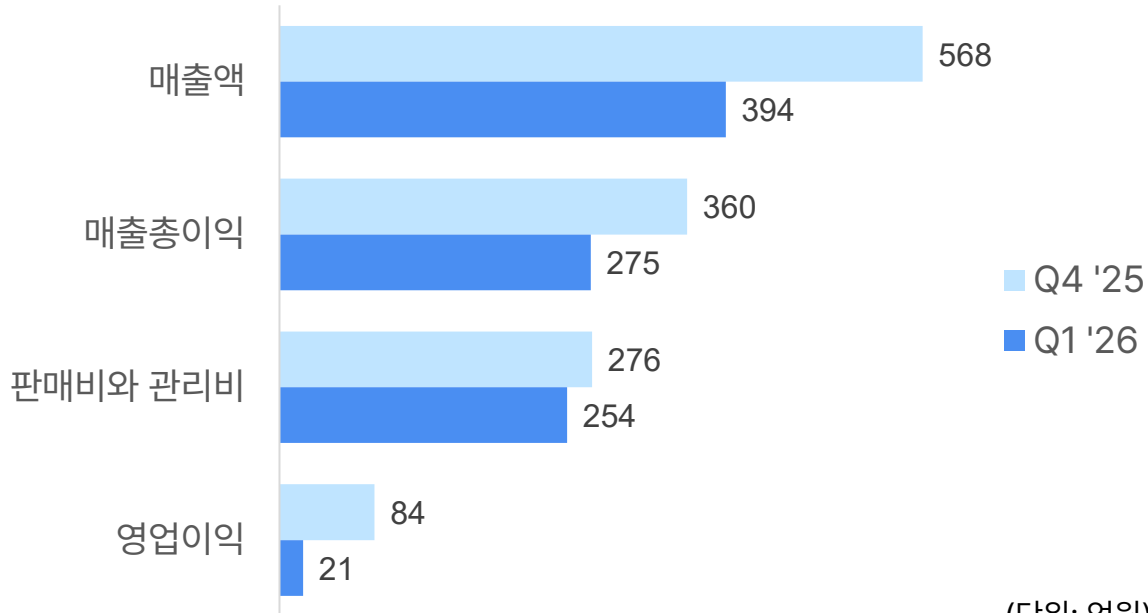
본 문서는 주식의 모집 또는 매출, 매매 및 청약을 위한 권유를 구성하지 아니하며 문서의 그 어느 부분도 관련 계약 및 약정 또는 투자 결정을 위한 기초 또는 근거가 될 수 없음을 알려드립니다.

주식 매입과 관련된 모든 투자 결정은 오직 투자자의 합리적인 판단에 의하여 이루어져야만 합니다.

# Q1 '26 Performance

QoQ

(단위: 억원)



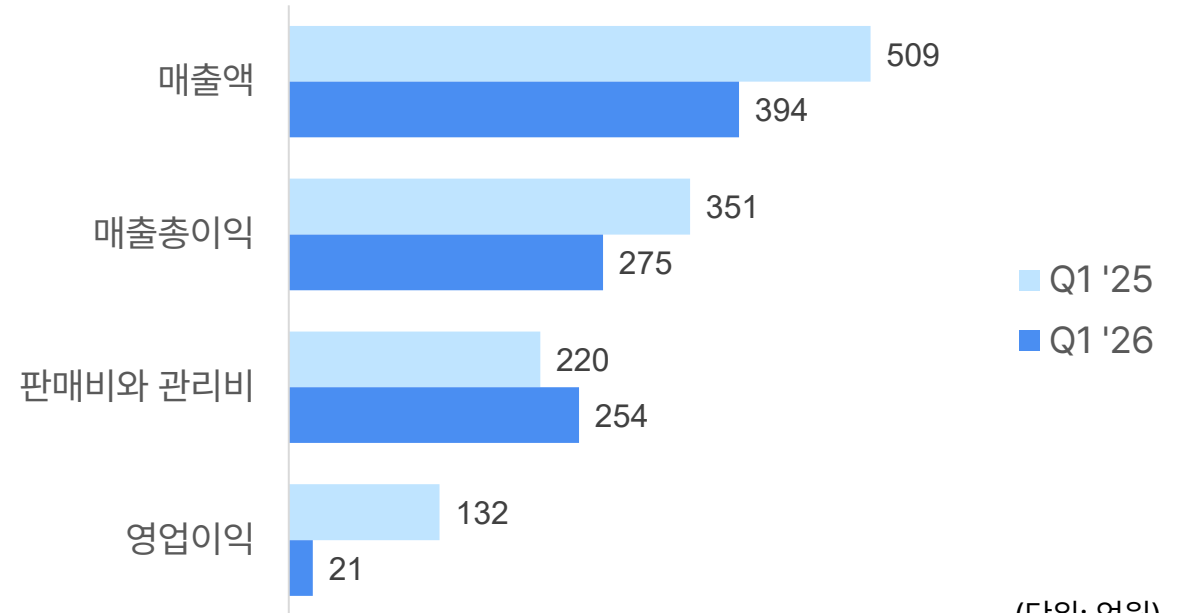
(단위: 억원)

	매출액	매출총이익	판매비	영업이익
Q4 '25	568	360	276	84
Q1 '26	394	275	254	21
QoQ(%)	(31%)	(24%)	(8%)	(75%)

Note : K-IFRS consolidated financial statement basis

YoY

(단위: 억원)



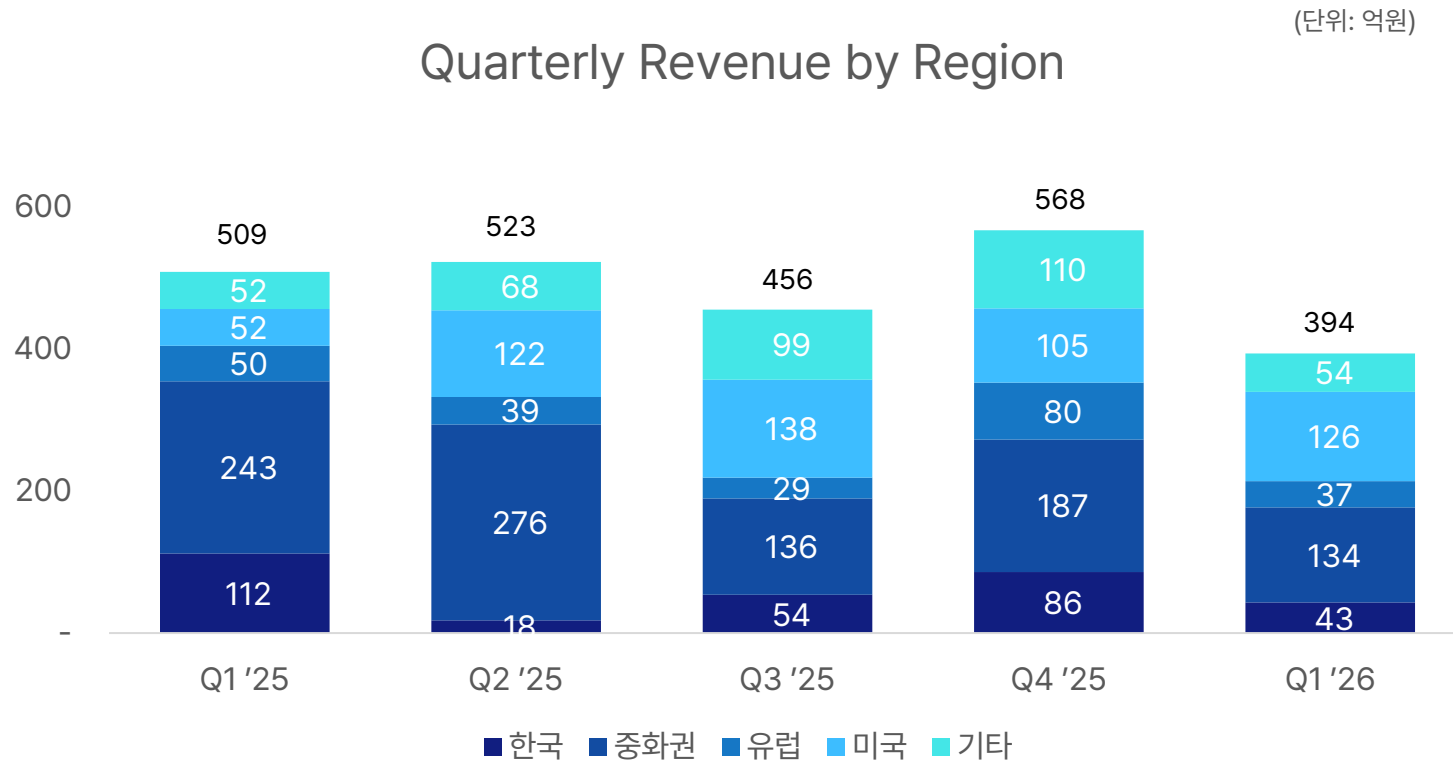
(단위: 억원)

	매출액	매출총이익	판매비	영업이익
Q1 '25	509	351	220	132
Q1 '26	394	275	254	21
YoY(%)	(23%)	(22%)	16%	(84%)

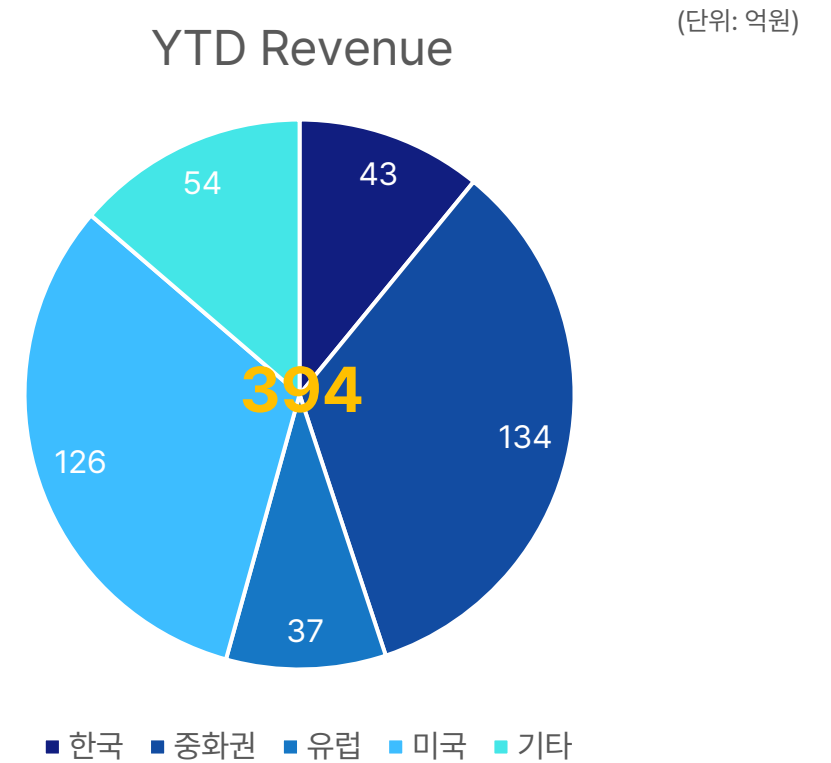
Note : K-IFRS consolidated financial statement basis

# Q1 '26 Revenue by Region

- 연간 누적 매출 분포: 394억원
  - 한국 11%, 중화권 34%, 미국 32%



Note : K-IFRS consolidated financial statement basis

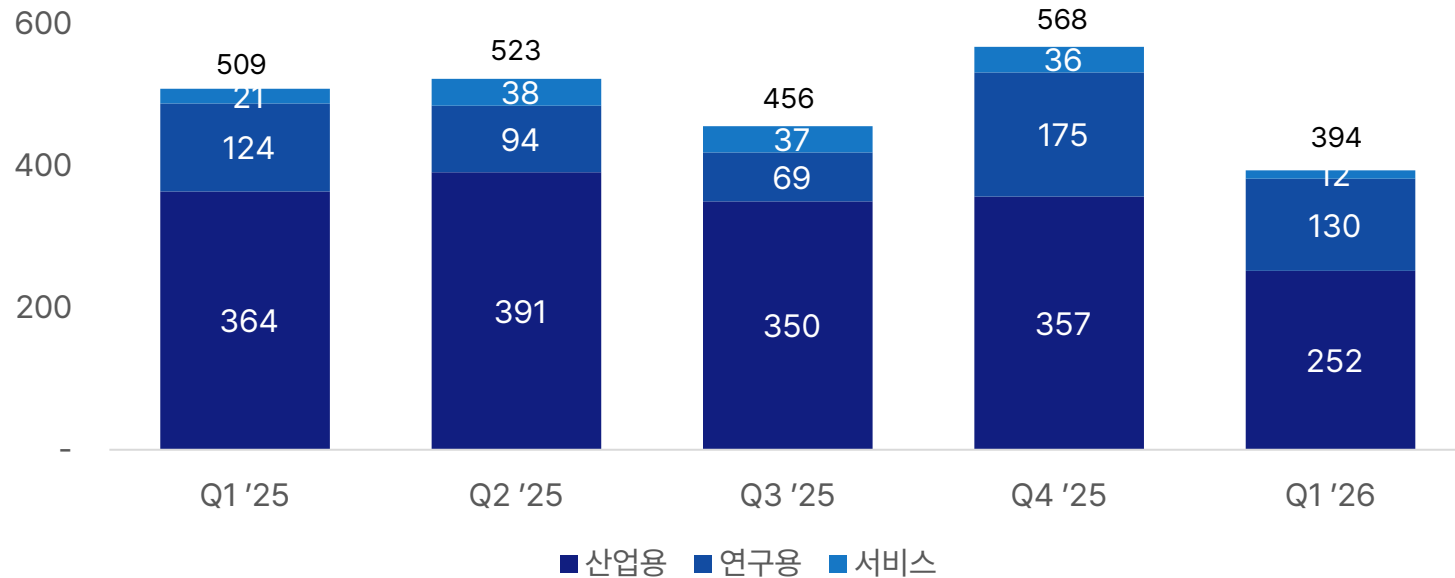


Note : K-IFRS consolidated financial statement basis

# Q1 '26 Revenue by Product

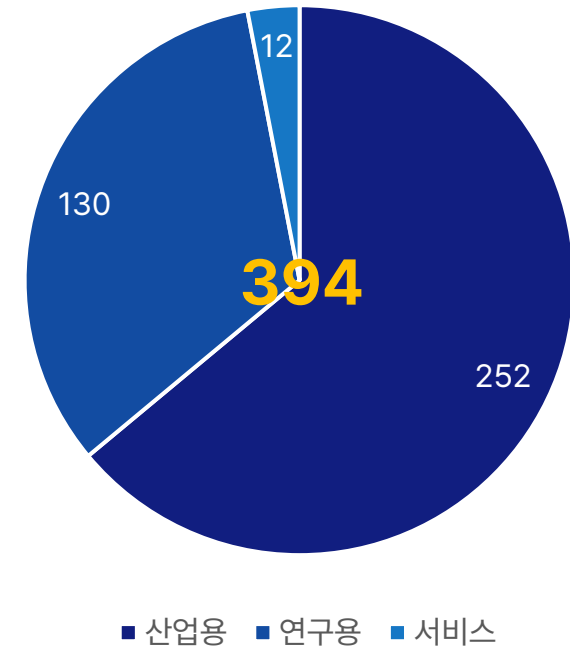
- 연간 누적 매출 분포: 394억원
  - 산업용 장비 64%, 연구용 장비 33%, 서비스 3%

Quarterly Revenue by Product (단위: 억원)



Note : K-IFRS consolidated financial statement basis

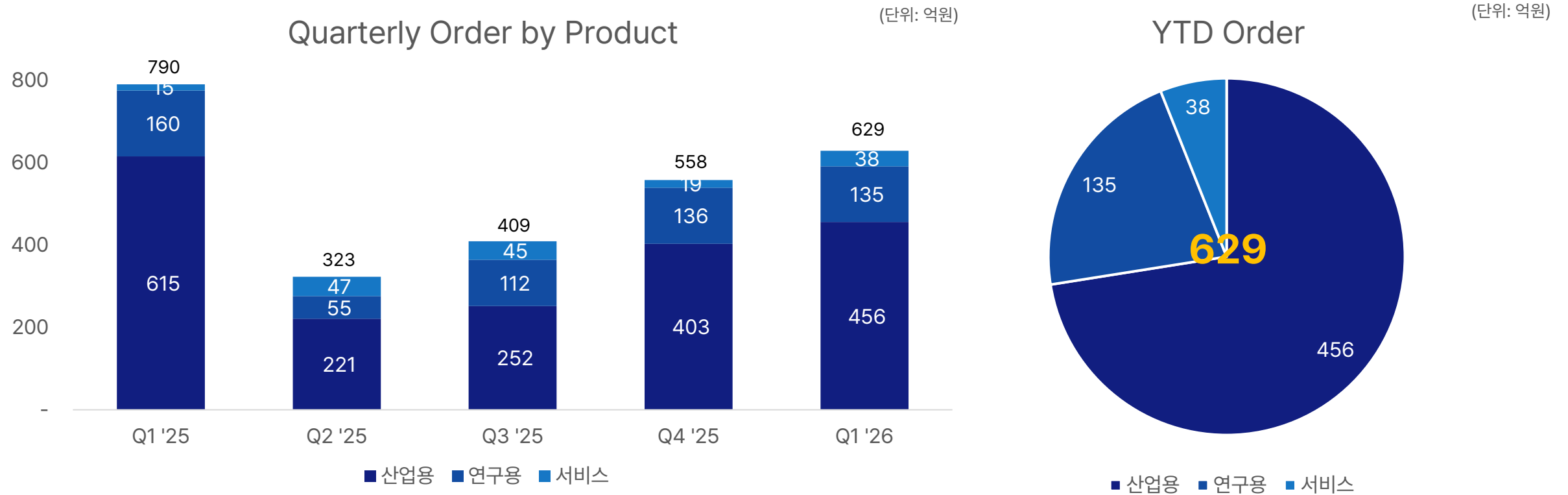
YTD Revenue (단위: 억원)



Note : K-IFRS consolidated financial statement basis

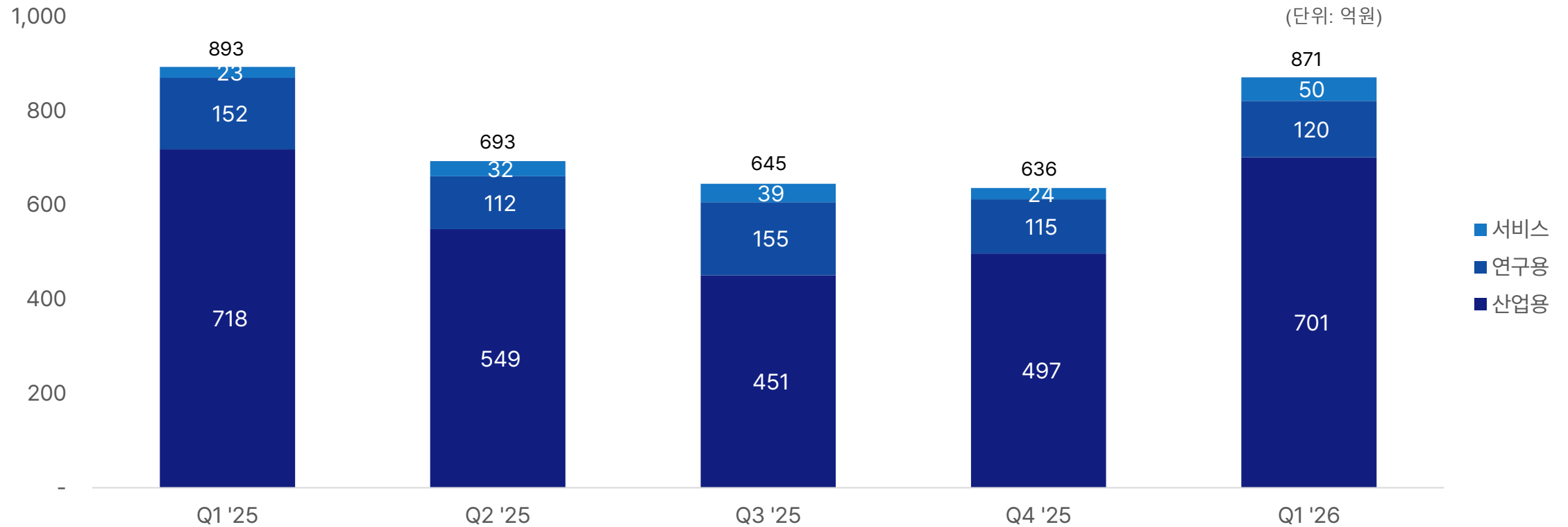
# Q1 '26 POs by Product

- 연간 누적 수주 분포 : 629억원
  - 산업용 장비 73%, 연구용 장비 21%, 서비스 6%



# Q1 '26 Order Backlog by Product

- 수주 잔고: 871억원
  - 산업용 장비 80%, 연구용 장비 14%, 서비스 6%
  - 보고서 제출일(5.14) 기준 수주잔고: 978억원



# Appendix

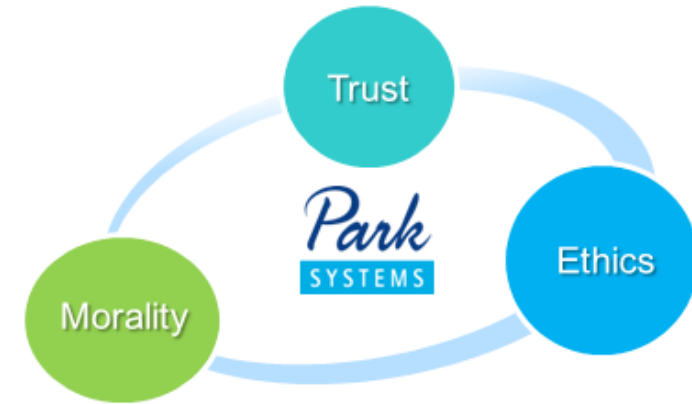
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# Company Overview

## Company Status

회사명	파크시스템스 주식회사
대표이사	박상일
설립일	1997년 4월 7일
자본금	3,498백만원 (2025년 말 기준)
임직원수	611명 (2025년 말 기준, 자회사 등 포함)
업종	정밀기기 제조업
사업분야	원자현미경(Atomic Force Microscope) 사업
사업장	수원 영통구 광고로 109 한국나노기술원 4층
홈페이지	<a href="https://www.parksystems.com">https://www.parksystems.com</a>

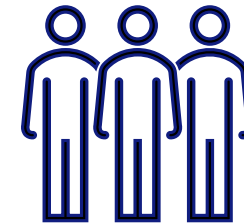
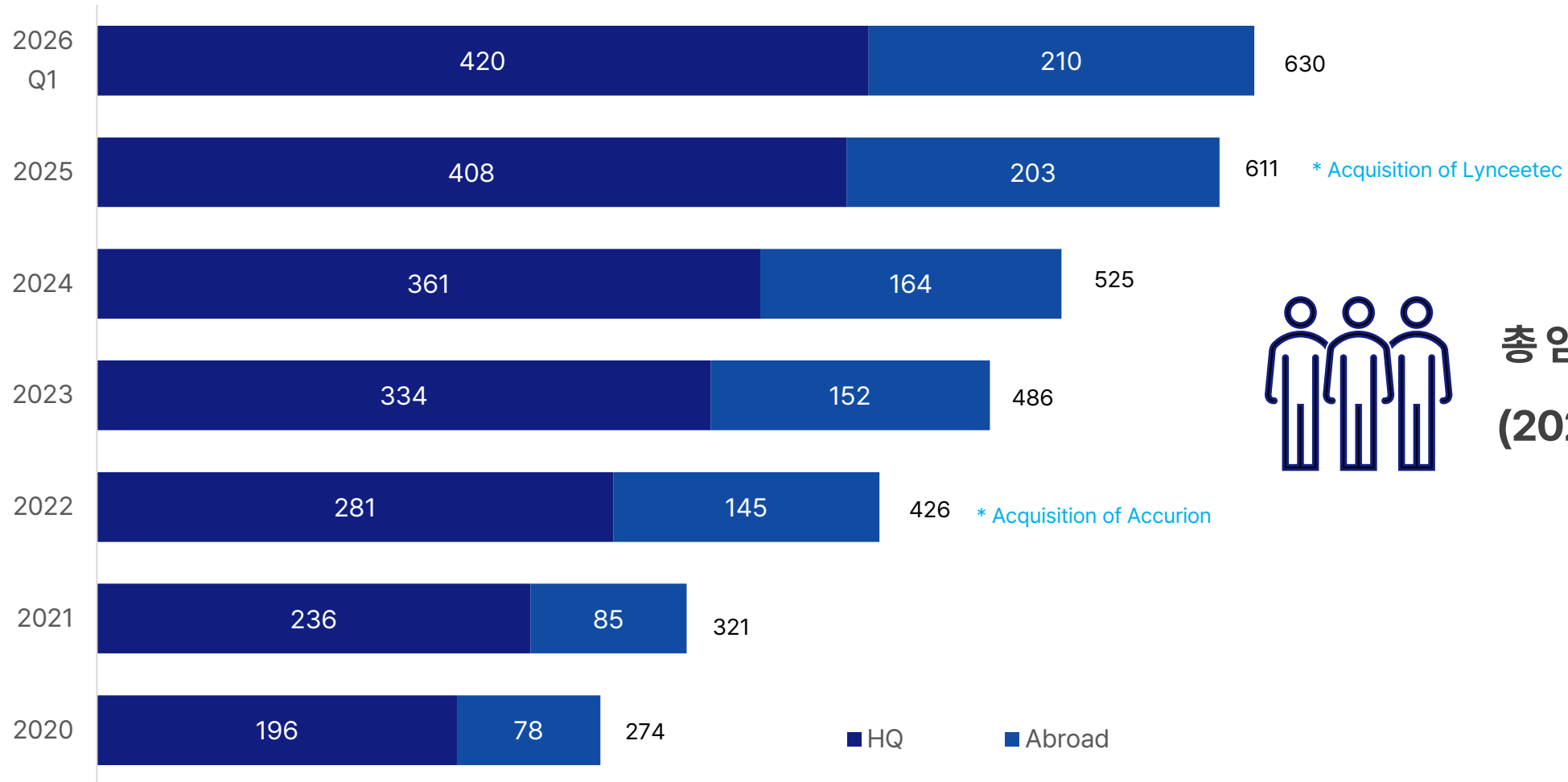
## Business Philosophy



- 1 주변 사람들과 후손들로부터 칭찬받는 사람이 된다.
- 2 최대의 가치를 고객에게 제공하고 직원, 주주, 협력회사, 그리고 나아가 우리사회 모두에게 이익이 되는 회사가 된다.
- 3 최대의 과제는 앞선 기술 개발이고, 그 다음은 글로벌 마케팅이다.
- 4 최고의 자산은 신뢰이며 윤리경영, 정도경영은 기본이다.

# HR

## Numbers of Employees



**총 임직원 수 : 630명**  
**(2026년 1분기 기준)**

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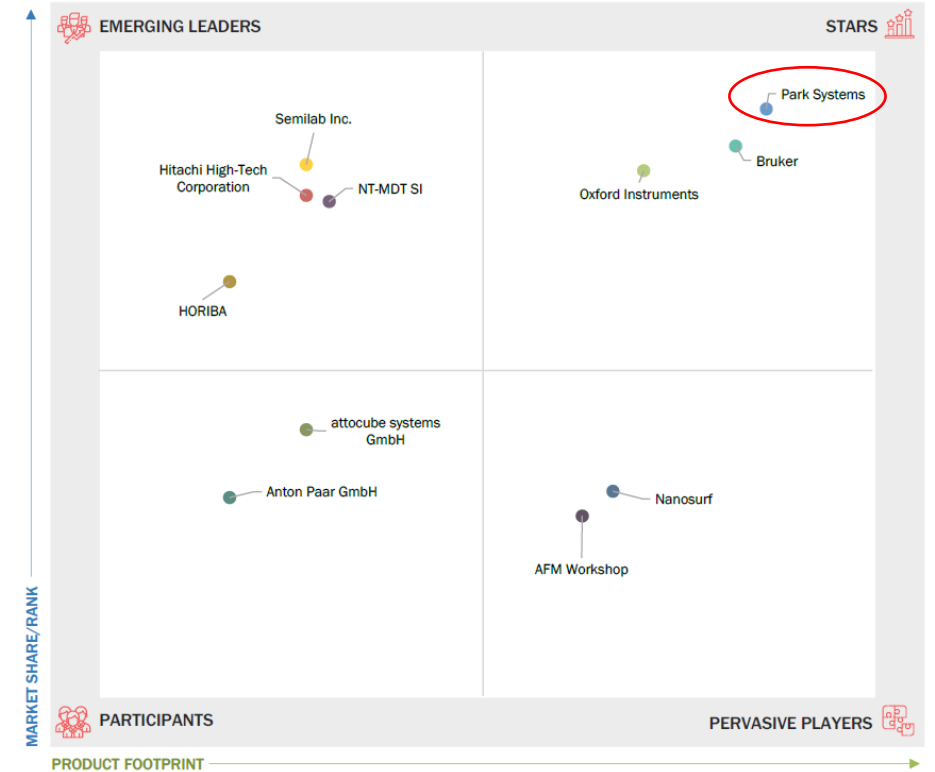
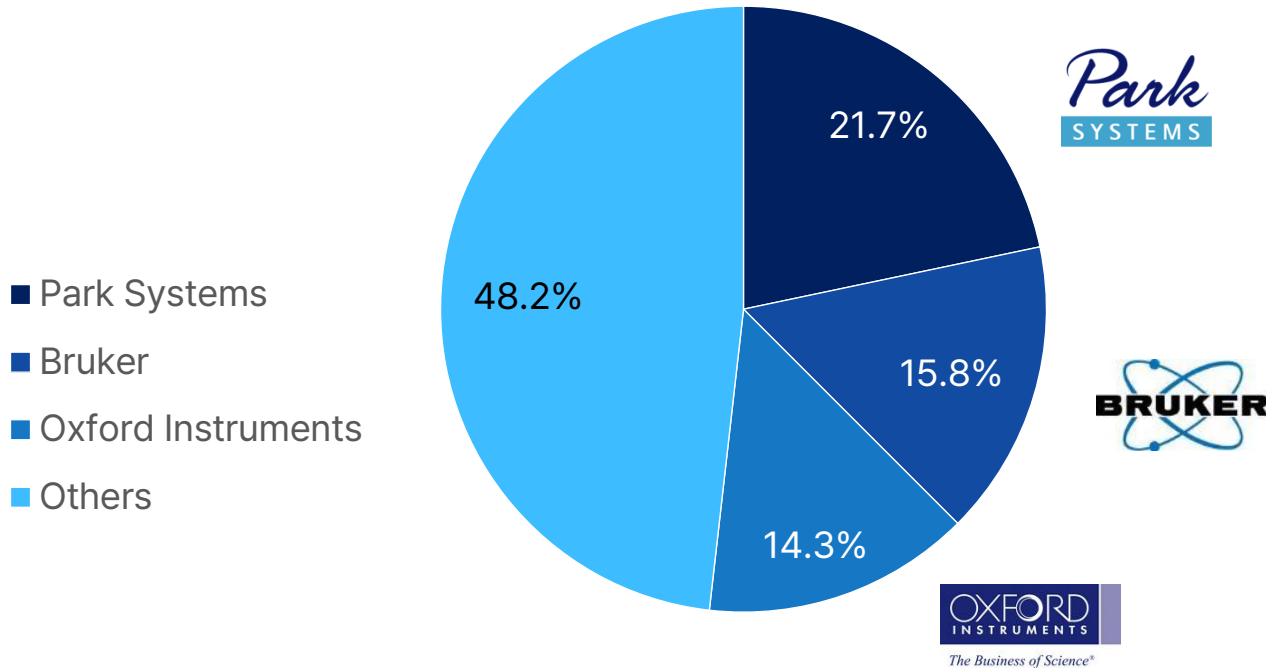
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Note : K-IFRS consolidated financial statement basis

# AFM Market

- 파크시스템스는 AFM 시장에서 점유율 1위를 차지하고 있으며, 산업용 장비 수요 증가에 힘입어 AFM 시장은 지속적인 성장이 예상됩니다.

AFM Market Share 2024



Source: Annual Reports, Press Releases, Investor Presentations, Interviews with Experts, and Markets and Markets Analysis

# 2026 Global Summit, HQ (Feb. 23~24)



# 과천 사옥 완공

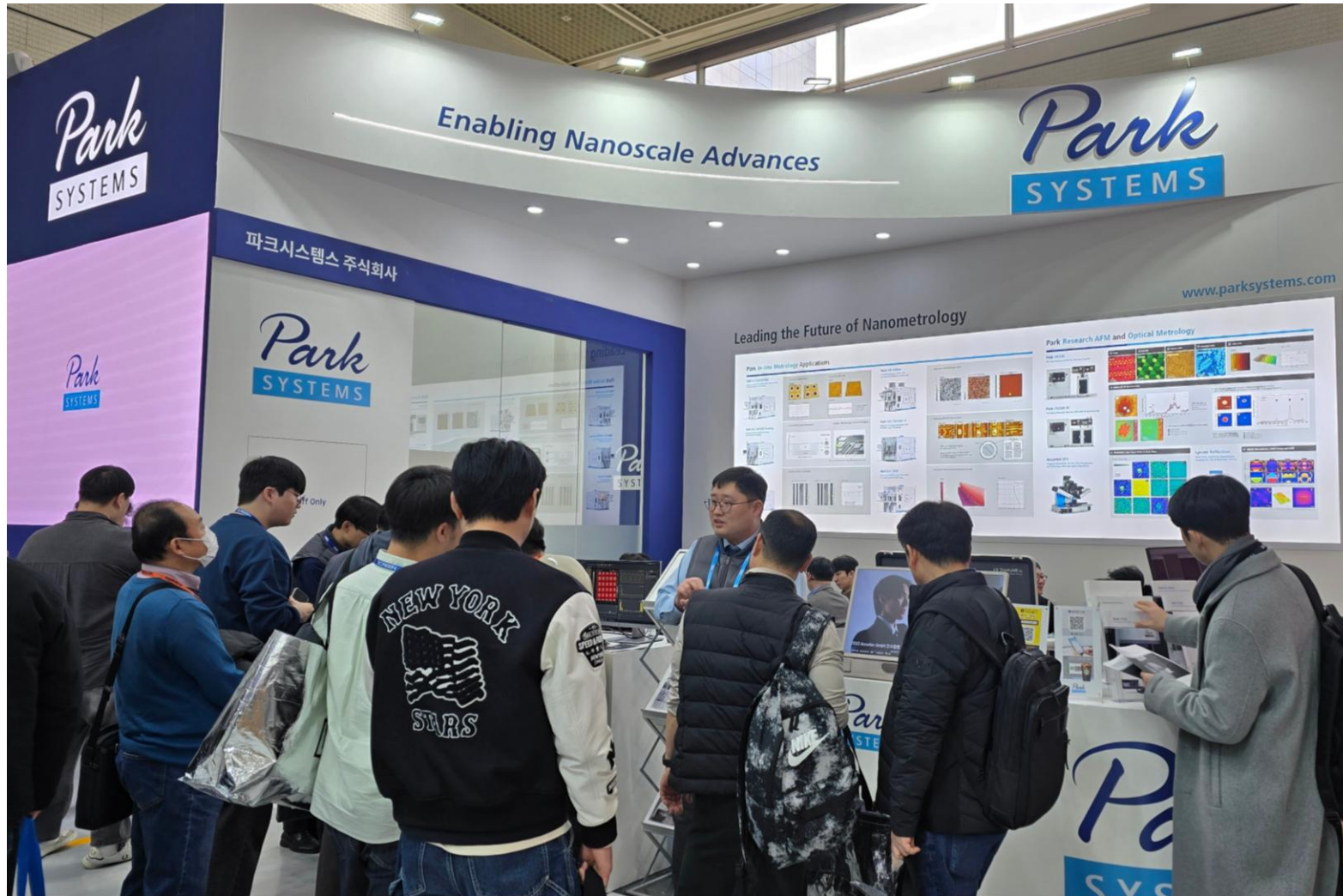
- 2026. 2. 25 준공 및 사용 승인
- 2026. 3. 28 과천 사옥 입주
  - 본사 이전 (약 320명)
  - 생산은 기존 수원 사업장 (약 100명)



# 창립 29주년 기념식 - 과천사옥 2층 그랜드 홀 (Apr. 7)



# [Marketing] SEMICON Korea, COEX (Feb. 11~13)



# [Marketing] SEMICON China 2026 (Mar. 25~27)



# [Products] Webinar- ISE

- Webinar Registration Page

**Solving Thin-Film Uniformity Challenges on Curved Surfaces with Imaging Spectroscopic Ellipsometry**

ISE Webinar Series | 2026  
Thu, Apr 30, 2026, 11:00 AM - 12:30 PM Asia/Seoul

**REGISTER NOW**

Curved-surface thin-film coatings present unique inspection and failure-analysis challenges. Local thickness variations can lead to latent performance degradation, yet these variations are often difficult to detect using conventional planar metrology techniques.

In this webinar, we introduce Imaging Spectroscopic Ellipsometry (ISE) as a failure-analysis-oriented metrology solution for characterizing thin-film coatings on curved structures. Through case studies on microlens arrays with varying radii of curvature, we demonstrate how ISE enables spatial mapping of coating thickness and reveals gradients that are inaccessible to conventional ellipsometry.

Join us to learn how ISE supports non-destructive inspection, advanced failure analysis, and process monitoring for next-generation curved optical and semiconductor structures.

**Dr. Jake Kim**  
Lead of Technical Support Team,  
Optical Equipment Division,  
Park Systems Headquarters

Dr. Kim received Ph.D. degree in Materials Science and Engineering from Nanyang Technological University, Singapore. He joined Tokyo Institute of Technology International Research Opportunities Program (TIROP) in 2014 and was engaged in nano-scale chemical composition analysis using scanning probe microscopy (SPM). From December 2017, he started to work in Park Systems as the manager of application technology center. He is specialized in the enhancement of nano-mechanical measurement performance for Atomic Force Microscopy (AFM) building

- Webinar Promotional Activities

[Invitation  
Email Campaign]

[SNS]

**Solving Thin-Film Uniformity Challenges on Curved Surfaces with Imaging Spectroscopic Ellipsometry**

Dr. Jake Kim | Lead of Technical Support Team, Park Systems Headquarters

**LIVE** on April 30th, 2026 | 11AM KST

**Solving Thin-Film Uniformity Challenges on Curved Surfaces with Imaging Spectroscopic Ellipsometry**

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**LIVE** on April 30th, 2026 | 11AM KST

**Register for Webinar**

**What to Expect**

An Exclusive Invitation for Those Looking to Deepen Their Understanding of Imaging Spectroscopic Ellipsometry

Thin-film uniformity on curved surfaces presents unique challenges — often limiting measurement accuracy and consistency. In this upcoming webinar, we'll explore how imaging spectroscopic ellipsometry enables more precise and reliable analysis, even in complex geometries.

[Learn More >](#)

Take the Opportunity to Explore These Highlights With Us

- Accurate thin-film analysis on curved surfaces
- Enhanced measurement precision with imaging-based ellipsometry
- Clear visualization of thickness and optical properties
- Proven applications across advanced materials and devices

**Register for Webinar >**

Park Imaging Spectroscopic Ellipsometry  
**ACCURION EP4**  
Beyond Conventional Ellipsometry:  
Substrate Measurement of All Structures Within the Field of View

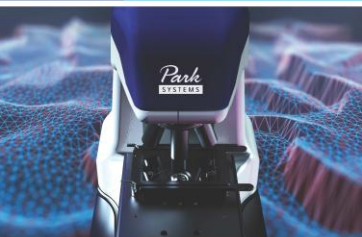

**Park SYSTEMS**

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# [Products] Lyncée Transmission/Reflection Series

## Lyncée Transmission Series

Real-Time Quantitative Imaging for Life and Materials Science

**Park SYSTEMS**

Lyncée Transmission series is powered by Digital Holographic Microscopy (DHM) for quantitative imaging and measurement of transparent and semi-transparent samples with interferometric resolution. Holograms are captured and then digitally reconstructed to extract 3D information, which is subsequently interpreted by dedicated software to provide unique and meaningful insights for applications in both the life and materials science.

For life sciences, DHM enables label-free imaging and provides measurements of morphology and intracellular content (dry mass). These parameters are endogenous markers of cell health status and biological processes, opening applications in cell viability, dynamics monitoring, and 4D cell tracking.

For materials science, DHM provides information on surface topography, measures thickness variations and area/volume properties such as defect and refractive index changes. It also tracks dynamic changes and 3D position over time. It is compatible with our proprietary module, enabling measurement of optical MEMS, displays, and acoustic/hydro devices.

### Key Features

Superior DHM Performance	Address All Experimental Needs
<ul style="list-style-type: none"> <li>Single shot full-field imaging</li> <li>Up to 100 Gbit/s acquisition rate</li> <li>Millisecond time resolution</li> </ul>	<ul style="list-style-type: none"> <li>Multi-wavelength, full wavelength</li> <li>Wide range of optics dedicated to specific applications</li> <li>Fully upgradeable</li> </ul>

Life Sciences	Materials Science
<ul style="list-style-type: none"> <li>Non-invasive live-cell phenotyping</li> <li>Cell morphology imaging over long periods and high temporal resolution</li> <li>Cell Culture Monitoring</li> <li>Cell Health Status, Dynamics, Migration and Proliferation</li> <li>Cell Dynamics</li> <li>Cardiomyocyte Beating and Cell Motion</li> <li>Optical Electrophysiology</li> <li>Neuron, Chemical and Ion Channels</li> <li>4D Tracking</li> <li>Neuron, Spindle Cells, and Hematelia</li> </ul>	<ul style="list-style-type: none"> <li>Surface and in-sample characterization</li> <li>Measurement in an liquid or gas</li> <li>High-resolution measure in transparent samples</li> <li>Metro-Optics</li> <li>Topography, thickness and high refractive index</li> <li>Micro-Fluidics</li> <li>Mixing, Heating, and Fluid Dynamics</li> <li>Display</li> <li>3D Coatings, 2D, and Micro-Optics Devices</li> <li>4D Tracking</li> <li>Parklife Single Measurement (PMS)</li> </ul>



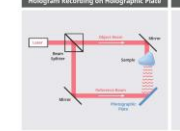
## Lyncée Transmission Series

### DHM Technology

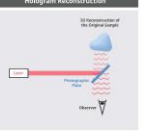
#### Principles of Classical Holography

A sample illuminated by coherent light is illuminated through a lens and the resulting, with a reference beam to generate a hologram, containing information about both the phase and the intensity changes induced by the sample. These changes are recorded onto a specialized holographic plate through a single exposure. By changing the same coherent light through the holographic plate a change representation of the original sample is reconstructed.

#### Hologram Recording on Holographic Plate

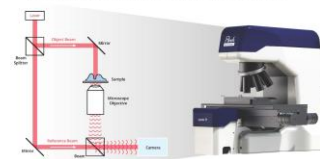


#### Hologram Reconstruction




#### Lyncée Transmission Series: Data Interpretation

For life sciences applications, Lyncée Transmission series provides real-time Quantitative Phase Imaging (QPI) of living cells. Segmentation and/or biological parameters in real-time cell count, velocity, surface area, and growth.




## Lyncée Transmission Series: Workflow

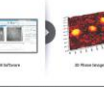
Once acquisition is complete, the entire information about the sample in the recorded hologram is brought out at computer speed. The recorded holograms are then numerically reconstructed in real time. Numerical reconstruction allows to reduce the phase images after the acquisition and to get quantitative information providing insights about the recorded sample.



Hologram



Reconstruction




3D Topography


3D Data Acquisition - Camera Rate → Digital Reconstruction - Live

#### Lyncée Transmission Series: Data Interpretation


For life sciences applications, Lyncée Transmission series provides real-time Quantitative Phase Imaging (QPI) of living cells. Segmentation and/or biological parameters in real-time cell count, velocity, surface area, and growth.



Quantitative Phase Image




Cell Segmentation and/or Biological Parameters

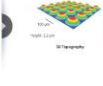


Digital Parameters


For materials science applications, Lyncée Transmission series provides 3D topography and material properties information and their time evolution. This information is then processed to obtain relevant metrics for quality control.



3D Topography



Material Properties



3D Topography

Size: 8.3 cm  
Weight: 1.5 kg  
Sample Chamber

## Lyncée Transmission Series

Adaptable to Your Experimental Needs

### Transmission DHM Module

Lyncée Transmission series Lyncée T1 offers single and dual beam source configurations, optimized for precise and high-resolution imaging. Each module is optimized for the Lyncée T1 for the acquisition, and Lyncée T1 for large bright samples.



### Objectives Lens Sets

Objective lenses supports up to six objectives from 1.25x to 100x magnification (oil and oil immersion), which allow easy switching between wide field-of-view and high-magnification objectives.



### MotORIZED Stage

The optional motorized stage module is available in a variety of different motorized stages without any processing. The motorized stage also allows 400x magnification, to obtain a large field of view in a large range of samples. In the camera it is compatible with standard multi-well compound. Up to 200 available high-current and high-throughput measuring areas.



### Fluorescence Module

When combined with Lyncée Transmission series, the optional Fluorescence module enables simultaneous quantitative phase imaging and fluorescence observation through the same objective lens. This allows direct correlation between data from DHM measurements and fluorescence observations on the high-contrast, covering a large range of angles. The plug and play module supports multiple light sources and cameras, with dedicated lens mounting inside the camera.



### Environmental Chamber

The perfect solution for non-perturbing multi-day live-bio-experiments. It allows full control of temperature, CO<sub>2</sub>, and humidity with the same precision as a full incubator. CO<sub>2</sub> control (for topography and topography) experiments can be added with an optional gas inlet.



## Lyncée Reflection Series

Time-Resolved Advanced Topography Solutions




**Park SYSTEMS**

Lyncée Reflection series are optical interferometers powered by digital holographic microscopy (DHM). Measurements are acquired in real time, with a single acquisition without mechanical scanning.

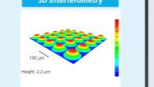
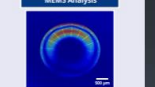
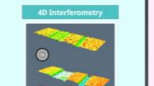

This quasi-instantaneous measurement specificity enables DHM to measure not only the 3D topography of samples, but also to monitor the time response of samples to external stimuli. Characterize samples and optimize processes during manufacturing, characterize very large surfaces and screen them for small defects, and operate in situ at high or low temperatures, in liquid, under vacuum, or in a gas-controlled environment.

DHM are used in research labs and production facilities for semiconductor, MEMS, medical, watch, industry, industrial metrology, polymer, micro-nano-technology, micro-optics, and photonics applications.

### Key Features

Advanced Performance	Address All Experimental Needs
<ul style="list-style-type: none"> <li>Interferometric resolution</li> <li>High speed acquisition and real-time data display</li> <li>Single shot for high-resolution imaging at high speed and in challenging environments</li> </ul>	<ul style="list-style-type: none"> <li>Multi-wavelength, for extended vertical range</li> <li>Stage: up to 300 mm travel range and 6 axis</li> <li>Wide range of optics dedicated to specific applications</li> <li>Fully upgradeable</li> </ul>

Discover Our Standard Configuration for:

<h4>3D Interferometry</h4> 	<h4>MEMS Analysis</h4> 
<h4>4D Interferometry</h4> 	<h4>Industrial Applications</h4> 



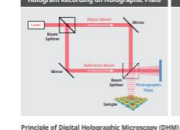
## Lyncée Reflection Series

### DHM Technology

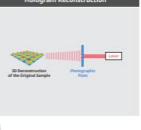
#### Principles of Classical Holography

A coherent light beam is split by a beam splitter between a reference and an object beam. The object beam is shined onto a sample. The wavefronts between the light reflected by the sample and the reference beam, i.e. the hologram, is recorded on a photosensitive support the principle plate. It contains information on the scattered phase and intensity changes induced by the sample. Shining coherent light onto the holographic plate recreates a 3D image of the original sample.

#### Hologram Recording on Holographic Plate

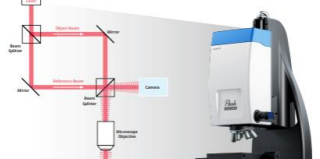


#### Hologram Reconstruction



#### Principle of Digital Holographic Microscopy (DHM)

DHM is the digital extension of classical holography. It is a patented technology that records holograms with a digital camera rather than an analog photographic plate. A numerical processing reproduces the classical reconstruction process to retrieve, in real time, the phase and intensity changes induced by the imaged sample. This information is then processed to remove the sample topography.




## A Workflow Shaped for Fast and Time-Resolved Applications

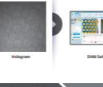
3D acquisition performed in a single exposure and 3D reconstruction at computer speed. All the pixels in the field of view are acquired simultaneously, without any delay, vertical or phase mechanical scanning enabling full-field acquisition of topography.

The acquisition time, which effectively defines the temporal resolution, is limited by the camera's shutter speed. In the case of a global shutter, the duration of the laser pulse. For standard systems, it typically a few hundreds of microseconds, a few tens of nanoseconds when using high-speed cameras, and can be as small as a few nanoseconds for MEMS arrays.

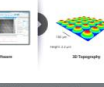
This exceptional acquisition speed is ideal for the dynamic measurement of sample deformation and for characterizing large area samples. It ensures excellent repeatability and high-resolution against environmental disturbances, which is particularly relevant for industrial applications.



Hologram



Reconstruction

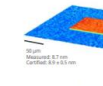


3D Topography

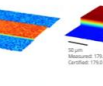
3D Data Acquisition - Camera Rate → Digital Reconstruction - Live

#### High-Resolution, Repeatability, and Linearity for Advanced Topography Applications

The phase changes measured by Lyncée Reflection series are precisely related to the laser source wavelength. Consequently, the surface topography is measured with near-constant resolution. By using ultra-stable lasers, there is no drifting or periodic wavelength drift, the operating wavelengths are precisely controlled and perfectly stable. The height values do not depend on any central calibration process providing high repeatability of an inter-day-to-day measurement, for any measured displacement or surface deformation system. This provides precise measurements with high repeatability.



0.05 μm  
Maximal: 0.7 cm  
Minimal: 0.3 cm  
Central: 0.3 to 0.5 cm



0.05 μm  
Maximal: 170 cm  
Minimal: 0.3 cm  
Central: 170 to 2.0 cm

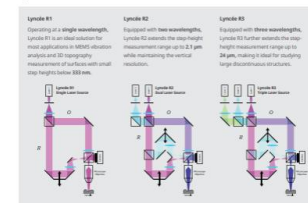
VL3 Certified Stage - Sub-nanometric Vertical Resolution

## Lyncée Reflection Series

Adaptable to Your Experimental Needs

### Lyncée Reflection Head Models

Lyncée R1	Lyncée R2	Lyncée R3
<ul style="list-style-type: none"> <li>Operating at single wavelength</li> <li>Lyncée R1 is an ideal solution for most applications at MEMS resolution and 3D topography measurement of surfaces with small magnification (100x)</li> </ul>	<ul style="list-style-type: none"> <li>Operating at dual wavelength</li> <li>Lyncée R2 extends the stage height measurement range up to 2.0 mm while maintaining the smallest large-displacement resolution.</li> </ul>	<ul style="list-style-type: none"> <li>Operating at three wavelengths</li> <li>Lyncée R3 further extends the stage height measurement range up to 100 mm while maintaining the smallest large-displacement resolution.</li> </ul>




### Flexible Upgrade and Options

Lyncée Reflection is designed with modularity in mind. Adding wavelength to the DHM head, or objective, motorized stage, environmental chamber, option to collect samples can be adapted to your application and budget at any time.


### Objectives Lens Sets

Objective lenses supports up to six objectives from 1.25x to 100x magnification, which allow easy switching between wide field-of-view and high-magnification objectives. The choice of objectives encompasses both low-magnification objectives, ultra-high NA, glass corrected as well as oil and water lenses.



### MotORIZED Sample Stage

Motorized stages are available for enhancing measurement capabilities. They can be fully controlled by the optics and are fully automated by the base camera, enabling user's automatic measurements for multiple measurements to average the measurement field of view for substantially improving and utilizing multiple images together. A large selection of stages is available to fulfill application and sample requirements. These include linear stages with 100 mm to 300 mm travel range and the new travel range fixed 400 mm (oil and water lenses).



# [Products] NX1 Launch Assets


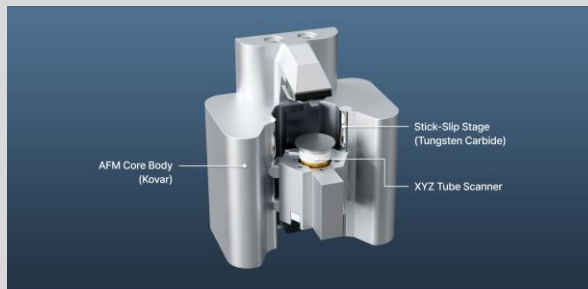

## Brochure

**Park NX1**  
The Highest Resolution AFM





## Video

## Press Release

**Park Systems Launches NX1: The Highest Resolution AFM for Atomic-Scale Imaging in Ambient Conditions**  
Apr 30, 2024


Park Systems Corp., the world's leading provider of atomic force microscopy (AFM) solutions, today announced the launch of the NX1 — a compact, high-performance AFM that delivers atomic-resolution imaging in ambient conditions. Developed in collaboration with Prof. Franz J. Giessibl of the University of Regensburg, one of the world's foremost authorities on atomic-resolution AFM, the NX1 brings a class of imaging performance previously confined to ultra-high vacuum environments into the reach of research labs worldwide.



*(Left to right) Prof. Franz J. Giessibl (University of Regensburg) and Dr. Sang-Joon Park (Founder & CEO, Park Systems)*

The NX1 is based on Orpheus II, a prototype developed by Prof. Giessibl's group at Regensburg that demonstrated atomic-resolution imaging in ambient conditions was achievable. Park Systems engineered that concept into a fully realized commercial product — combining the Orpheus II's proven core architecture, including a Kovar body for exceptional thermal stability, with Park Systems' precision manufacturing, product reliability, and global AFM engineering expertise. The result is an instrument that achieves a noise floor about an order of magnitude lower than conventional AFM systems, making atomic-scale imaging accessible in everyday laboratory settings.

"The NX1 is the result of combining Prof. Giessibl's pioneering research with Park Systems' proven ability to bring the world's most advanced science to market," said Dr. Sang-Joon Cho, Executive Vice President and Head of the Research Equipment Business Unit at Park Systems. "Together, we have created something that neither side could have achieved alone: a truly reliable, supportable, and accessible instrument for researchers worldwide. This is the kind of platform that creates and shapes new markets."



*The Park NX1 Atomic Force Microscope, designed for atomic-scale imaging in ambient conditions.*

Designed for both performance and everyday usability, the NX1 supports standard silicon cantilevers as well as an optional qPlus (quartz tuning fork) sensor — enabling picometer-scale excitation amplitudes and the high sensitivity to short-range forces. Probe exchange is simplified through a pre-aligned kinematic chip carrier system, and an integrated on-axis optical microscope provides a direct view of the probe and sample throughout operation. The system is fully compatible with Park Systems' SmartScan™ operating software and SmartAnalysis™ image analysis platform.

"Orpheus II proved the concept, but it was a research instrument — for experts only," said Prof. Franz J. Giessibl, University of Regensburg. "The expertise of Park Systems was essential to make this into a reliable product that the broader research community can use. The NX1 is what the idea always had the potential to become."

The NX1 is now available for order. For technical specifications and application data, visit <https://www.parksystems.com/en/products/research-afm/real-sample-afm/nx1>

## Social Media

**Park Systems**  
물론적 1.34139  
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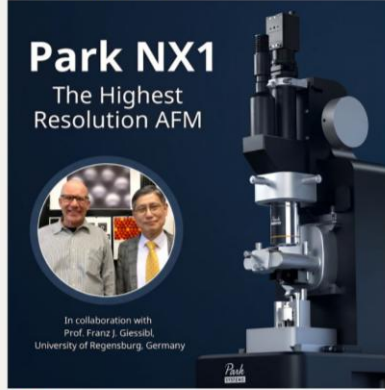
**[BREAKING NEWS]** Introducing Park NX1, the Highest Resolution Atomic Force Microscope, designed to bring atomic-scale imaging into everyday laboratory environments.

Developed in collaboration with Prof. Franz J. Giessibl of the University of Regensburg, one of the world's foremost authorities on atomic resolution AFM, NX1 combines exceptional stability, low noise, minimal thermal drift, qPlus sensor compatibility, and practical usability for advanced nanoscience research.

"The NX1 is the result of combining Prof. Giessibl's pioneering research with Park Systems' proven ability to bring the world's most advanced science to market," said Dr. Sang-Joon Cho, Executive Vice President at Park Systems. "Together, we have created something that neither side could have achieved alone: a truly reliable, supportable, and accessible instrument for researchers worldwide. This is the kind of platform that creates and shapes new markets."

Explore how NX1 opens new possibilities for atomic-resolution AFM in ambient conditions: <https://okt.to/bZuFlo>

#AtomicForceMicroscopy #AFM #AtomicResolution #Nanotechnology #Nanoscience #ParkSystems




**Park NX1**  
The Highest Resolution AFM

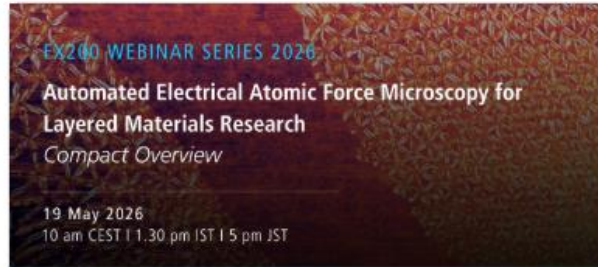
In collaboration with Prof. Franz J. Giessibl, University of Regensburg, Germany

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반응



## Upcoming Events



EX200 WEBINAR SERIES 2026

Automated Electrical Atomic Force Microscopy for Layered Materials Research

Compact Overview

19 May 2026  
10 am CEST | 1:30 pm IST | 5 pm JST



Webinar

Automated Electrical Atomic Force Microscopy for Layered Materials Research / Compact Overview

May 19, 2026 - May 19, 2026

[View Details >](#)



AFM WEBINAR SERIES 2026

Introduction to Nano-IR: Principles, Modes & Practical Applications

May 26, 2026  
11AM KST | 7:30AM IST | 8AM AEST



Webinar

Introduction to Nano-IR: Principles, Modes & Practical Applications

May 26, 2026 - May 26, 2026

[View Details >](#)



Tradeshow

E-MRS Spring Meeting & Exhibit 2026

May 26, 2026 - May 29, 2026

Strasbourg, France

[View Details >](#)



AFM WEBINAR SERIES 2026

Introduction to Nano-IR: Principles, Modes & Practical Applications

June 8, 2026  
7PM CST | 8PM EST | 5PM PST



# Active Marketing Activities



# Thank you

Park Systems

IR Team

[ir@parksystems.com](mailto:ir@parksystems.com)

031-780-7447