

# **Company Introduction**

Park Systems

IR Team

# **Disclaimer**

This document is an investor relations (Presentation) of Park Systems Corporation (the Company). You are prohibited from making and distributing copies to others without Park Systems' written consent.

Your attendance or reading of this Presentation shall constitute that you have agreed with the above confidentiality notice. And violating it may be punishable by the Act of the Financial Investment Services and Capital Markets.

The forward-looking statements contained in this document are not from verifiable data. The estimates included in this document are forecasted data and not actual data from the past. Those data are denoted as (E), estimate and forecast. The estimated and forecasted numbers and information can change based on the changing business environment. Because this information is inherently difficult to predict, the estimations and forecasts can deviate significantly in actuality.

Furthermore, the forecast is based on the current market conditions and the status of the Company management and plan as of the date of this presentation. The market in the future may change and the Company's plans may be modified without notice. The officers of the Company and the Company will not be responsible for any loss arising from the use of this material (including negligence and others).

This document shall not constitute an offer or solicitation to sales, marketing, or subscription of shares without any part that can be the basis or a basis for investment decisions or contracts and commitments in the document.



# Introduction



- Park Systems is at the forefront of advanced nanotechnology, delivering innovative solutions enabling research and industry to achieve unprecedented precision and progress.
- Our state-of-the-art AFM technology facilitates breakthroughs across a broad spectrum of sectors including semiconductors, biotechnology, and secondary battery development — continually setting new benchmarks in accuracy and performance.



# **Customers**

Park Systems' Atomic Force Microscopes (AFMs) are extensively used for nanoscale measurements by leading global universities, government-funded research institutes, corporate research centers, and major semiconductor and other business-related companies worldwide.



















































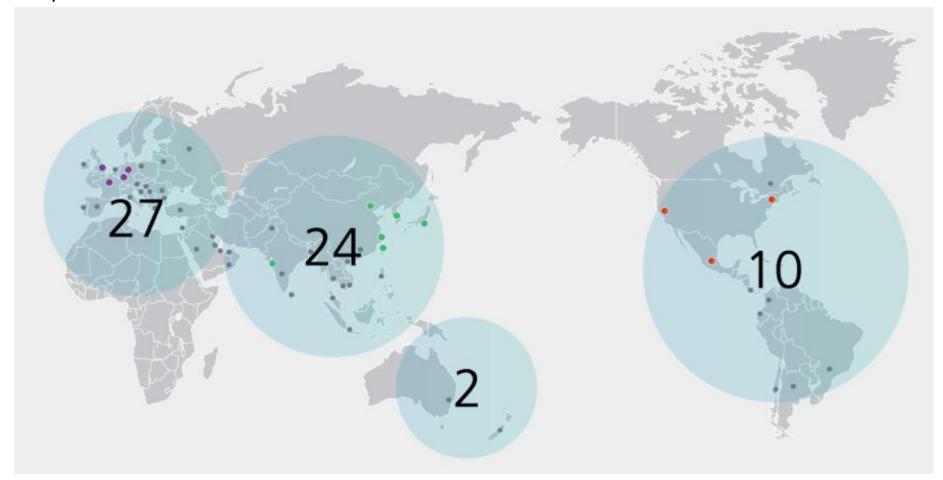






# **Global Channels**

Park Systems boasts a significant global network, with offices and partners spanning in the Americas, Europe, Asia, and Oceania.



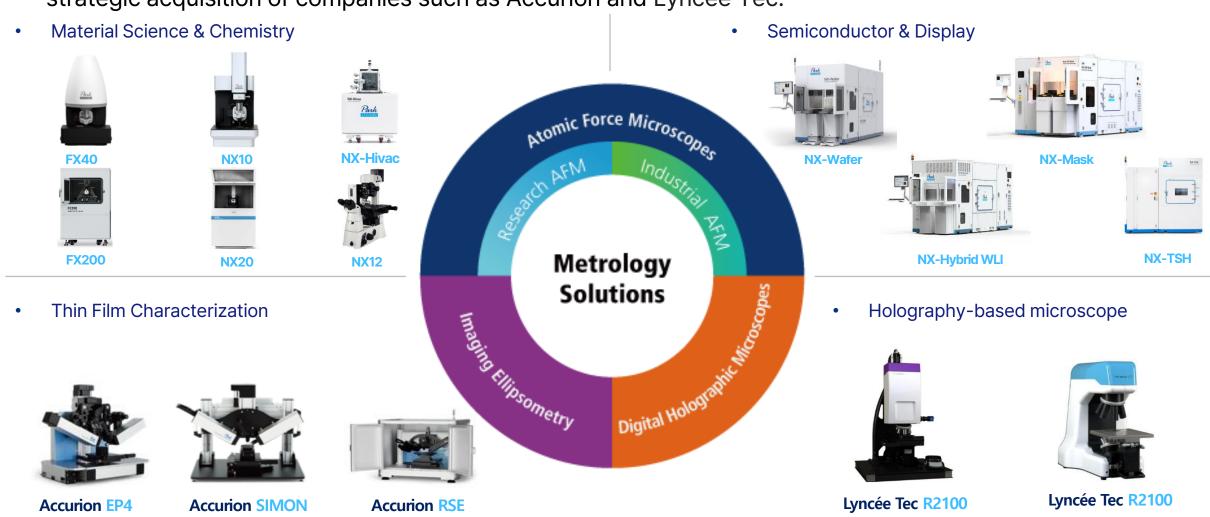


# **Key Products and Services**

Park Systems

Enabling Nanoscale Advances

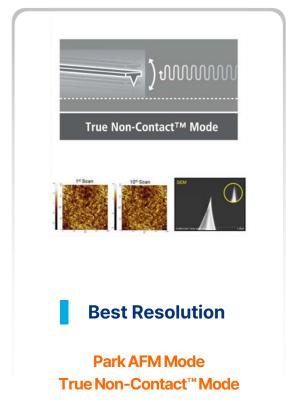
Park Systems supplies advanced AFMs and continues to enhance its metrology capabilities through the strategic acquisition of companies such as Accurion and Lyncée Tec.

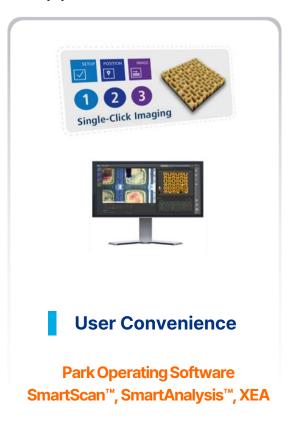


# Innovative technology

- Monitoring the surface topography using **interaction**(Atomic Force) between the tip and the sample surface.
- Measuring the Electrical, Mechanical, Magnetic, Thermal, and Topography properties
- True Non-Contact mode, optimized for both research and industrial applications.







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



# **History**

Park Systems was established by one of the original Atomic Force Microscope (AFM) developers to make the world's most precise nanoscale metrology and imaging instruments widely available.

# The Birth-Place of AFM Stanford University 1982-1988

### The First AFM Company



Park Scientific Instruments

#### 1988-1997



#### The AFM Technology Innovator



#### 세계 2위, 국내 유일 ... 원자현미경 분야 '매운 고추'

박 대표, 스탠퍼드서 물리학 전공의

교수직도 거절하고 나노 분야 계척

마이크론 등 글로벌 업체가 주 고객 경기도 수본의 파크시스템스는 지난해 연 대출이 200억된 정도인 작은 기업이다. 하

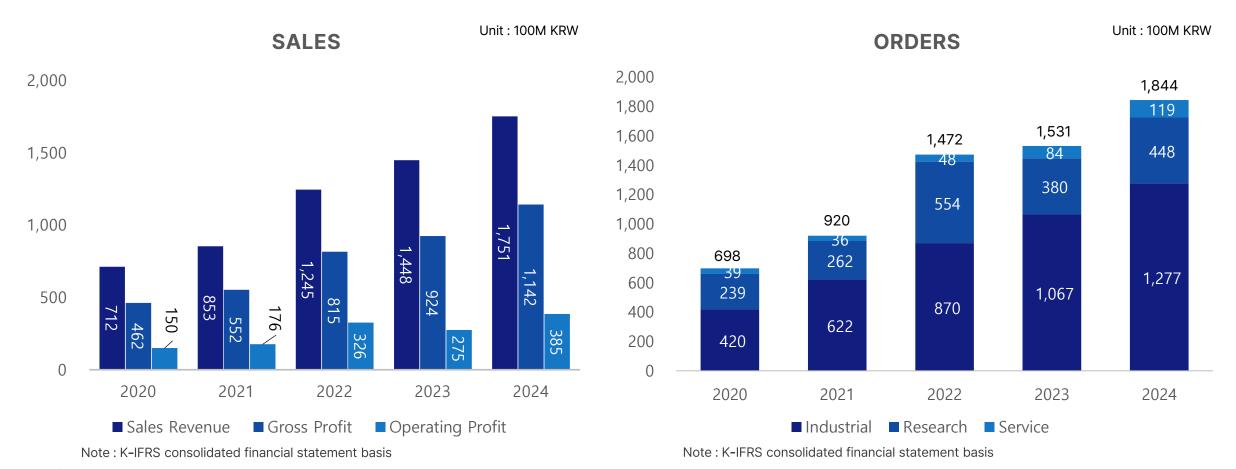
유하는 힘을 기록하는 위리를 통해 다 10억 분의 (m) 크기의 위자까지 볼 4

다. 지난해 12월에는 회사가 코스타에 상징



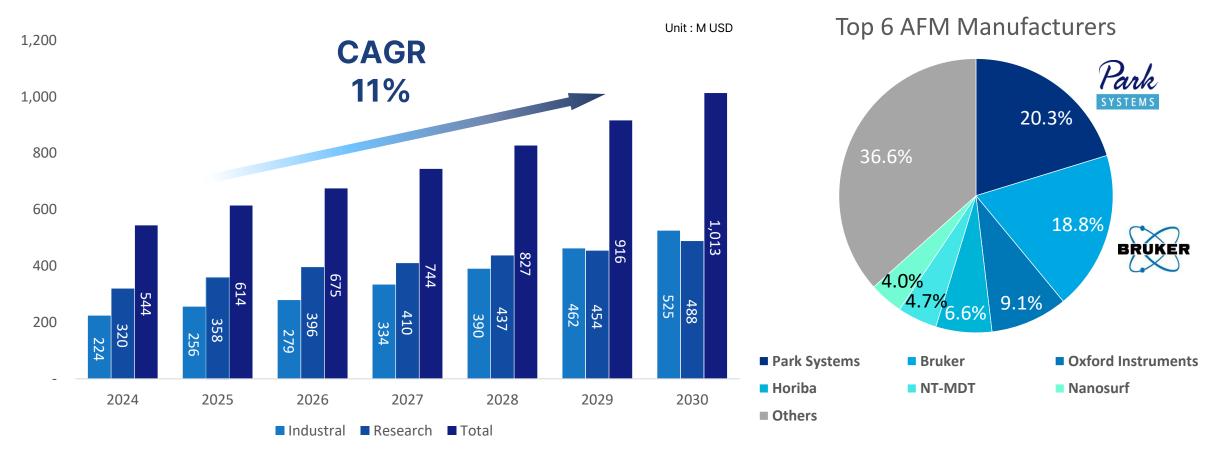
# Sales and Orders for the Past 5 Years

- Park Systems has consistently experienced annual growth of 20-30%.
- Sales have steadily increased due to the rising demand for industrial equipment.



# **AFM Market**

- Park Systems holds the No.1 position in the AFM market.
- The AFM market is expected to grow steadily, driven by increasing demand for industrial equipment.

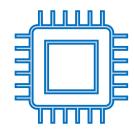


Source: Global Atomic-force Microscopy Market Report(History and Forecast 2019-2030) by QYResearch



# **Market Opportunity**

- Opportunities arising from the miniaturization of semiconductor processes.
- Potential for scalability to industries beyond semiconductors.









Miniaturization and **Increasing Complexity**  Increasing Utilization in **Advanced Processes** 

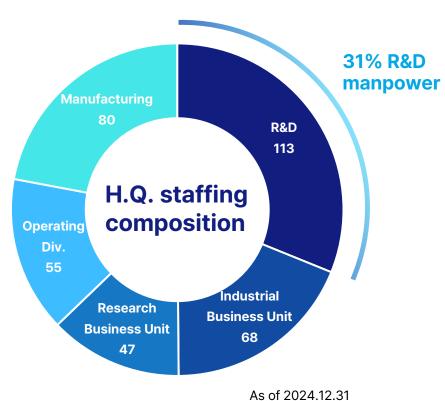
Growing Applications in **Back-End Processes** 

Expansion into Various industries

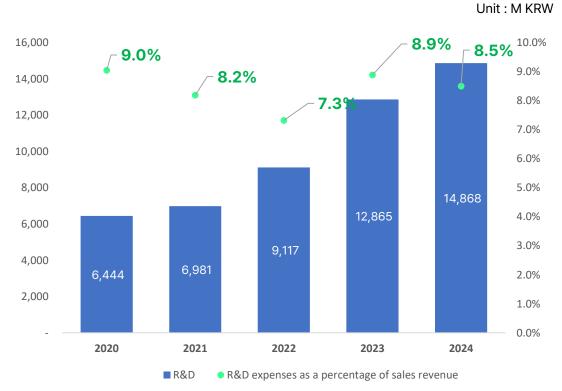


# R&D

Park Systems has been recognized for its top-tier research and development in nanoscale metrology.



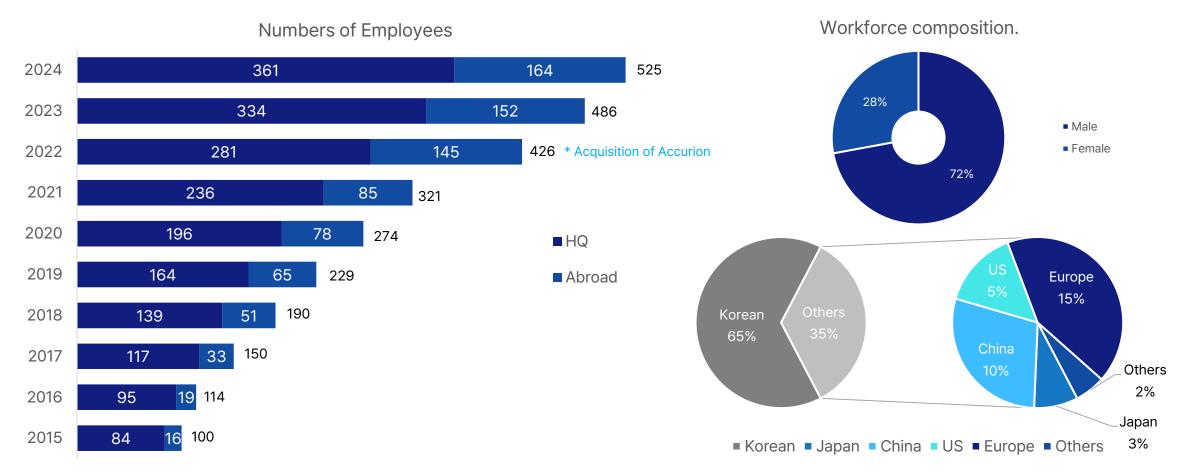
Note: K-IFRS consolidated financial statement basis





# ESG-HR

- The workforce has steadily increased each year due to explosive growth.
- The company prioritizes diversity, emphasizing inclusion across gender and nationality.



### **ESG-**Board of Directors

The Board of Directors consists of 1 CEO and 6 outside directors for decision-making transparency.



#### Sang-il Park Chairman

- CEO, Park Systems Corp. (1997~)
- · President, Institute of Control, Robotics, and Systems (2024)
- CEO, Park Scientific Instruments (1988~1997)
- MBA, AEA-Stanford Executive Institute (1994)
- PhD, Applied Physics, Stanford University (1987)
- BS, Physics, Seoul National University (1981)

#### Compensation Committee -



#### Jung-hwa Han Outside director

- Outside director of Park Systems(2020~)
- Professor, Hanyang University (1989~)
- President, Small and Medium Venture Business Policy Association  $(2020 \sim 2022)$
- Director, Small and Medium Business Administration (2013~2016)
- PhD, Business Administration, University of Georgia (1988)
- BBA, Seoul National University (1977)



#### Jun Chung Outside director

- Outside director of Park Systems(2023~)
- CEO, SOLiD, Inc. (1998~)
- Adjunct Professor, KAIST Startup (2020~)
- Senior Researcher, Korea Telecom (1994~1998)
- PhD. Electrical Engineering, Stanford University (1993)
- BS. Electrical Engineering, Seoul National University (1986)



#### Ki-young Choi Outside director

- Outside director of Park Systems(2025~)
- Emeritus Professor, Seoul National University (2021~)
- Minister of Science and ICT, Republic of Korea (2019~2021)
- PhD, Electrical Engineering, Stanford University (1989)
- MS, Electrical and Electronic Engineering, KAIST (1980)
- BS, Electronic Engineering, Seoul National University (1978)

#### **Audit Committee**



#### **Kee-jun Park Outside director**

- Outside director of Park Systems(2024~)
- CPA, Woori Accounting Firm (2020~)
- CEO. Kitus Co., Ltd. (2009~2019)
- CPA, Anjin Accounting Firm (1988~1997)
- PhD, Business Administration, University of Seoul (2011)
- BBA, Seoul National University (1989)



#### Seung-ki Chae Outside director

- Outside director of Park Systems(2020~)
- Technical Committee, LG Display (2019~2024)
- Professor, Sungkyunkwan University (2016~2019)
- Senior Vice President, Samsung Display (2011~2015)
- Vice President, Samsung Electronics (1993~2010)
- PhD, Mechanical Engineering, University of Minnesota (1991)
- PS, Mechanical Engineering, Seoul National University (1982)



#### Hee-kook Lee Outside director

- Outside director of Park Systems (2025~)
- Advisor, LG Corp. (2020~2022)
- President & Chairman of Group Technology Council, LG Corp. (2012~2016)
- President, LG Electronics (2004)
- PhD, Electronic Engineering, Stanford University (1980)
- MS, Electronic Engineering, Stanford University (1977)
- BS, Electronic Engineering, Seoul National University (1974)



### **ESG-**Dividend

- Dividend Policy to enhance shareholder Value
  - Priority is given to investment in both organic and inorganic growth.
  - Plans include share repurchase and dividend payouts.
  - Dividends are expected to range between 10% and 50% of Free Cash Flow (FCF)

	Unit	2020	2021	2022	2023	2024
Earnings per Share	KRW	1,629	1,508	3,258	3,786	5,614
Dividend per share	KRW	180	250	400	400	500
Free Cash Flow (A)	M KRW	9,020	3,693	17,020	17,080	26,782
Total dividend (B)	M KRW	1,195	1,717	2,761	2,768	3,470
Payout ratio (B/A)	%	13%	46%	16%	16%	13%



# **ESG-**Safety & Environment

Park Systems is continuously obtaining certifications for environmental and safety standards.







# Key driver for sustainable growth

Park Systems drives sustainable growth through continuous innovations in nanotechnology.



- Growth potential with advancing nanotechnology
- A stable market with a long technology lifecycle



Technology

- World-class technology that's difficult to replicate
- National core technology that cannot be leaked



Product

- A product with top-tier competitiveness
- High-value-added product



Global market expansion through own brand and sales network



- Supplies to leading universities, research institutes, and companies worldwide
- High customer satisfaction



**Employee** 

Passionate and loyal high-caliber talents



# **Appendix**

# **CAPEX Investment Plans**

- New Gwacheon Headquarters
  - Construction Start date: 2023.9.15
  - Estimated Move-in: First half of 2026



- Yongin Semiconductor Cluster Allocation
  - Park Systems has secured factory premises within the SK Hynix-led Yongin Semiconductor Cluster





# **Activities for Advancing Nanotechnology**

- Park Systems is actively engaged in advancing nanoscience through various initiatives.
- Park Systems is involved in organizing nanoscience-related events and publishing relevant magazines.

#### **NANOscientific** Symposium 2024

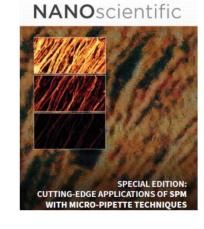
Scanning Probe Microscopy (SPM)

The 2024 NANOscientific Symposium is set to be a landmark event, uniting global experts in the fields of nanoscience and nanotechnology.

This year, we extend our focus beyond Scanning Probe Microscopy (SPM) to encompass a broader range of nanotechnological applications and innovations. With an enriched agenda featuring keynote presentations from trailblazers in the industry, interactive sessions, and enhanced virtual networking opportunities, attendees will have unprecedented access to resources and collaborations that drive research, innovation, and commercial success in the ever-evolving world of nanotechnology.



**NANOscientific** Magazine, FALL 2024



# **Company Overview**

#### **Company Status**

Company	Park Systems Corp.
CEO	Sang-il Park
Established	April 7, 1997
Capital	3,494m (KRW) (As of Dec, 2024)
Employees	525 (As of Dec, 2024)
Business field	Precision Instrument Manufacturing
Product	Atomic Force Microscope
Location	KANC 15F, Gwanggyo –ro 109, Yeongtong-gu, Suwon, 16229, Korea
Website	http://www.parksystems.com

#### **Business Philosophy**



- Become the one who receives compliments from people and descendants.
- Provide maximum value to customers, shareholders, employees and business partners, furthermore, become a company that provides benefits to both companies and the society.
- Excel in technical development and global marketing.
- Trust is the best asset, and moral and ethical management are basic.



# **Management Team**



#### Sang-il Park Founder and CEO

- CEO, Park Systems Corp. (1997~)
- President, Institute of Control, Robotics, and Systems (2024)
- CEO, Park Scientific Instruments (1988~1997)
- MBA, AEA-Stanford Executive Institute (1994)
- PhD, Applied Physics, Stanford University (1987)
- BS, Physics, Seoul National University (1981)



Ryan Yoo EVP
Business Development &
Strategic Growth BU
19yrs at Park Systems, 24yrs overall

- Intematix Corp. VP, Founding Scientist and VP of R&D
- Ph.D. Physics, UC Berkeley
- B.S. Physics, Univ. of Chicago



**Karen Cho** EVP Operations Management Div. 21yrs at Park Systems, 30yrs overall

- Solborn, Inc. Gyelim CRC, Inc.
- Hanareum Merchant Bank
- Hanhwa Merchant Bank
- MBA, KAIST
- B.A. English literature, Sejong Univ.



**Sang-Joon Cho** EVP Research Equipment BU 19yrs at Park Systems, 24yrs overall

- Korea R&D Industry Association, Board of Directors
- ISO/TC201/SC9 SPM, Chairman
- KAIST, Dept of biosystems, Research Professor
- Research Associate, Dept. of Physiology, Univ. of Wayne
- Ph.D. Neuroscience, Iowa-state Univ.



Richard Lee EVP
Industrial Equipment BU
3yrs at Park Systems, 24yrs overall

- Nanometrics Korea, VP of Marketing
- KLA-Tencor, Wafer Inspection Div. Marketing Dir.
- Samsung Electronics Team
   Leader of Metrology and Inspection
- Ph.D. Mech Eng, KAIST

#### **R&D Organization**

Sang-il Park holds a dual role as CTO.

- 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**

Park Systems has received prestigious awards and obtained top-level technology certifications.





**KOSDAQ Grand Prize** 

2024 IR Grand Prize



- National Core Technology
- AA in Technology Assessment



# **Financial Statements**

- Park Systems continues to experience annual growth of 20-30%.
- Park Systems achieves high-profit margins by supplying high-value-added products.

Unit: M KRW

B/S	2020	2021	2022	2023	2024
Current assets	80,727	106,681	126,307	148,107	191,151
Non-current assets	23,688	27,234	40,742	53,566	83,164
Total asset	104,415	133,915	167,049	201,673	274,315
Current liabilities	27,265	26,669	39,688	49,665	62,938
Non-current liabilities	24,068	17,103	7,898	8,523	23,468
Total Liabilities	51,333	43,772	47,586	58,188	86,406
Capital	3,334	3,449	3,474	3,483	3,494
Additional paid in capital	14,644	43,629	48,146	49,189	50,814
Others	(273)	(203)	(1,692)	(523)	2,229
Retained earnings	35,377	43,267	69,535	91,336	131,372
Total equity	53,082	90,142	119,463	143,485	187,909

I/S	2020	2021	2022	2023	2024
Sales Revenue	71,223	85,250	124,522	144,806	175,060
Cost of goods sold	25,049	30,063	43,053	52,401	60,842
Operating expenses	31,193	37,606	48,821	64,845	75,688
Operating profit	14,981	17,581	32,648	27,560	38,530
Non-operating profit	2,068	10,962	11,332	6,662	14,788
Non-operating expenses	6,333	19,788	12,099	7,079	6,088
Profit before tax	10,716	8,755	31,881	27,143	47,230
Tax expenses	760	(330)	3,897	2,581	4,427
Net income	9,956	9,085	27,984	24,562	42,803

Note: K-IFRS consolidated financial statement basis

Note: K-IFRS consolidated financial statement basis



Unit: M KRW

# **Patents**

Domestic and international patents in the field of atomic force microscopy

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





# Thank you

Park Systems

IR Team

<u>ir@parksystems.com</u>

031-780-7447



# 2024 Earnings Presentation

Park Systems

IR Team

# Disclaimer

This document is an investor relations (Presentation) of Park Systems Corporation (the Company). You are prohibited from making and distributing copies to others without Park Systems' written consent.

Your attendance or reading of this Presentation shall constitute that you have agreed with the above confidentiality notice. And violating it may be punishable by the Act of the Financial Investment Services and Capital Markets.

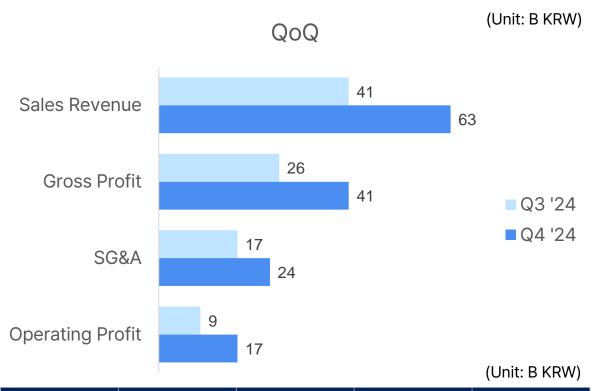
The forward-looking statements contained in this document are not from verifiable data. The estimates included in this document are forecasted data and not actual data from the past. Those data are denoted as (E), estimate and forecast. The estimated and forecasted numbers and information can change based on the changing business environment. Because this information is inherently difficult to predict, the estimations and forecasts can deviate significantly in actuality.

Furthermore, the forecast is based on the current market conditions and the status of the Company management and plan as of the date of this presentation. The market in the future may change and the Company's plans may be modified without notice. The officers of the Company and the Company will not be responsible for any loss arising from the use of this material (including negligence and others).

This document shall not constitute an offer or solicitation to sales, marketing, or subscription of shares without any part that can be the basis or a basis for investment decisions or contracts and commitments in the document.



# Q4 '24 Performance



	Sales Revenue	Gross Profit	SG&A	Operating Profit
Q3 '24	41	26	17	9
<b>Q</b> 4 '24	63	41	24	17
QoQ(%)	53%	54%	37%	90%

Note: K-IFRS consolidated financial statement basis

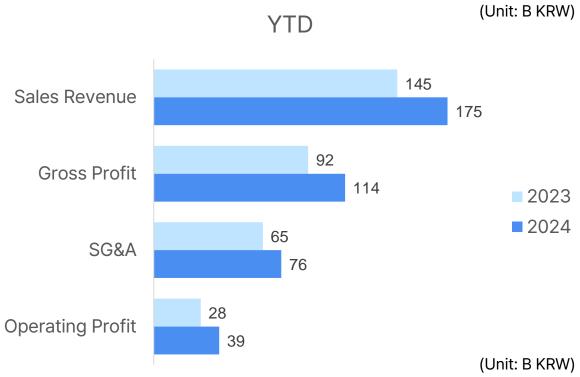
	YoY	(Unit: B KRW)
Sales Revenue	33	63
Gross Profit	19	■ Q4 '23
SG&A	13 24	■ Q4 '24
Operating Profit	6 17	(Unit: B KRW)

	Sales Revenue	Gross Profit	SG&A	Operating Profit
Q4 '23	33	19	13	6
<b>Q</b> 4 '24	63	41	24	17
YoY(%)	92%	115%	82%	195%

Note: K-IFRS consolidated financial statement basis



# 2024 YTD Performance



	Sales Revenue	Gross Profit	SG&A	Operating Profit
2023	145	92	65	28
<b>2</b> 024	175	114	76	39
YoY(%)	21%	24%	17%	40%

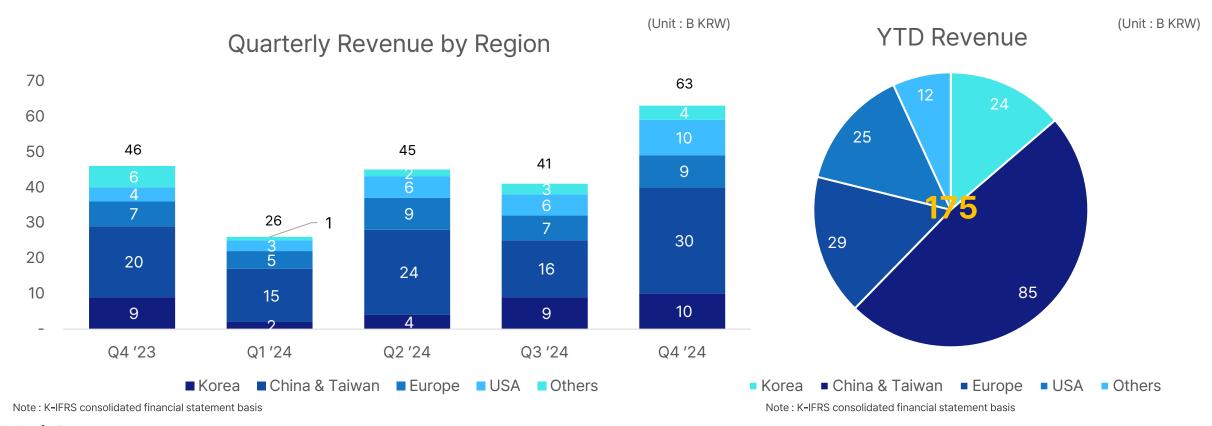
Note: K-IFRS consolidated financial statement basis

- Sales Revenue increased by 21% YoY due to the rising demand for industrial equipment.
- Gross profit rose by 24%, with GPM of 65% steadily
- SG&A increased by 17% YoY, primarily due to higher R&D expenses, Labor costs, and Commissions.
- Operating profit rose by 40%, with OPM of 22%, an increase of 3%p compared to the previous year.



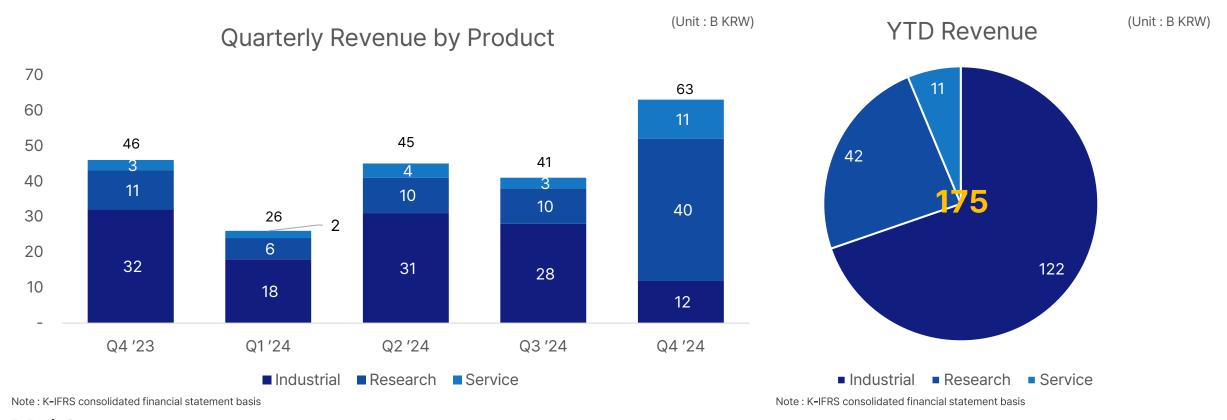
# 2024 Revenue by Region

- Year-to-date (YTD) Revenue Distribution:
  - China & Taiwan 48%, Europe 17%, Korea/USA 14%, Others 7%



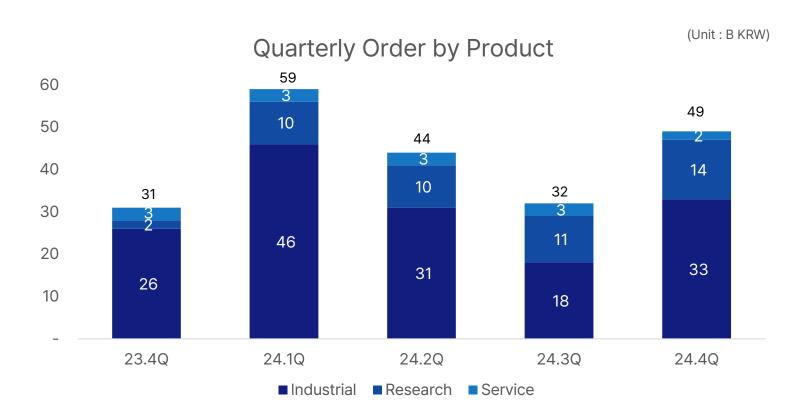
# **2024 Revenue by Product**

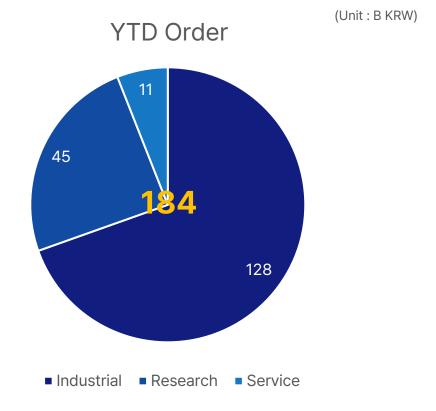
- Year-to-date (YTD) Revenue Distribution:
  - Industrial 70%, Research 24%, Service 6%



# 2024 POs by Product

- Year-to-date (YTD) Order Distribution: Total 184 Billion KRW
  - Industrial 69%, Research 24%, Service 6%

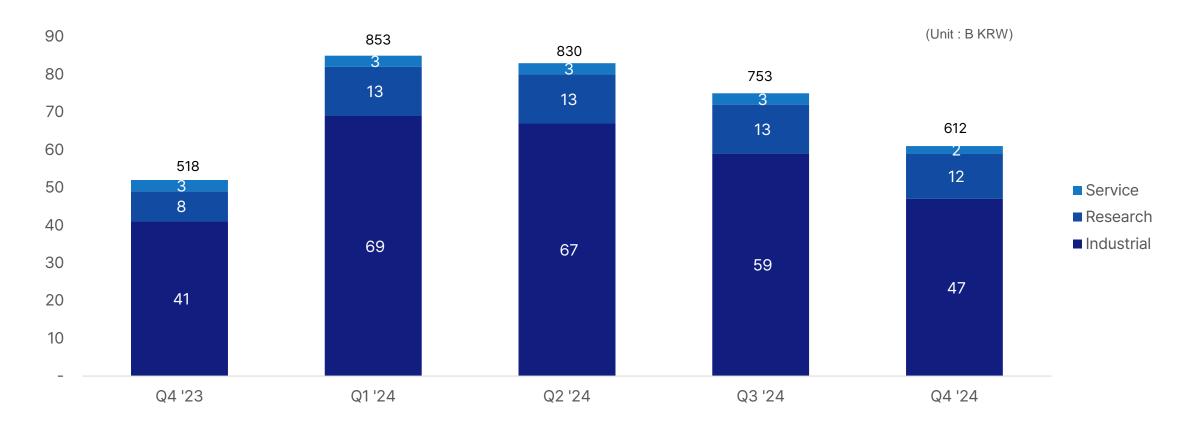






# **2024 Order Backlog by Product**

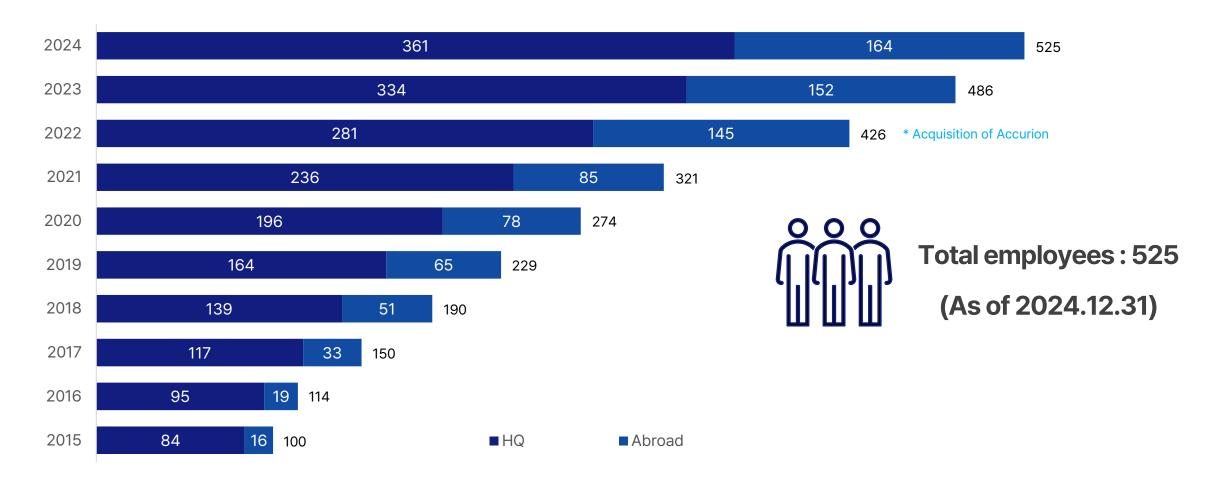
- Order Backlog: Total 61 Billion KRW
  - Industrial 76%, Research 19%, Service 5%





# HR

#### **Numbers of Employees**





# Q4 '24 Events

- Various activities for the advancement and exchange of nanotechnology.
- NANOscientific Symposium Japan, Tokyo (Oct 18)



NANOscientific Forum Europe, Germany (Oct 29~31)



NANOscientific Symposium China, Suzhou (Oct 25~27)



NANOscientific Symposium Americas, AZ, USA (Nov 11~13)





# Q4 '24 Events

- Various activities for the advancement and exchange of nanotechnology.
- ICCAS 2024, Jeju (Oct 29 ~ Nov 1)



ICSPM32 Sapporo, Japan (Nov 18~20)



KISM, Busan (Nov 11~15)



2024 NANOscientific Symposium Korea, Busan (Nov 21)



# Q4 '24 Awards

Demonstrated capabilities and competitiveness by receiving multiple awards in various fields, including capital markets, technological excellence, and sales performance.



2024 Korea IR Awards(Oct 17)



2024 Ministry of Industry Top 10 R&D Award (Nov 27)



\$70 Million Export Tower Award (Dec 5)



# M&A

Acquisition of Lyncée Tec (Dec 20, 2024)

About Lyncée Tec				
Corporate name	Lyncée Tec			
Location	Lausanne, Swiss			
<b>Business Item</b>	Digital Holographic Microscope (DHM®)			
Employees	18			

#### **Innovative Solutions**

Lyncée Tec delivers cutting-edge 3D analysis solutions using patented DHM® technology.

#### **Collaborative Development**

Close partnerships with institutions like EPFL drive advanced technology and customized systems.

#### **Industry Leadership**

Leading innovation in life sciences, material sciences, industrial quality control, and R&D with multidisciplinary expertise.







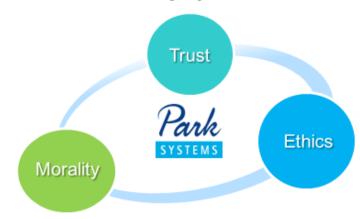
# **Appendix**

# **Company Overview**

#### **Company Status**

Company	Park Systems Corp.
CEO	Sang-il Park
Established	April 7, 1997
Capital	3,494m (KRW) (As of Dec, 2024)
Employees	525 (As of Dec, 2024)
Business field	Precision Instrument Manufacturing
Product	Atomic Force Microscope
Location	KANC 15F, Gwanggyo –ro 109, Yeongtong-gu, Suwon, 16229, Korea
Website	http://www.parksystems.com

#### **Business Philosophy**



- Become the one who receives compliments from people and descendants.
- Provide maximum value to customers, shareholders, employees and business partners, furthermore, become a company that provides benefits to both companies and the society.
- Excel in technical development and global marketing.
- Trust is the best asset, and moral and ethical management are basic.



# **Financial Statements**

- Park Systems continues to experience annual growth of 20-30%.
- Park Systems achieves high-profit margins by supplying high-value-added products.

Unit: M KRW

2020 2021 2022 2024 B/S 2023 80,727 106,681 **Current assets** 126,307 148,107 191,151 Non-current 23,688 27,234 40,742 53,566 83,164 assets **Total asset** 133,915 167,049 201,673 274,315 104,415 **Current liabilities** 27,265 26,669 39,688 49,665 62,938 Non-current 8,523 24,068 17,103 7,898 23,468 liabilities **Total Liabilities** 51,333 43,772 47,586 58,188 86,406 Capital 3,334 3,449 3,474 3,483 3,494 **Additional paid** 43,629 49,189 50,814 14,644 48,146 in capital **Others** (273)(203)(1,692)(523)2,229 Retained 35,377 43,267 69,535 91,336 131,372 earnings Total equity 90,142 119,463 143,485 187,909 53,082

Unit: M KRW

I/S	2020	2021	2022	2023	2024
Sales Revenue	71,223	85,250	124,522	144,806	175,060
Cost of goods sold	25,049	30,063	43,053	52,401	60,842
Operating expenses	31,193	37,606	48,821	64,845	75,688
Operating profit	14,981	17,581	32,648	27,560	38,530
Non-operating profit	2,068	10,962	11,332	6,662	14,788
Non-operating expenses	6,333	19,788	12,099	7,079	6,088
Profit before tax	10,716	8,755	31,881	27,143	47,230
Tax expenses	760	(330)	3,897	2,581	4,427
Net income	9,956	9,085	27,984	24,562	42,803

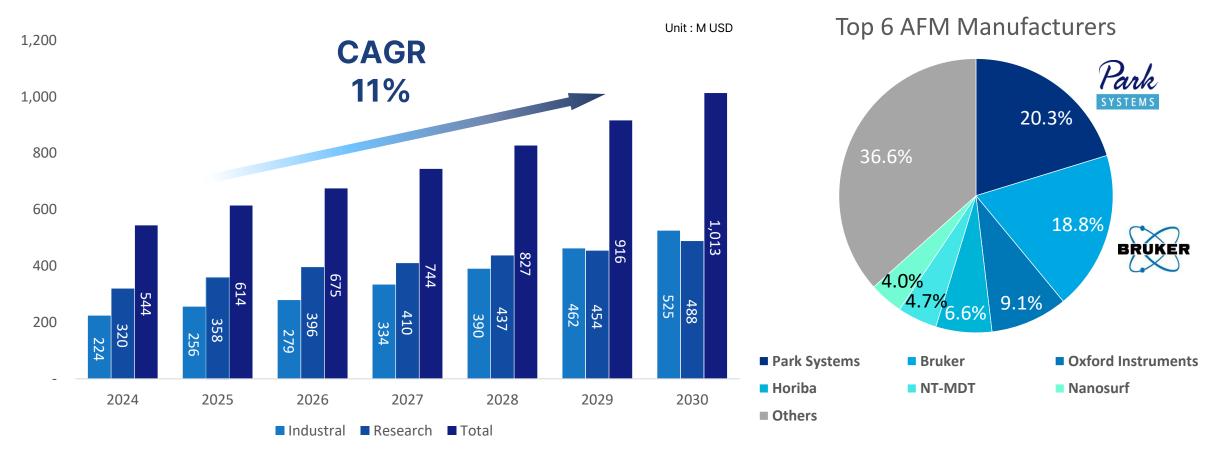
Note: K-IFRS consolidated financial statement basis

Note: K-IFRS consolidated financial statement basis



# **AFM Market**

- Park Systems holds the No.1 position in the AFM market.
- The AFM market is expected to grow steadily, driven by increasing demand for industrial equipment.



Source: Global Atomic-force Microscopy Market Report(History and Forecast 2019-2030) by QYResearch





# Thank you

Park Systems

IR Team

<u>ir@parksystems.com</u>

031-780-7447