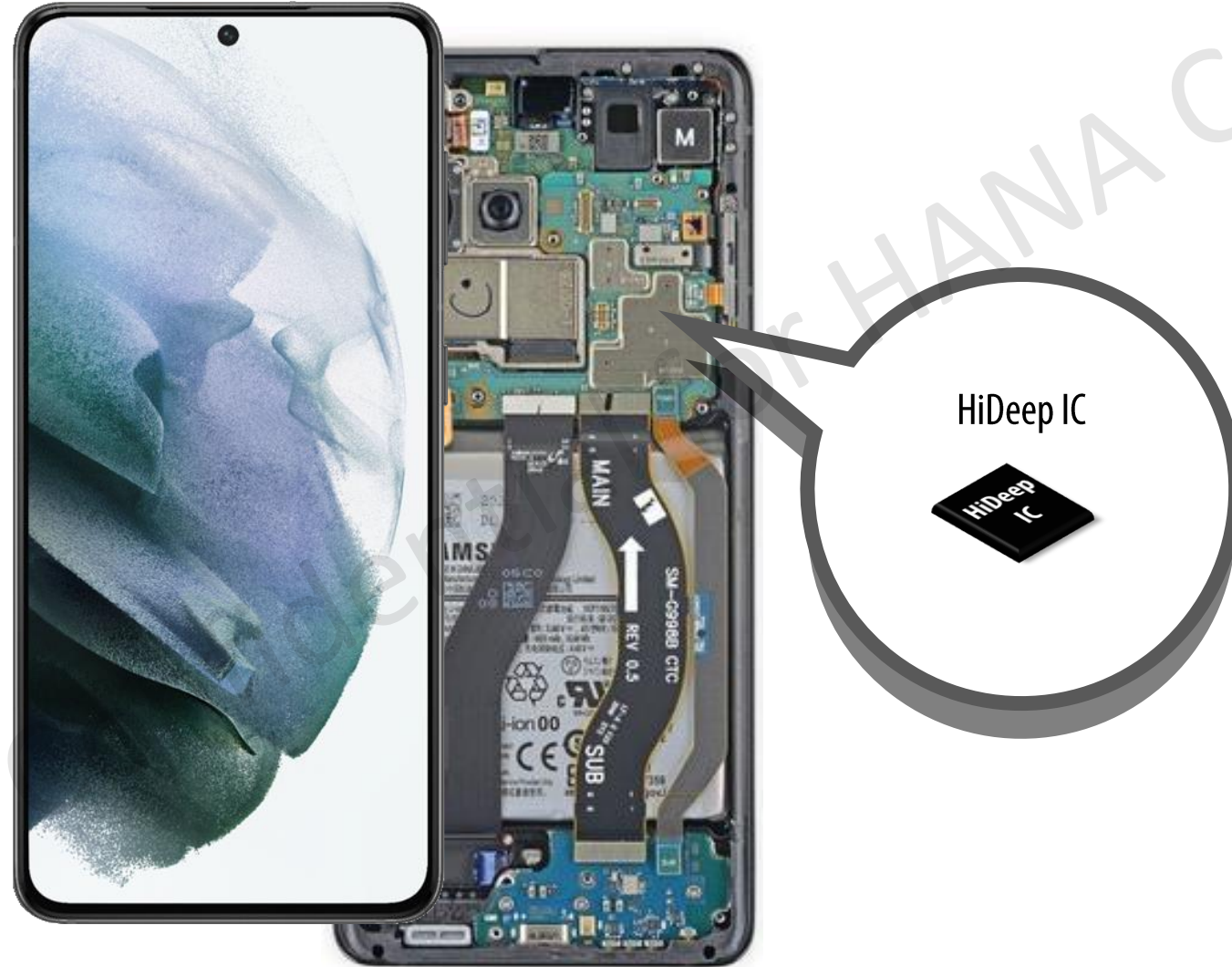


# THE ONLY TOTAL SOLUTION PROVIDER OF INPUT INTERFACES FOR FLEXIBLE OLED DISPLAYS



## At a Glance

# HiDeep Target Market: **A Technology** in Mobile Devices



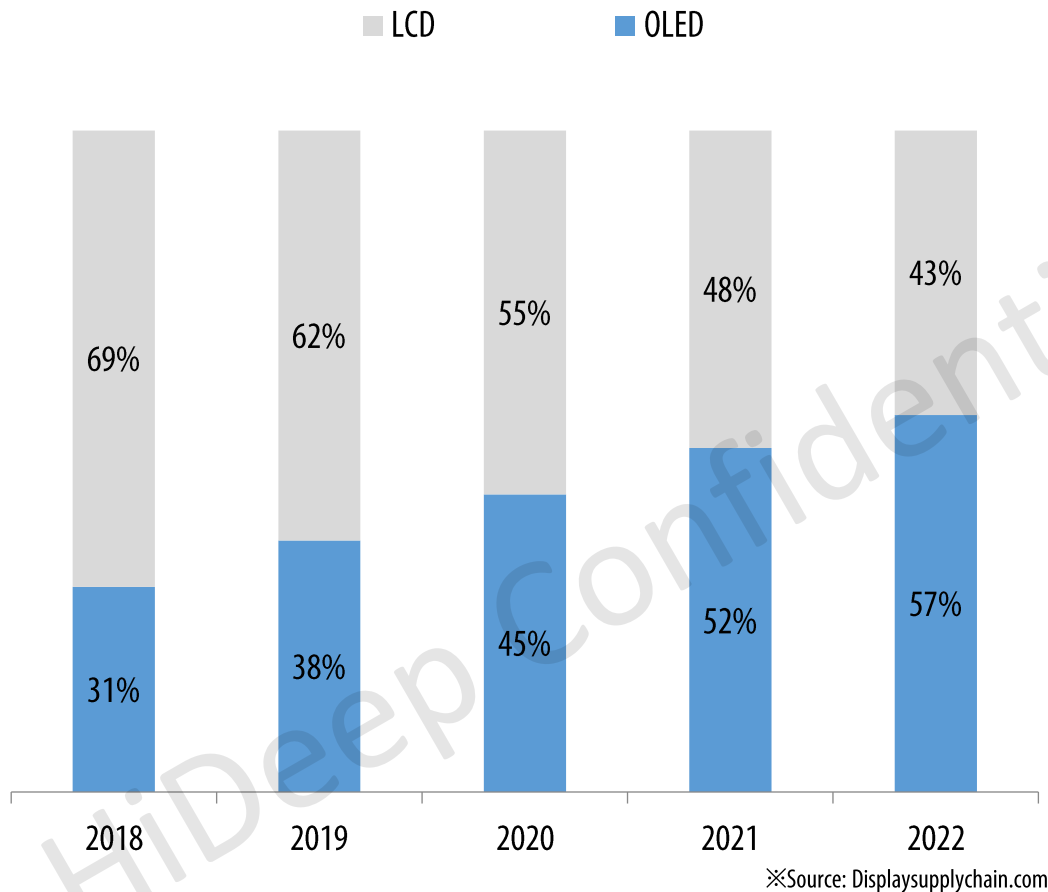
# HiDeep Target Technology: **Stylus** for Mobile Devices



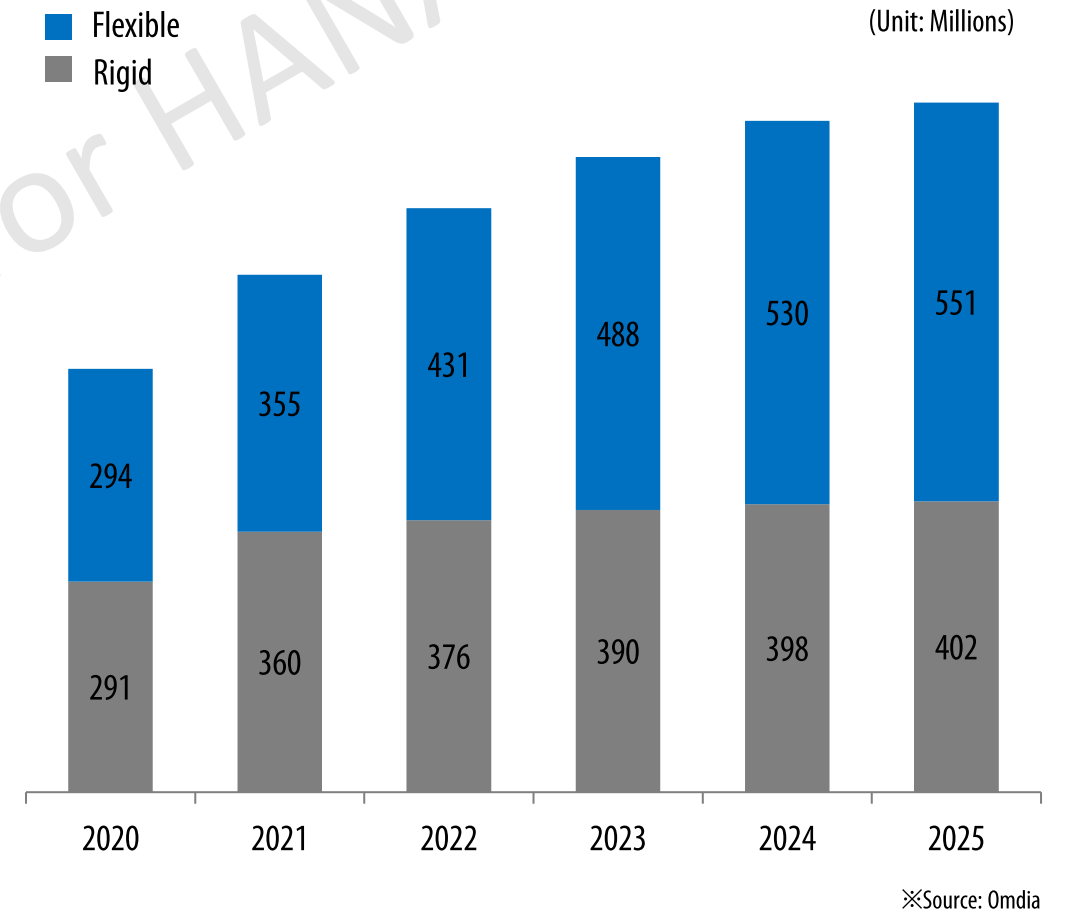
## Chapter 1. Market Trend

# The Growth of OLED Display Market

The growing OLED penetration rate for mobile applications



The growing OLED shipment





# Super Retina OLED display for iPhone





## Foldable OLED Display





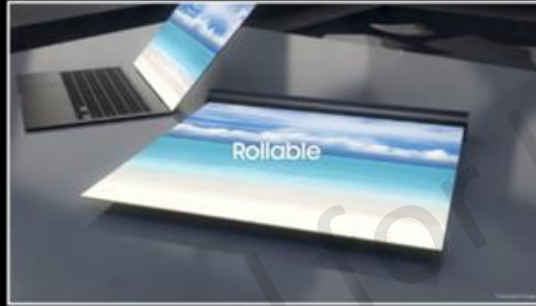
# [SID 2021 Keynote Speech] "The Metaverse and the Great Future of Display"

## Form Factor

**Foldable/Rollable/Slidable/Stretchable, Tiled**



**Foldable**



**Rollable**



**Slidable**



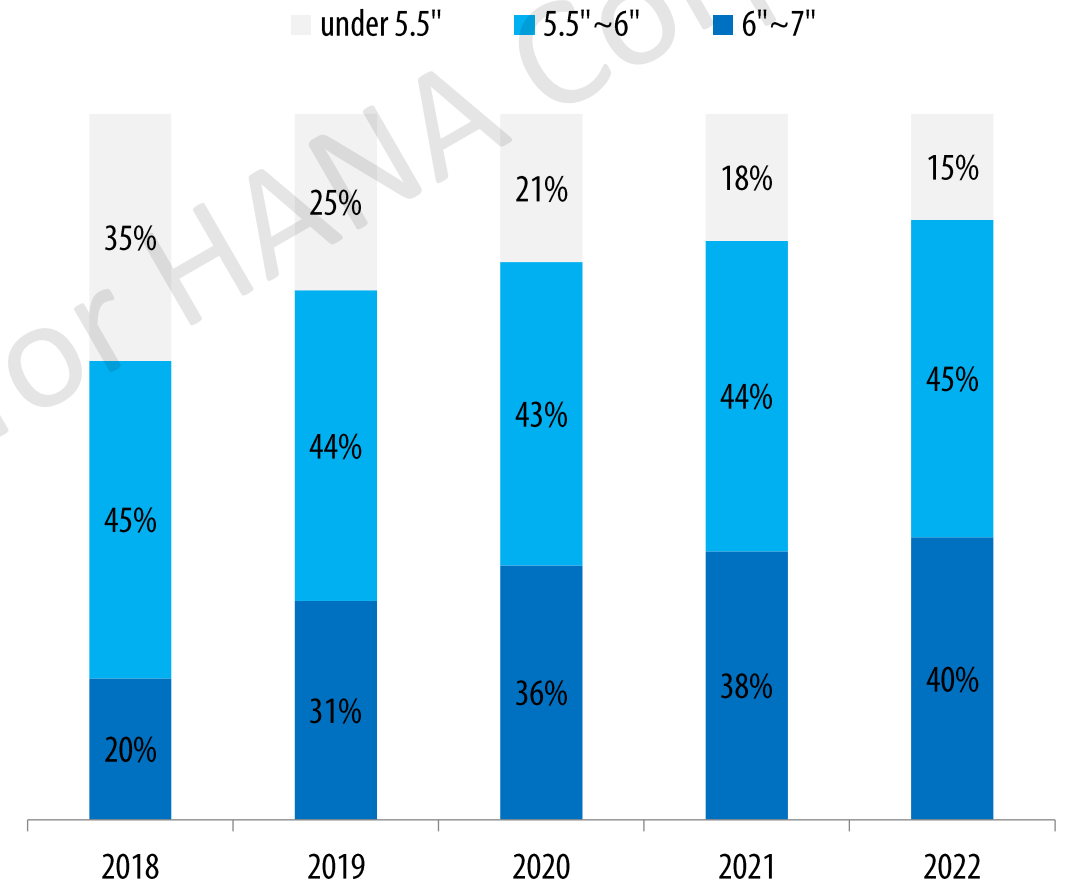
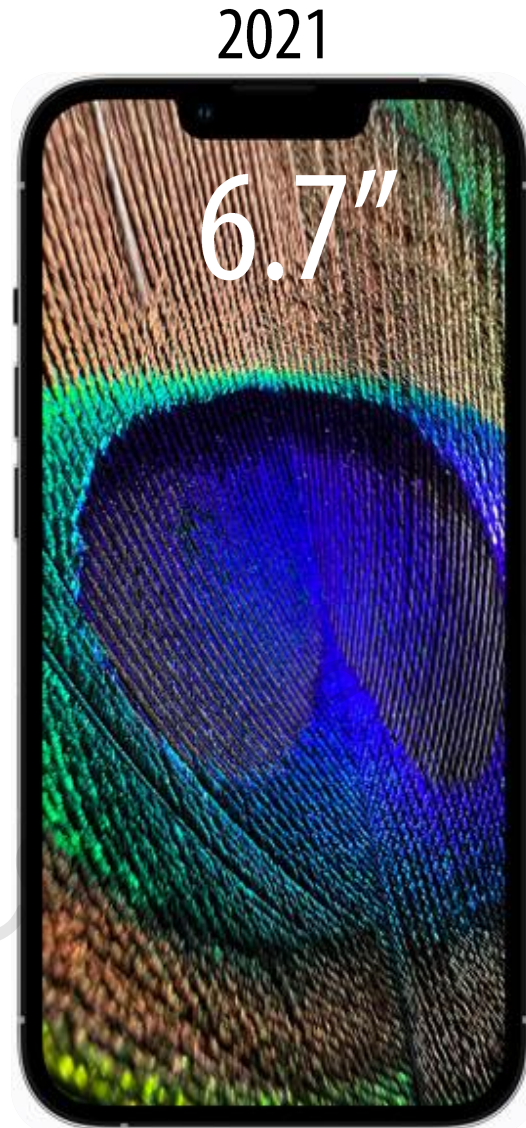
**Stretchable**



**Tiled**

<https://www.youtube.com/watch?v=rrJSQcLS1Ko>

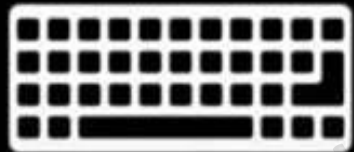
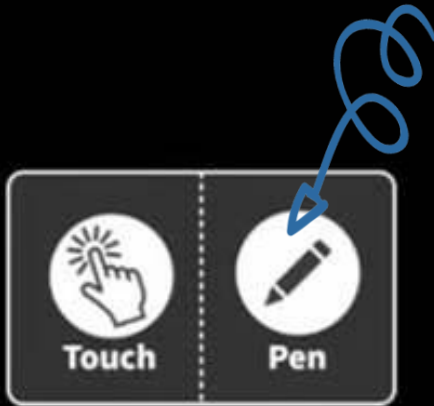
# The Larger Screen Size of Smartphones



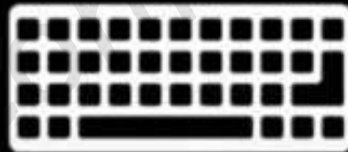
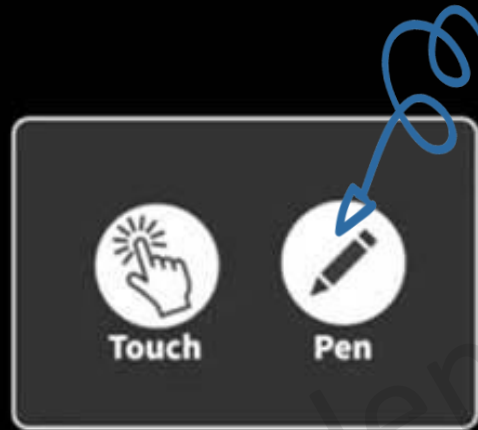
※Source: Statista

# [SID 2021 Keynote Speech] "The Metaverse and the Great Future of Display"

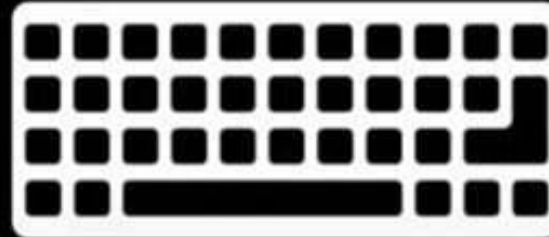
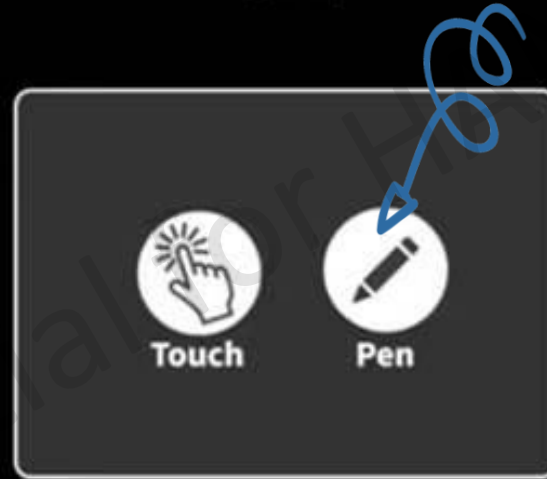
**Foldable Phone**



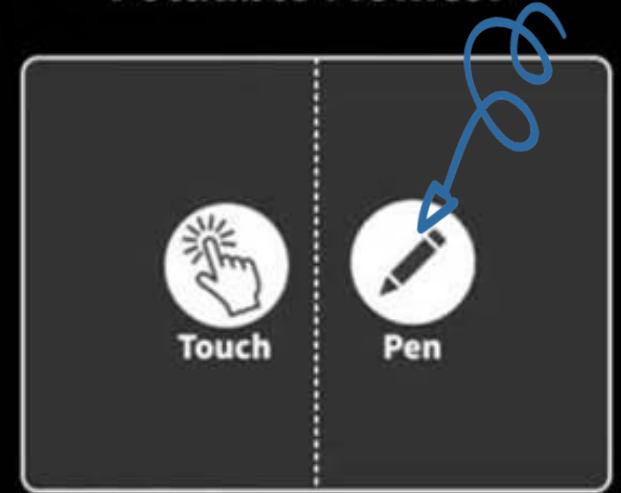
**Tablet**



**Laptop**

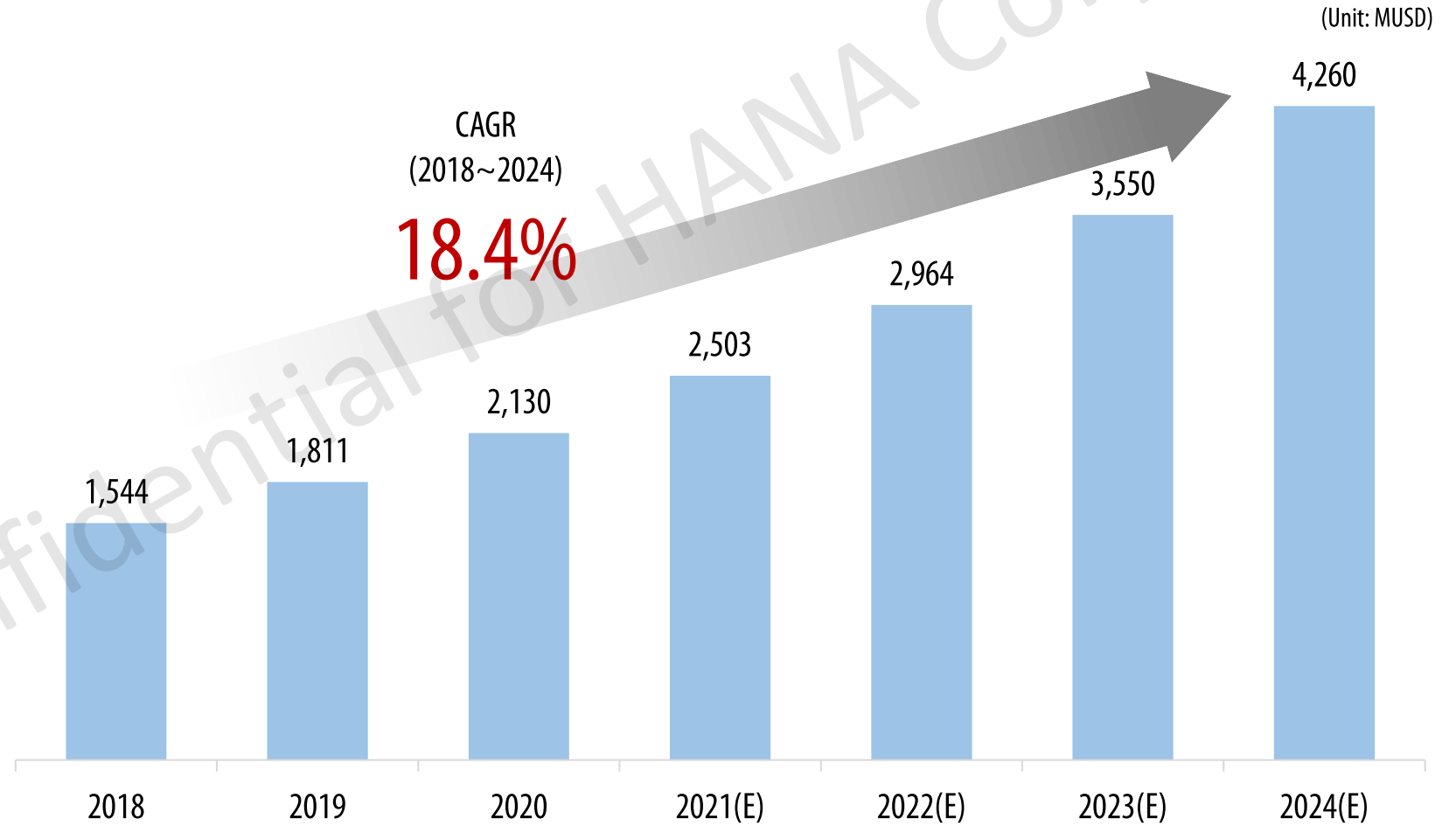


**Foldable Monitor**



<https://www.youtube.com/watch?v=rrJSQcLS1Ko>

# Stylus Market Prospect

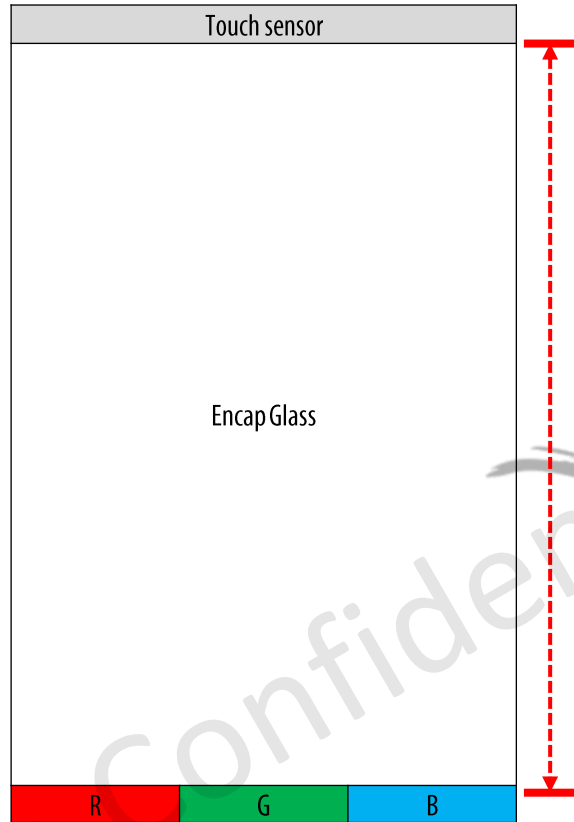


※Source: Statista 2021

## Chapter 2. HiDeep's Key Technology & Points

# Challenges of Flexible OLED

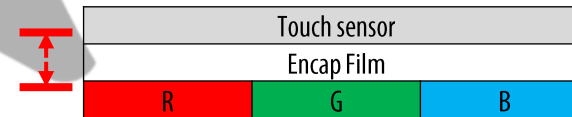
Display noise  
**x10**



Rigid OLED Display

Distance from touch  
sensor to display

$\frac{1}{20}$

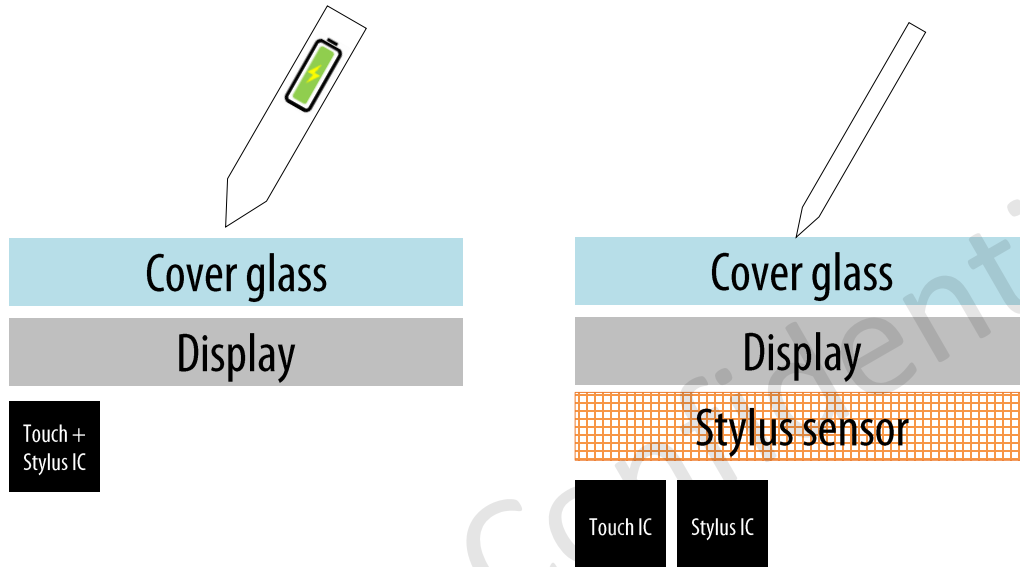


Flexible OLED Display

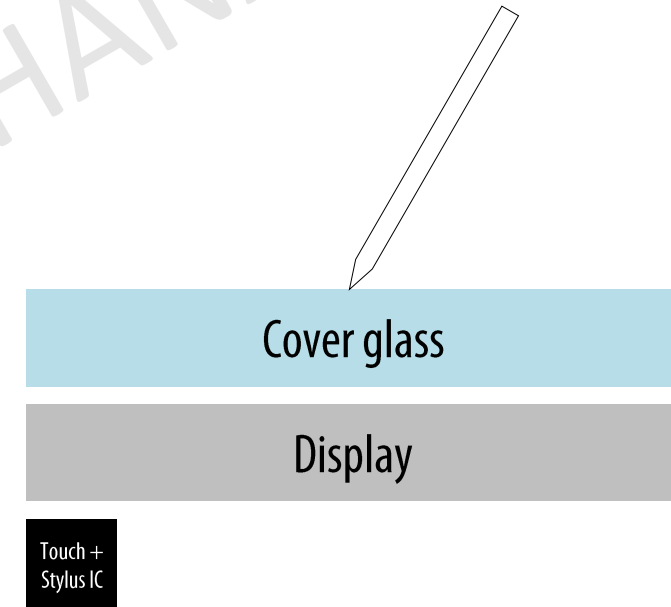


# Flexible OLED Key Technology: HiDeep Stylus

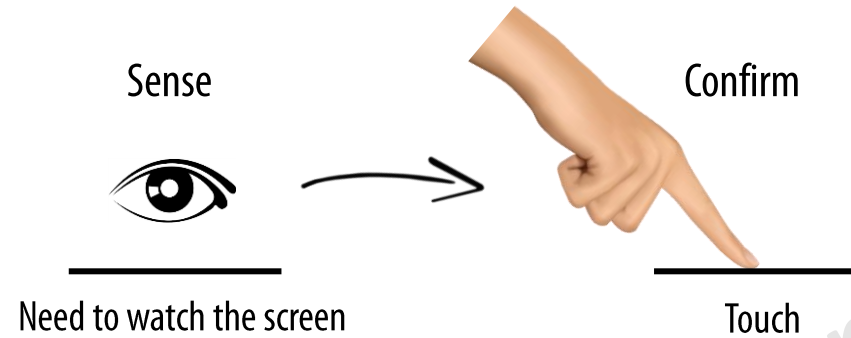
## The Market Solution



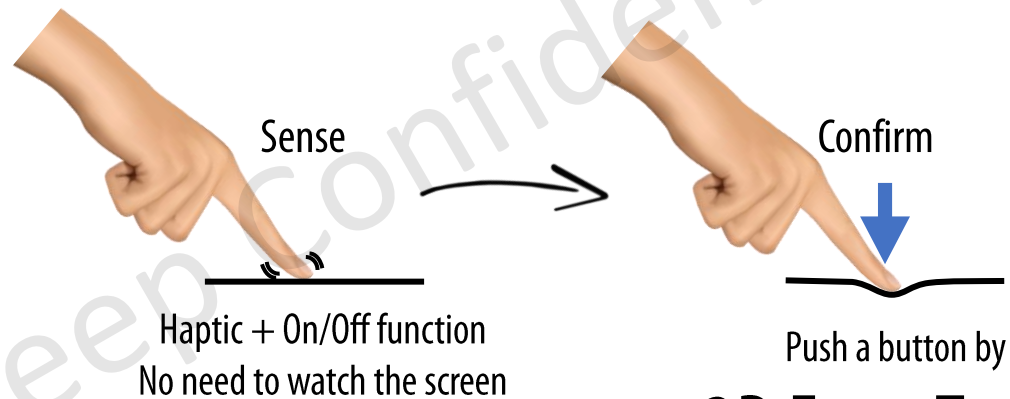
## HiDeep Stylus Solution



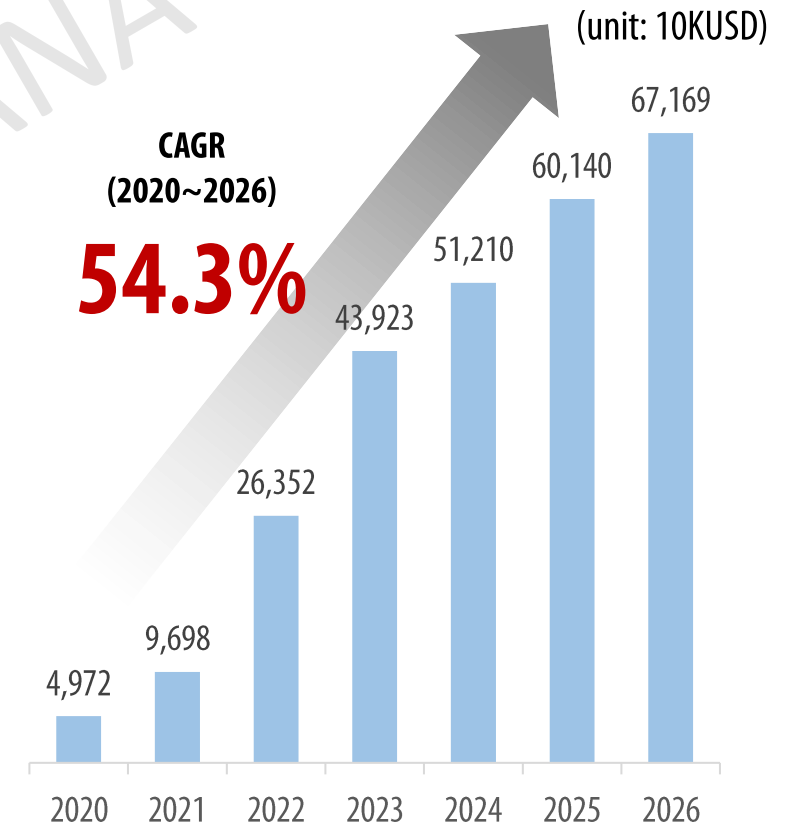
# The Automotive OLED Market Opportunity: 3D Force Touch



## ➡ HiDeep 3D Force Touch Solution



## Global automotive OLED market forecast



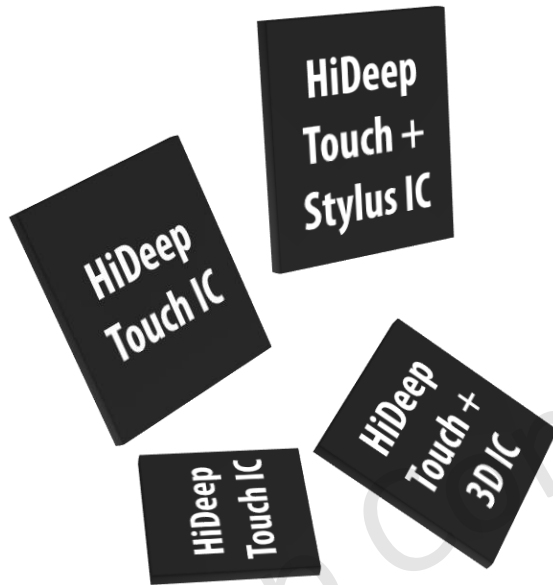
※source: Omdia

# A Provider of IC, Stylus, Algorithms and Sensors for Flexible OLED Displays



HiDeep, Inc.

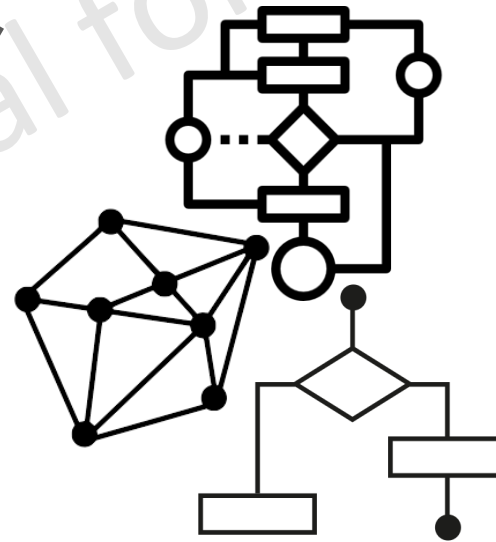
Touch IC



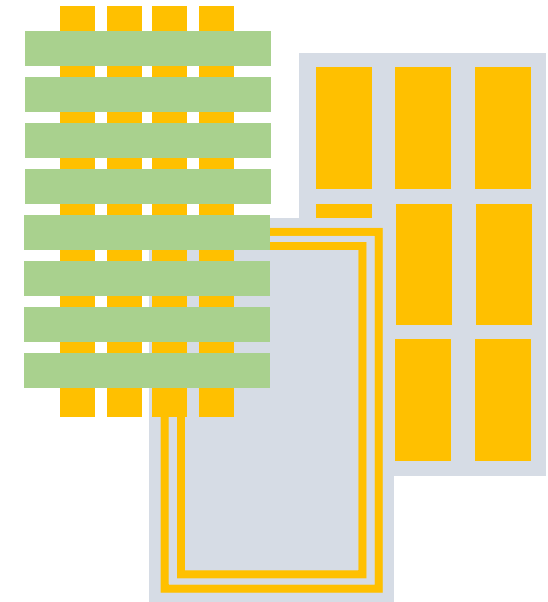
Stylus



Algorithm



Sensors



## Chapter 3. About HiDeep

# CEO's Profile



**Brian Ko, Ph.D.**  
Chief Executive Officer

Brian Ko, Ph.D. founded HiDeep in April 2010 as chief executive officer, responsible for leading the company's **strategic vision**. He brings to HiDeep more than **22 years** of experience building successful technology businesses. Prior to founding HiDeep, he was a founder of Integrant Technologies Inc. established in 2000, where he predicted that mobile TV broadcasting services would be launched and prepared for developing the world's first RF CMOS mobile TV tuner ICs including Satellite/Terrestrial DMB, ISDB-T, DVB-H and CMMB.

These innovative CMOS tuner products have been delivered over **40 million units** worldwide. He also made the successful investment promotion of \$20 million and revenue of **\$40 million** in 6 years with team building up from 6 to over 90 employees.

**Integrant Technologies** was acquired by **Analog Devices** by **\$160 million** on Jun. 2006, where he served as HSSP (High Speed Signal Processing) product line director for the product development and strategic planning. Prior to founding Integrant Technologies, he was a senior RF (Radio Frequency) analog circuit design engineer for CDMA transceiver at Samsung Electronics.

Brian holds M.S. and Ph.D. in electrical engineering from KAIST.



# Business Model Diversification: Business Area

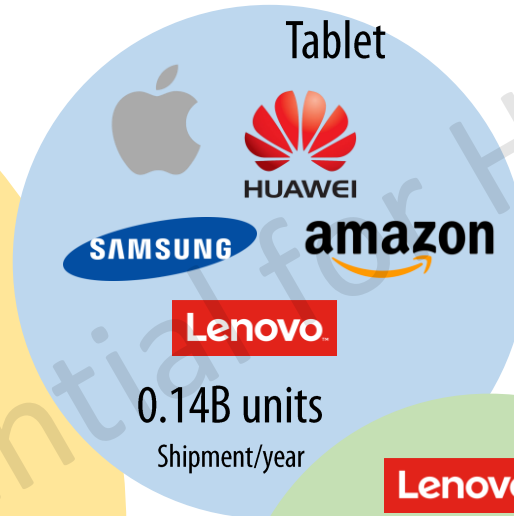
## Business market

Smartphone



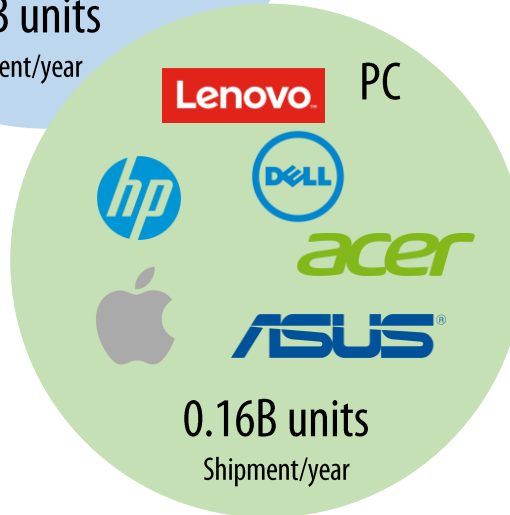
1.4B units  
Shipment/year

Tablet



0.14B units  
Shipment/year

PC



0.16B units  
Shipment/year

## Consumer market





# Shareholder's

Shareholder's Table (2023-3-31)

Name of Owner	Shares	%
Largest shareholder(CEO) & Related persons	67,924,984	49.4%
SKYLAKE Investment Co.	10,815,424	7.9%
WI-HD INVESTMENT, LLC & CHINA WALDEN	3,943,256	2.9%
Others	54,773,688	39.8%
<b>Total</b>	<b>137,457,352</b>	<b>100.0%</b>

Lock-Up

Name of Owner	Shares	%	Lock-Up Period
Largest shareholder(CEO) & Related persons	61,210,186	44.5%	Until May 11, 2025
	5,938,916	4.3%	Until May 11, 2023
Other	6,453,279	4.7%	Until May 11, 2023
<b>Total</b>	<b>73,602,381</b>	<b>53.6%</b>	

# Finance

## Balance Sheet

(Unit: MKRW)

Description	2021	2022	2023. 1Q
Current assets	9,845	32,255	30,718
Non-current assets	4,780	5,891	5,794
<b>Total assets</b>	<b>14,625</b>	<b>38,146</b>	<b>36,512</b>
Current liabilities	6,210	6,318	4,667
Non-current liabilities	225	13,621	13,792
<b>Total liabilities</b>	<b>6,435</b>	<b>19,939</b>	<b>18,459</b>
Capital	2,246	13,746	13,746
Capital surplus	52,040	57,802	57,802
Other equity	3,013	2,672	2,956
Deficits	-49,109	-56,012	-56,451
<b>Total equity</b>	<b>8,190</b>	<b>18,207</b>	<b>18,053</b>

## Income Statement

(Unit: MKRW)

Description	2021	2022	2023. 1Q
<b>Revenue</b>	<b>13,309</b>	<b>18,145</b>	<b>4,411</b>
Cost of revenue	8,444	11,925	2,297
Gross margin	4,865	6,221	2,114
Operating expenses	8,628	8,492	2,400
<b>Operating Income</b>	<b>-3,762</b>	<b>-2,272</b>	<b>-287</b>
Non-operating income	267	959	317
Non-operating expense	959	6,199	468
<b>Income before income taxes</b>	<b>-4,454</b>	<b>-7,511</b>	<b>-438</b>
Income taxes	-8	-528	-
<b>Net income</b>	<b>-4,446</b>	<b>-6,983</b>	<b>-438</b>

※ The table above shows a condensed financial statements in accordance with IFRS.