

股票代號

6854

統創科技 上市前業績發表會

主辦承銷商 🏠 元大證券

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I. Company Profile

Company Basic Information

Milestone

Group Structure

Main Shareholder Structure

Board Members and Key Management Team

Company Basic Information

Company Name

PlayNitride Inc. (錼創科技股份有限公司)

Founded

February 25th, 2014

Chairman/CEO

Dr. Yun-Li Li

Paid-up Capital

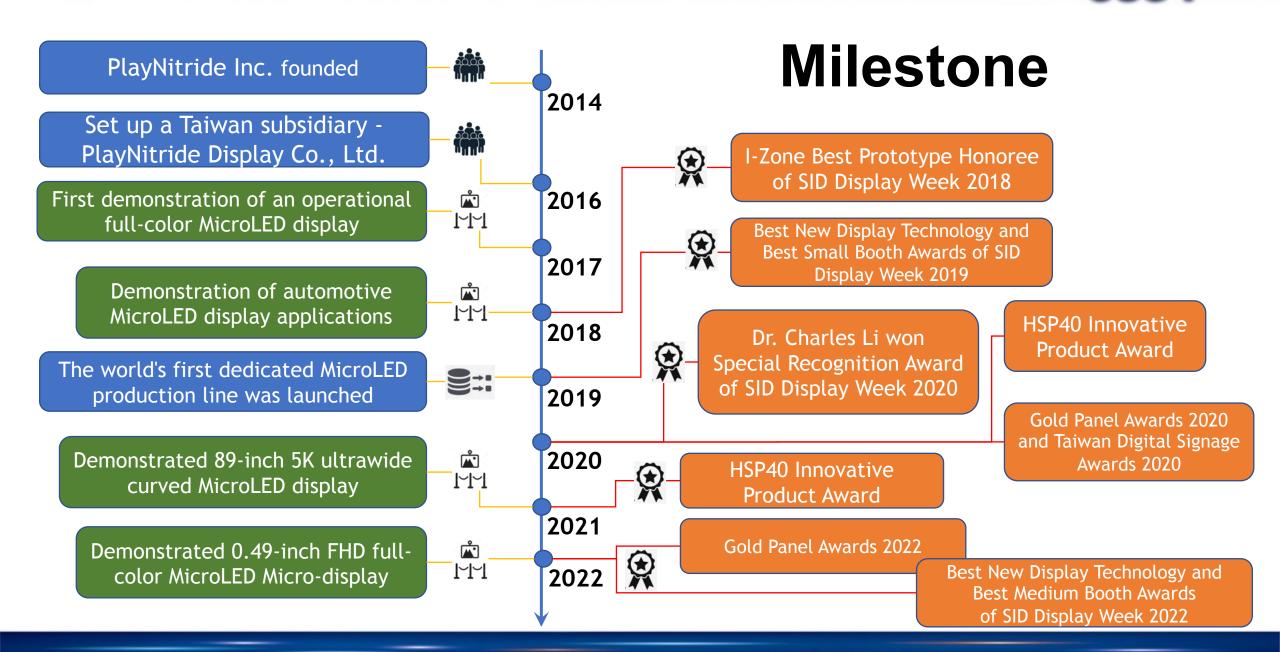
NTD 1,008,736,220

Main Product

MicroLED Chip on Carrier and Technical Service

Total Number of Employees

362 people (R&D : 146 people)



Group Structure

PlayNitride Inc. (錼創科技股份有限公司)

> Place of Registration: British Cayman Islands

Branch

PlayNitride Inc. Taiwan
Branch

Place of Registration: Taiwan

Subsidiary

100%

PlayNitride Display Co., Ltd.

Place of Registration: Taiwan

Main Shareholder Structure

February 11th, 2022

Shares Main Shareholders	Number of shares held (unit: share)	Shareholding ratio (unit: %)	
SVIC No. 45 New Technology Business Investment L.L.P.	11,993,446	11.89	
SVIC No. 32 New Technology Business Investment L.L.P.	10,867,604	10.77	
JKL Capital Investments Ltd	9,229,302	9.15	
晶元光電股份有限公司 (EPISTAR Corporation)	9,137,338	9.06	
康利投資股份有限公司 (Konly Venture Corp.)	7,534,628	7.47	
宋學仁 (SUNG, HSUEH-JEN)	5,395,310	5.35	
光寶科技股份有限公司 (LITE-ON Technology Corporation)	4,234,736	4.20	
KingTiger Memory Solution Inc.	3,912,338	3.88	
李允立 (Yun-Li Li)	3,831,111	3.80	
Lighting Investment Ltd.	2,757,082	2.73	

Board Members

	Title	Name	Main Experience	Shareholding Ratio
1	Chairman	Yun-Li Li	CEO & CTO of PlayNitride Inc., Chairman of PlayNitride Display Co., Ltd.	3.80%
2	Director	SVIC No. 32 New Technology Business Investment L.L.P. Representative: Jungho Kim	EVP of SVIC	10.77%
3	Director	EPISTAR Corporation Representative: Katherine Hong	VP of Epistar Corporation	9.06%
4	Director	Konly Venture Corp. Representative: Wai Lung Liau	CTO of AUO Corporation	7.47%
5	Director	LITE-ON Technology Corporation Representative: Steven Liau	VP of LITE-ON Technology Corporation	4.20%
6	Independent Director	I-Cheng Liu	Director of Chia Hsin Cement Group	0%
7	Independent Director	Feng-Yuan Gan	President of E Ink Holding Inc.	0%
8	Independent Director	Wei Wang	Chairman & CEO of Crystalvue Medical Corporation	0%

Key Management Team



Dr. Yun-Li Li

- •Chairman and CEO, PlayNitride Inc.
- •CTO, Genesis Photonics Inc.
- Asst. Professor, Graduate Institute of Photonics and Optoelectronics, NTU
- Ph.D. of Electrical Engineering,
 Rensselaer Polytechnic Institute, RPI
 B.S. of Physics, NTU



Joe Chen

- •COO, PlayNitride Inc.
- •AVP, Genesis Photonics Inc.
- •M.S. of Department of Materials Science and Engineering, NTUST



YS Wang

- •VP of Manufacture, PlayNitride Inc.
- •GM, TSLC
- •VP of Logistic, VisEra
- •VP of Manufacture, Hannspree
- •Deputy Director of F8A / Manufacture Committee, TSMC
- •B.S. of Industrial Engineering



Jonathan Chen

- •CSO, PlayNitride Inc.
- •CFO, TPK Holding Co., Ltd.
- •Senior Manager of Finance, Foxconn
- •M.A. of Financial Investment, Bernard M. Baruch College-CUNY

II. Product Applications

Advantages of MicroLED display

Displays are everywhere and all can be with MicroLED

MicroLED TV at CES 2022

Large-size MicroLED Display (Modular PCB)

Transparent display technology is the key to future car display

Wearable MicroLED Display

MicroLED micro-display is the key for AR glasses

Advantages of MicroLED display

High Efficiency & Low Power Consumption

Long Lifetime with Good Reliability

High Brightness & High Contrast Ratio



Fast Response

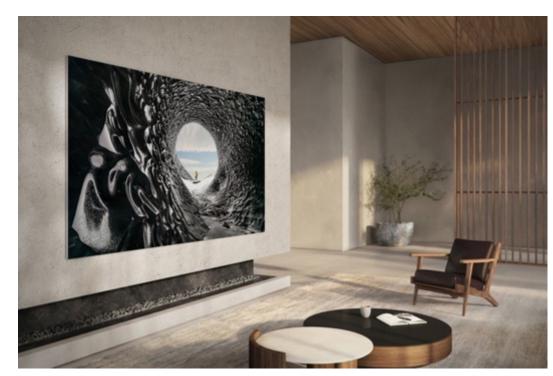
High Pixel Density

Flexible and Bendable

Displays are everywhere and all can be with MicroLED



MicroLED TV at CES 2022



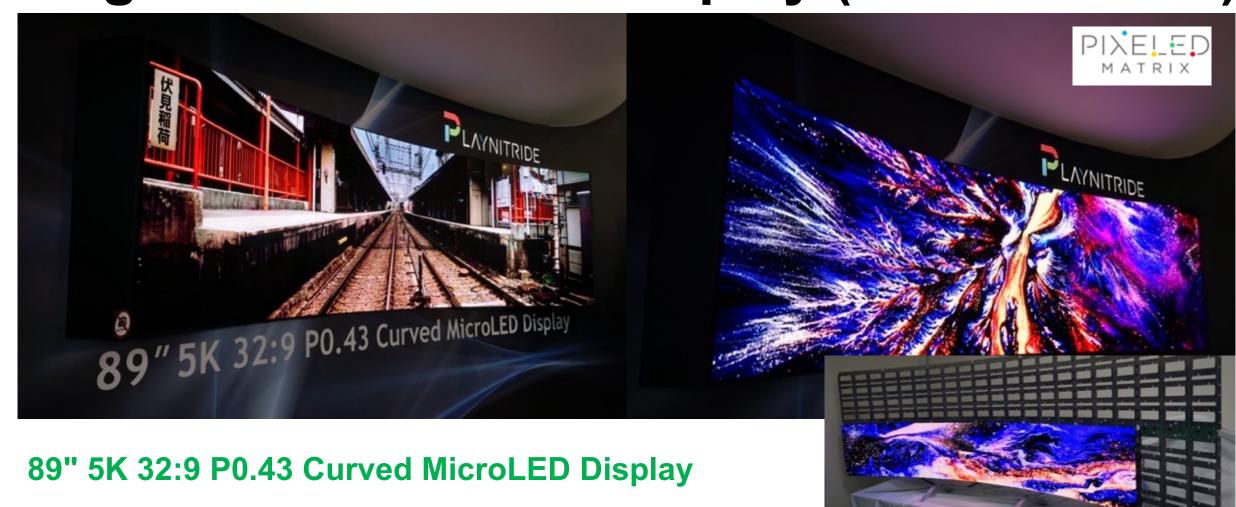


Samsung Electronics unveiled its newest MICRO LED TVs ahead of CES 2022.

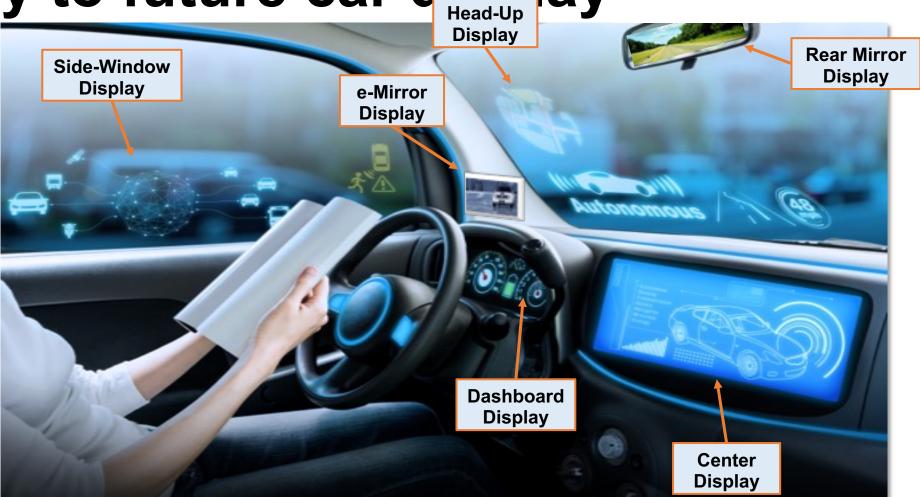
As Samsung's state-of-the-art display, MICRO LED offers a best-in-class picture quality thanks to 25 million micrometer-sized LEDs that individually produce light and color, creating an incredibly immersive experience through impressive depth, vibrant colors and a heightened level of clarity and contrast. At CES 2022, Samsung will unveil the MICRO LED in three different sizes - 110", 101" and 89".

In addition to the hardware innovations, the 2022 MICRO LED supports 20-bit greyscale depth. This means MICRO LED models can express every detail in a scene, offering the finest control with over 1 million steps of brightness and color levels, delivering a true HDR experience. It also expresses 100% of DCI and Adobe RGB color gamut, resulting in stunning, lifelike colors. Together with immersive design made possible by its 99.99% screen-to-body ratio, MICRO LED delivers revolutionary performance.

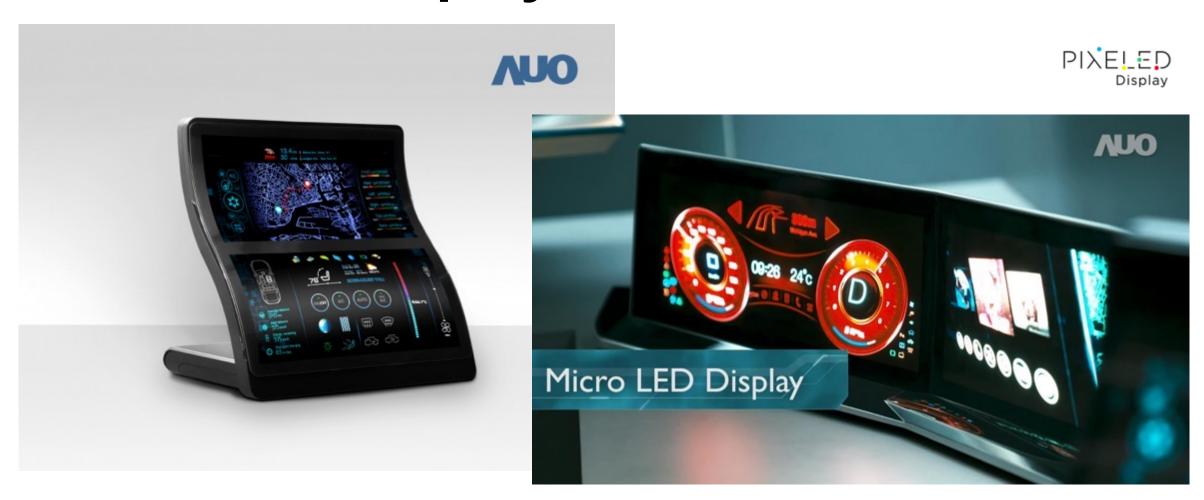
Large-size MicroLED Display (Modular PCB)



Transparent display technology is the key to future car display

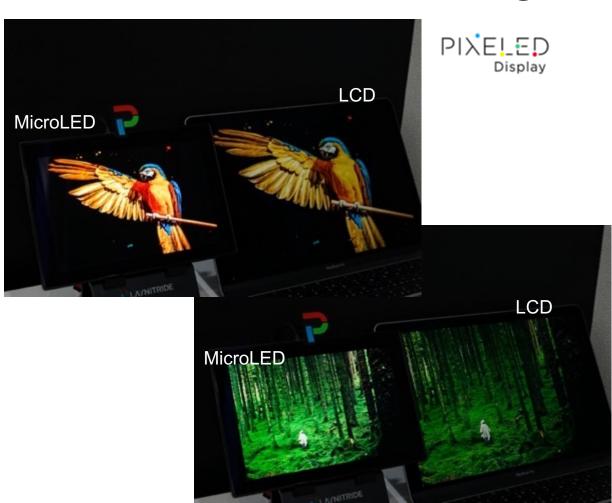


MicroLED Displays for Automotive



Transparent and HDR MicroLED Displays





MicroLED Displays for Automotive











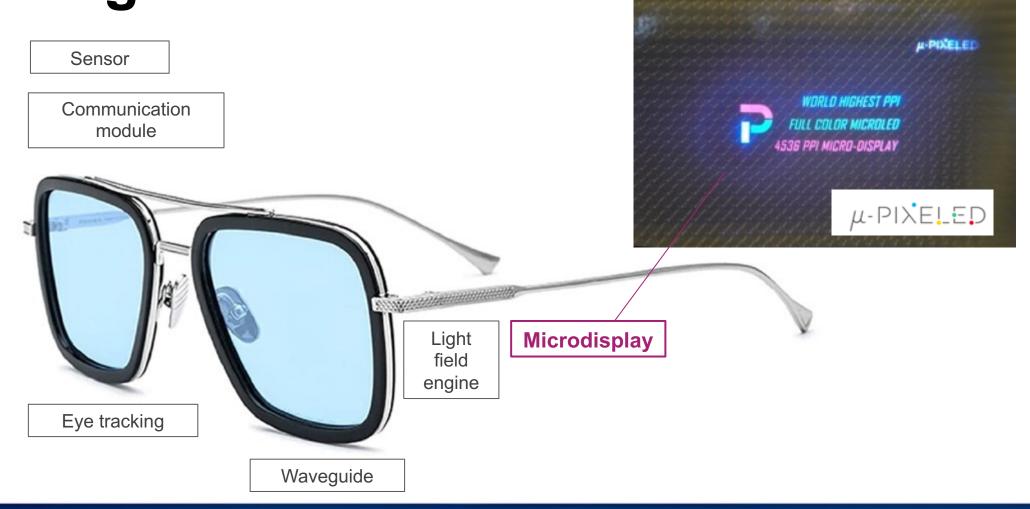
Wearable MicroLED Display





1.39" 338ppi MicroLED Circular Display

MicroLED micro-display is the key for AR glasses



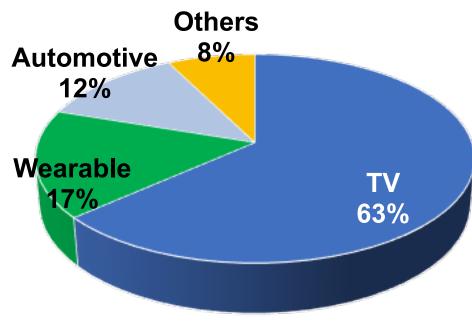
III.Operational Results and Overview

Categories of Customers and Applications 2020~2022 Revenue

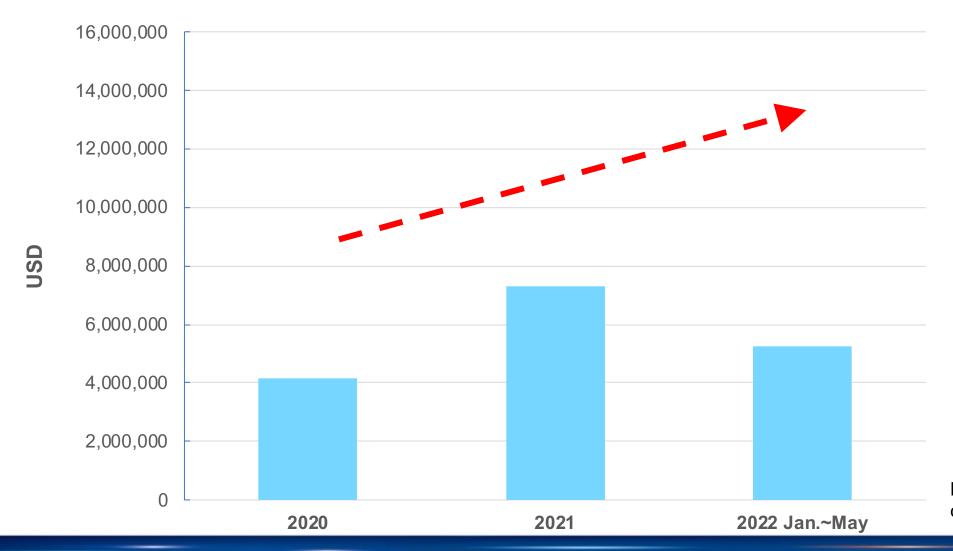
Categories of Customers and Applications



Applications

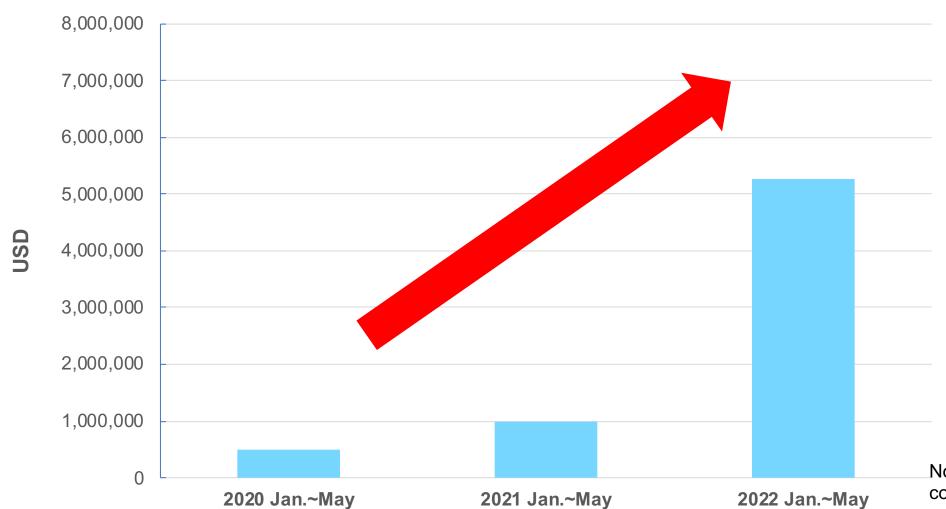


2020~2022 Revenue



Note: April/May 2022 is the company's self-assessment

2020~2022 (Jan. to May) YoY Revenue Comparison



Note: April/May 2022 is the company's self-assessment

IV.Market Overview

Market Trend

source: TrendForce

source: Omdia

Role of PlayNitride at MicroLED ecosystem

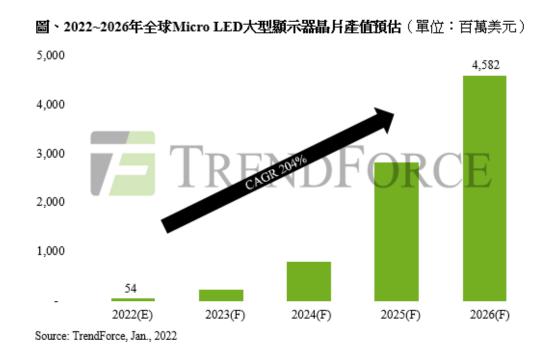
Market Trend (TrendForce)

TrendForce: Locked in the home theater and highend commercial display market, the output value of Micro LED large-scale display chips will reach 4.5 billion US dollars in 2026

19 January 2022

According to the latest research by TrendForce, Micro LED large-scale displays will enter the home theater level and highend commercial display market. It is estimated that the output value of Micro LED large-scale display chips will reach USD 54 million in 2022; it is expected to rise to USD 4.5 billion by 2026, with a CAGR 204%.

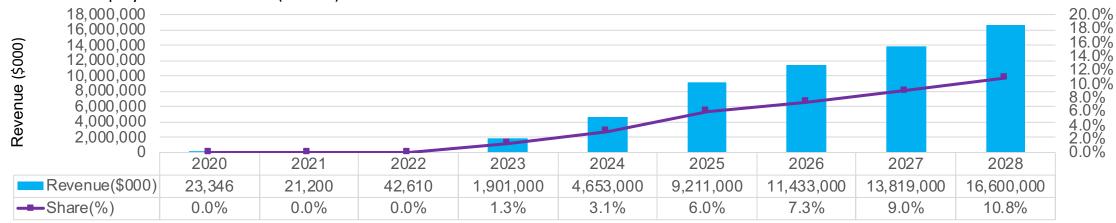
With the advancement of time, technical obstacles will be overcome one by one. The development of Micro LED large-scale displays will enter a peak period from 2026 to 2030, and the output value of Micro LED chips in a single year has the opportunity to reach tens of billions of dollars.



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Market Trend (Omdia)

Micro LED display revenue forecast (annual)



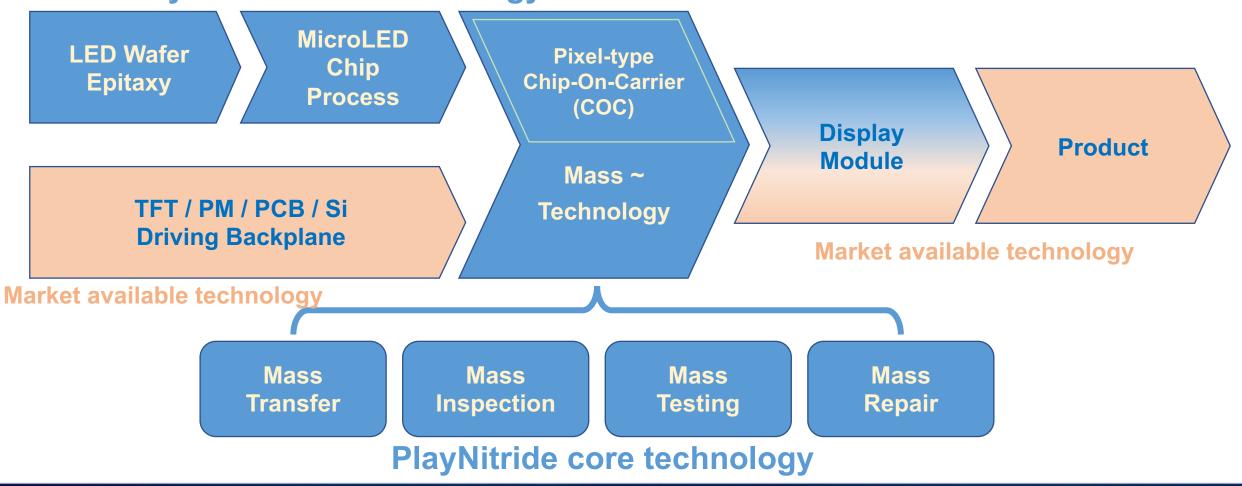
Source: Omdia

Annual revenue for micro LED displays was about \$21.2 million in 2021 and is expected to reach \$42.6 million in 2022. Revenue from micro LED displays will increase to \$16.6 billion in 2028 to account for 10.8% of the total FPD revenue, with a 159.1% CAGR during 2021–28.

Annual shipments of micro LED displays were about 0.12 thousand units in 2021 and are expected to reach 40.4 thousand units in 2022. Shipments of micro LED displays will increase to 15.5 million units in 2028 to account for 0.4% of total FPD shipments, with a 439.9% CAGR during 2021–28.

Role of PlayNitride at MicroLED ecosystem

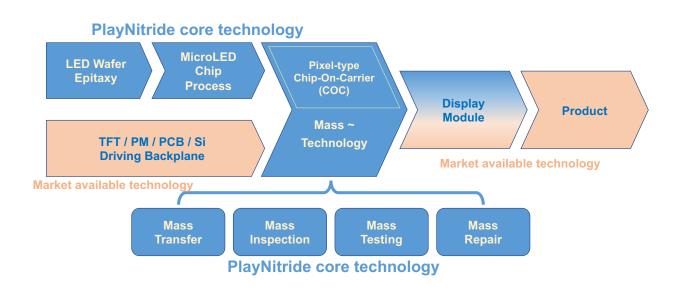
PlayNitride core technology



V. Competitive Advantage

Long-term competitive advantage and differentiation Technical advantages

Long-term competitive advantage and differentiation



- PlayNitride is one of the few companies in the market that owns and integrates the key technologies of MicroLED displays → The company has complete technical know-how to quickly optimize production and solve new technical challenges
- In each technical link, PlayNitride has a strong team to innovate and develop
- PlayNitride is in a leading position in the market, and widely deploys patents and establishes know-how

Technical advantages

- High uniformity 6-inch R/G/B LED wafer
 - Uniform brightness across wavelengths, no need for binning
- Industry-leading inspection and testing technology

- High yield R/G/B MicroLED chips
 - Wafer yield > 99.5%
 - LED wafer utilization > 80%

- Industry-leading mass transfer technology
 - Self-made automatic mass transfer equipment
 - Massive addressing repair technology

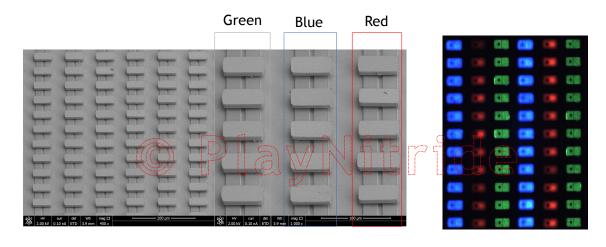
VI.R&D Overview

Core of R&D

Patent advantages and portfolio

Core of R&D

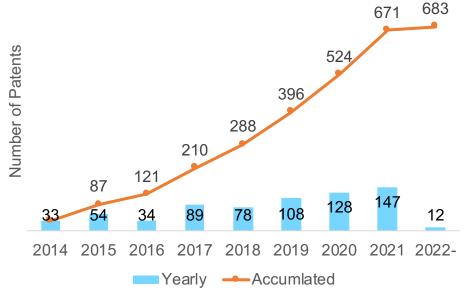
 The research and development mainly focus on high-uniformity LED wafers, high-yield R/G/B MicroLED chips, high-precision MicroLED inspection technology, and highyield mass transfer technology.

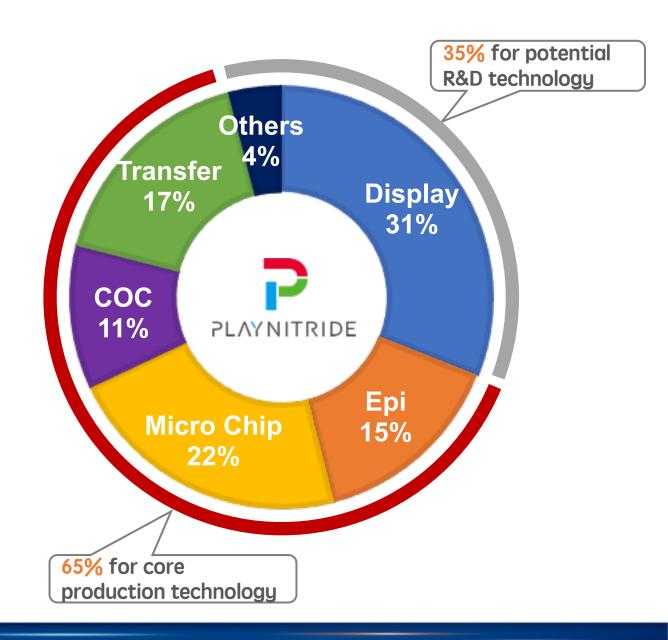


Provide customers with self-developed
MicroLED one-stop solutions. Currently, the
company has cooperated with a number of
industry-leading panel manufacturers and can
provide various MicroLED chips (including
ultra-micro, tiling, highly transparent, or flexible)
to other customers with different applications
to meet the design needs.

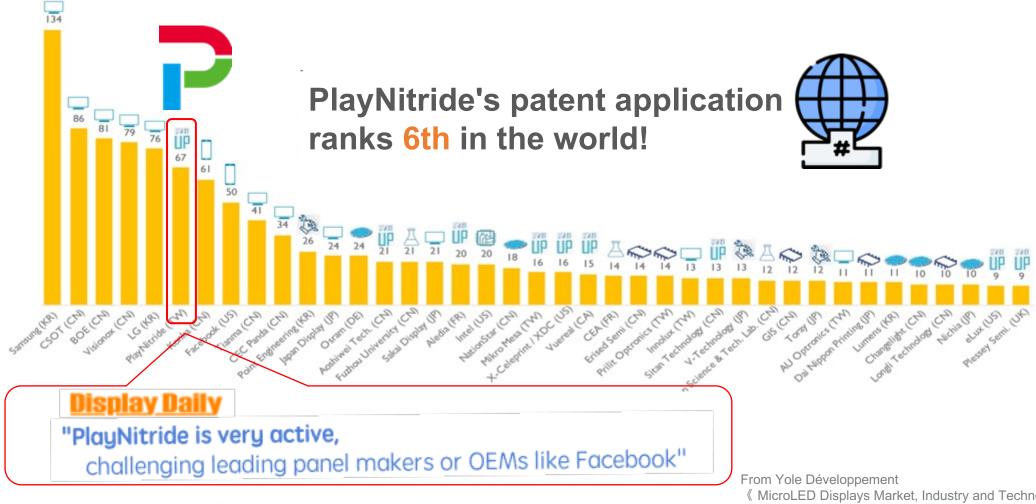
Patent Portfolio

PlayNitride total patent applications reached 683!
Covering the entire
MicroLED ecosystem!





Global Patent Ranking



VII.Future Development

後續產品佈局方向

Future Product Portfolio



Pixel type Chip-on-Carrier of large displays

•MP expected in 2022



Pixel type Chip-on-Carrier of commercial displays

•Pilot Run expected in 2022



Pixel type Chip-on-Carrier of automotive displays

•Sample expected in 2022



Flexible mid-size display for automotive

Sample expected in 2022



Wearable display

Sample expected in 2022



Micro-display for AR/VR

•Sample expected in 2022

Corporate Governance Operation & Public Welfare Participation

Corporate Governance Operation

- There are eight directors (including three independent directors and one female director), and there should be at least five directors.
- Formulate and implement the "Code of Practice on Corporate Governance"
- Take out director liability insurance
- Financial statements approved by the Audit Committee

Strengthen the functions of the board of directors

Enhance the sustainable value of enterprises

Improve information transparency

Promote sustainable business

- Set up a "Sustainable Development Committee" to plan and implement sustainable development strategies
- Compilation of Corporate Social Responsibility Report (SASB Report) in June this year

- Established a Greenhouse Gas Inventory and Reduction Management Team
- Formulate and implement the "Code of Practice for Corporate Sustainability"
- Disclose the identities of identified stakeholders, issues of concern, communication channels and response methods

Implement corporate social responsibility

Strengthen stakeholder communication

Create a good interaction channel

 Set up a spokesperson system and establish a communication method for stakeholders on the company's website

Public Welfare Participation

Sponsor the San Franciscan United Way Garden Party





PlayNitride Cleansing Powerful & Hsinchu City Salutes the Sea – Autumn Beach Cleaning Activities

2020 PlayNitride responds to the "Earth Hour 60+ / Earth Hour" event





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