

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

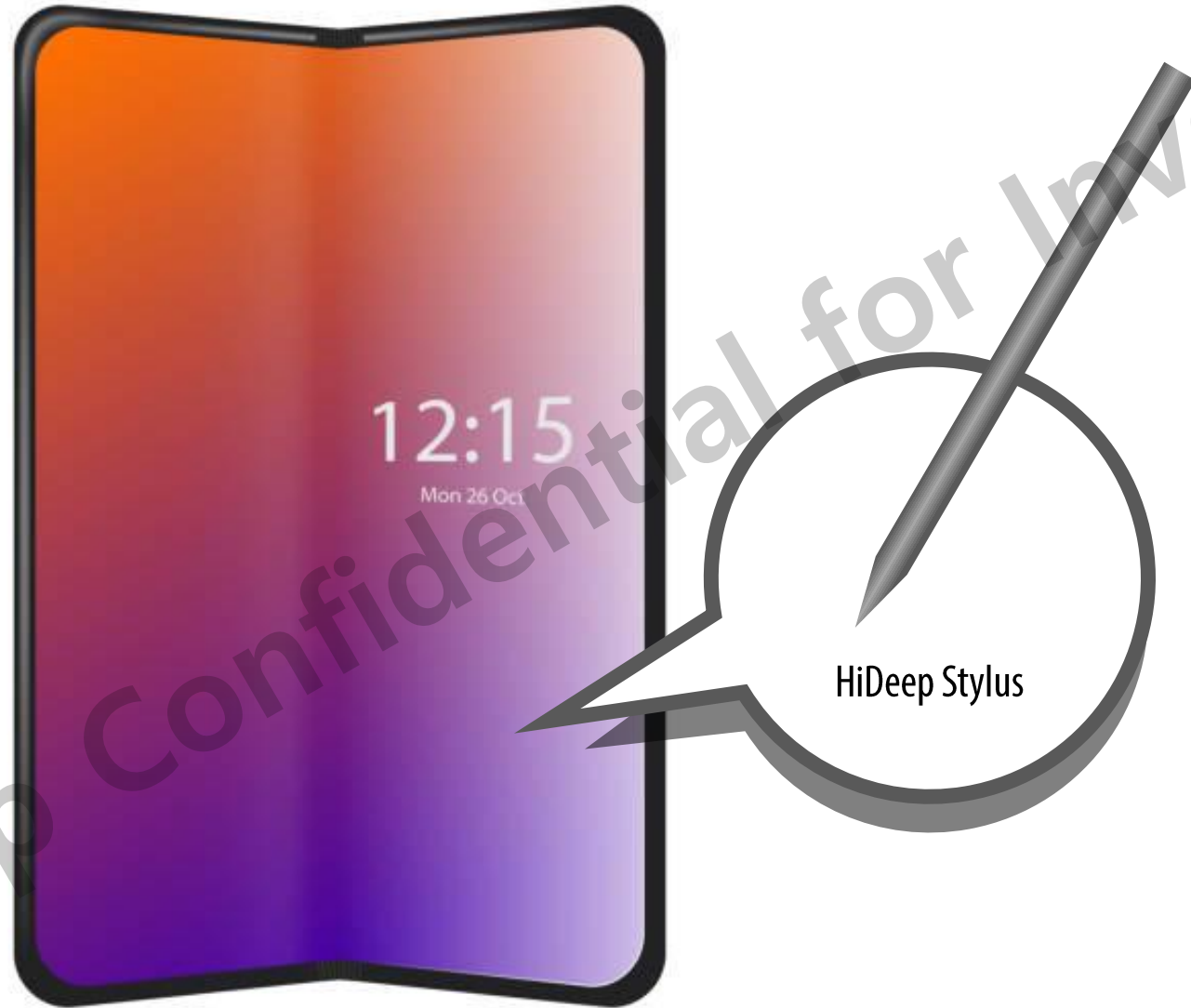


At a Glance

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



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



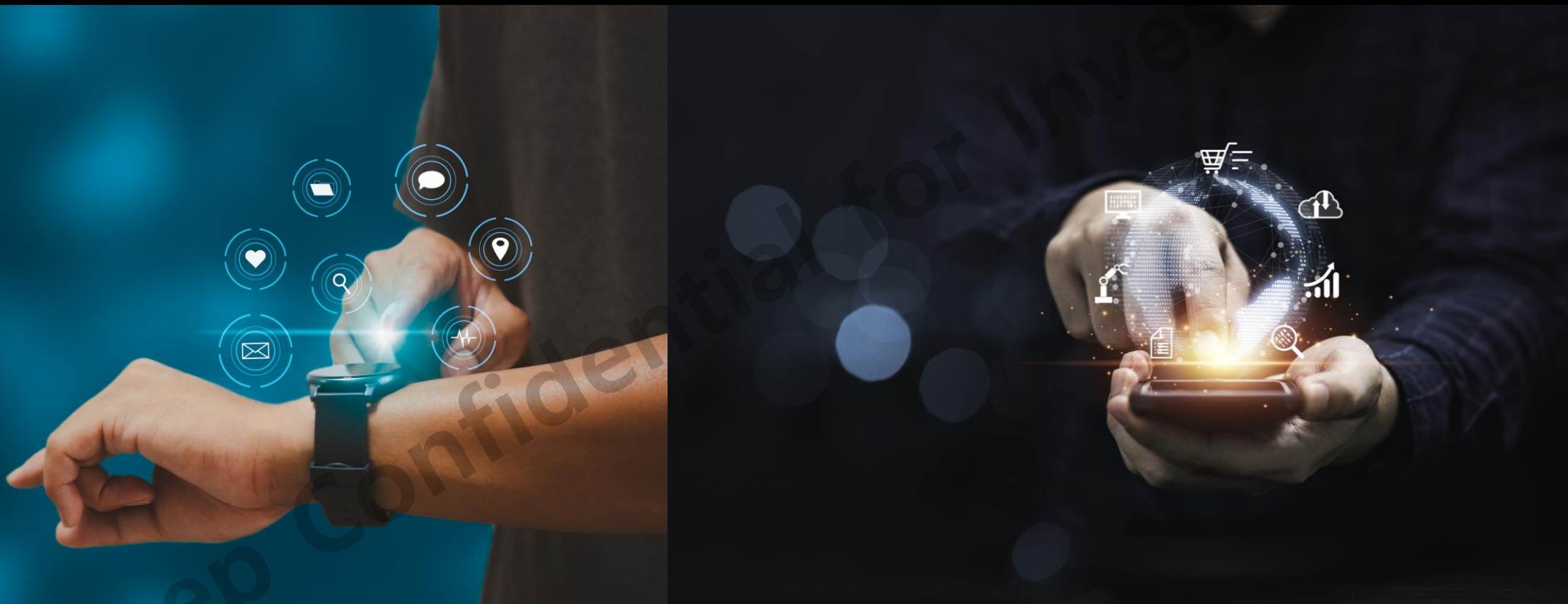
Digital Transformation

Mobile Platforms

Flexible OLED Displays

Input Interfaces





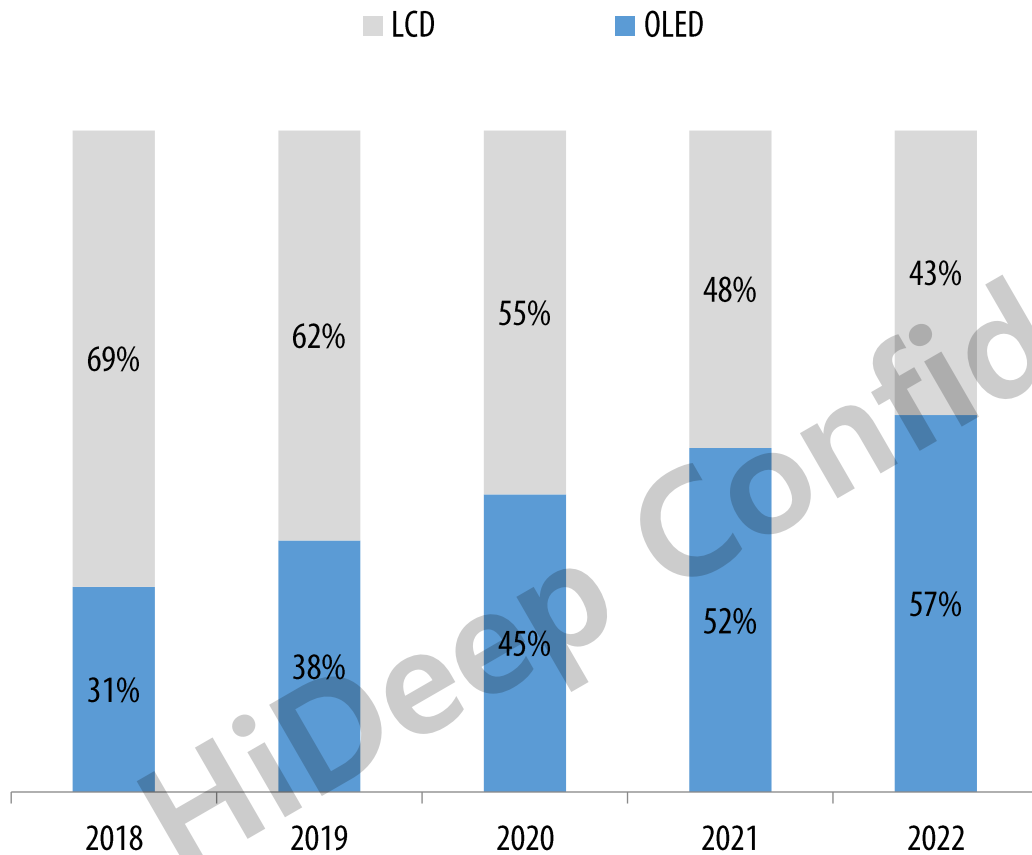
THE ONLY TOTAL SOLUTION PROVIDER OF INPUT INTERFACES
FOR FLEXIBLE OLED DISPLAYS

HiDeep Confidential

Chapter 1. Market Trend

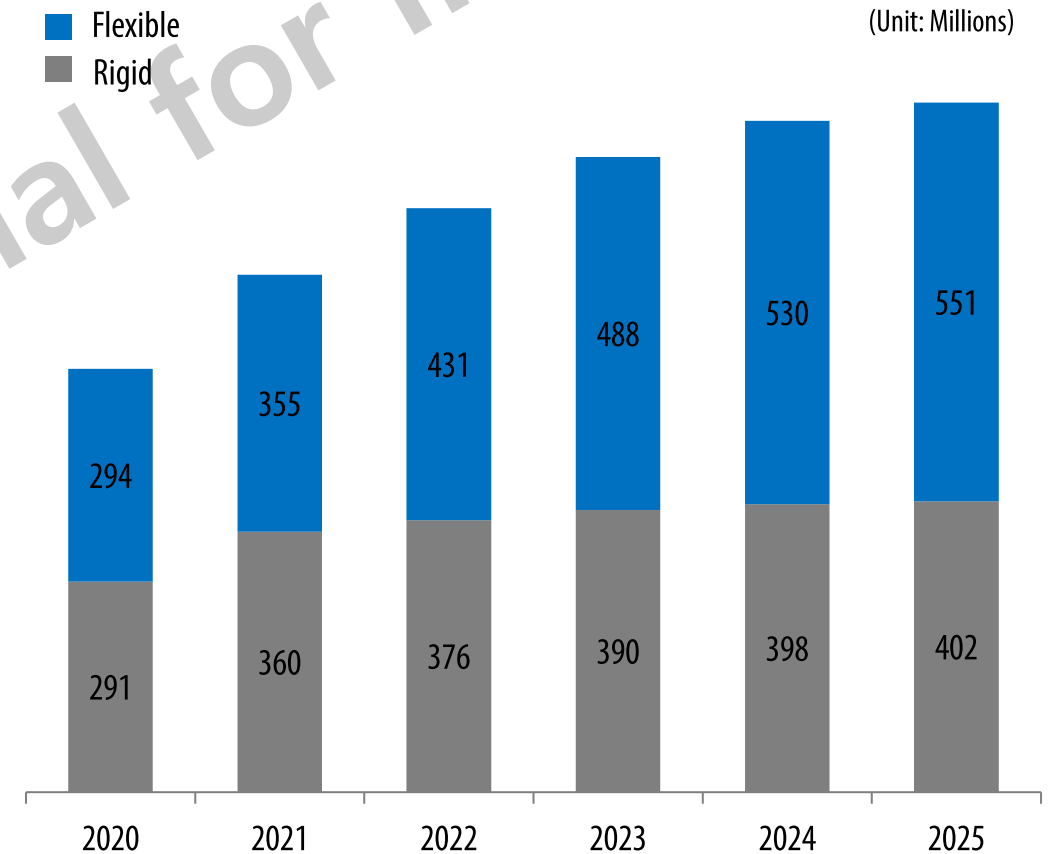
The Growth of OLED Display Market

The growing OLED penetration rate for mobile applications



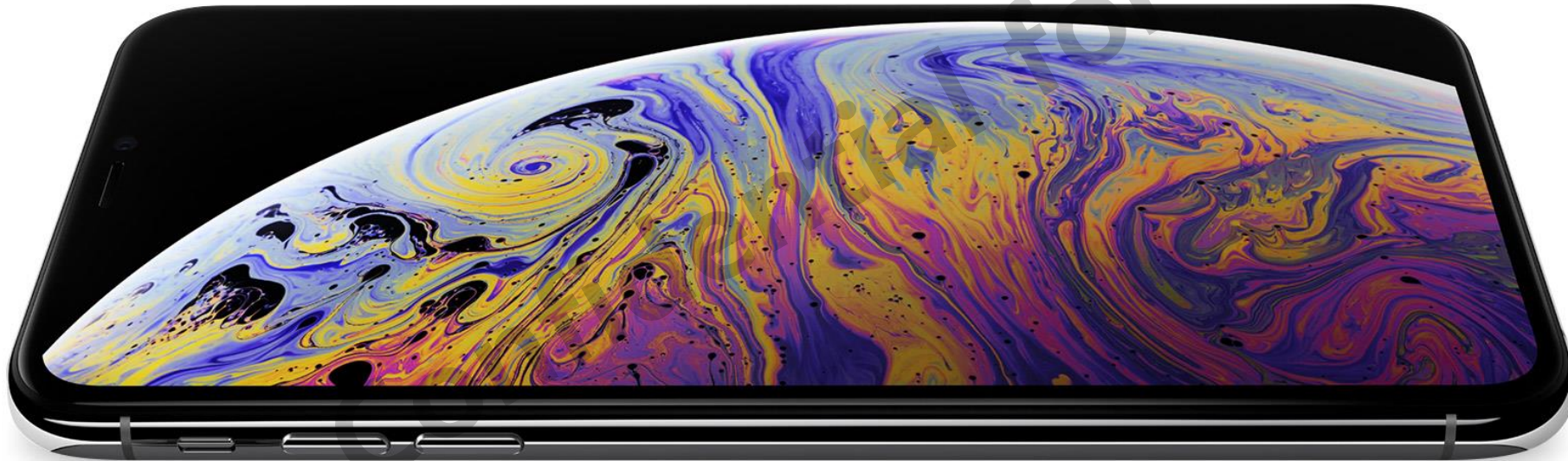
※Source: Displaysupplychain.com

The growing OLED shipment



※Source: Omdia

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



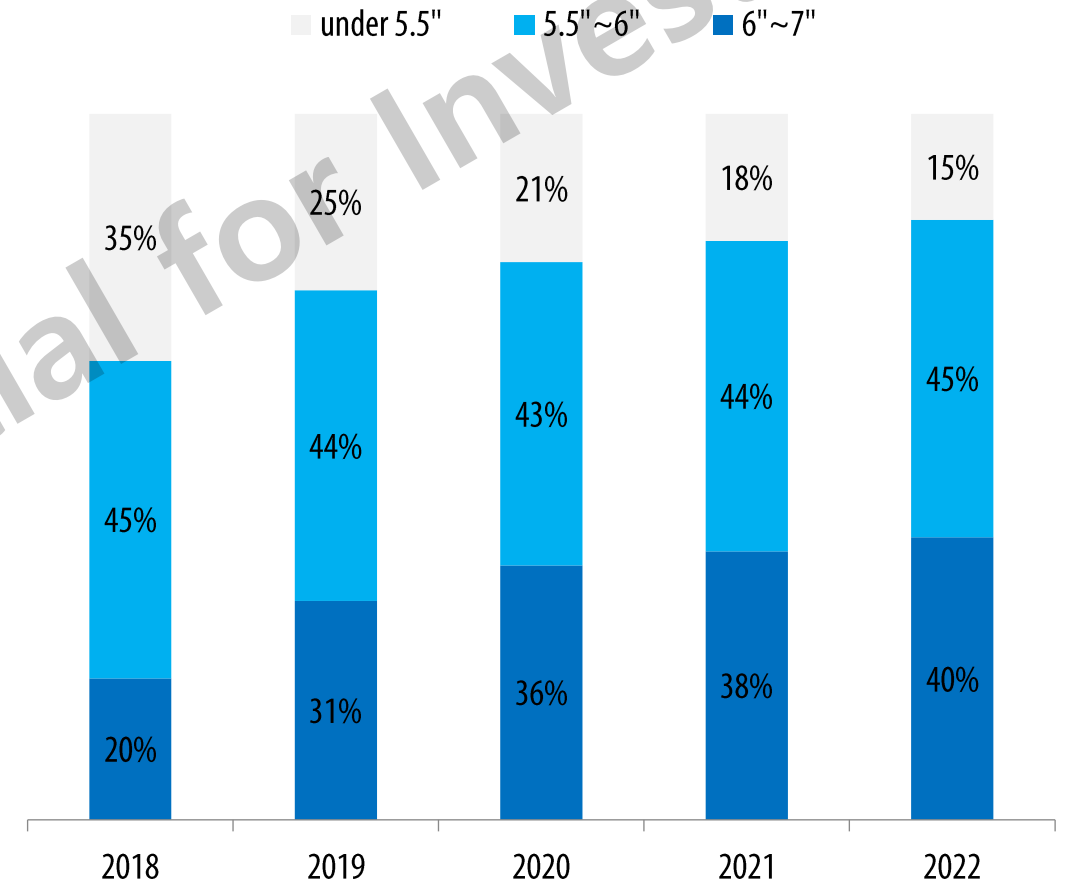
Stretchable



Tiled

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

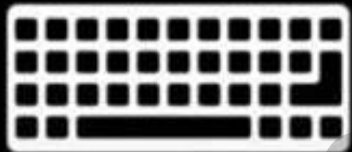
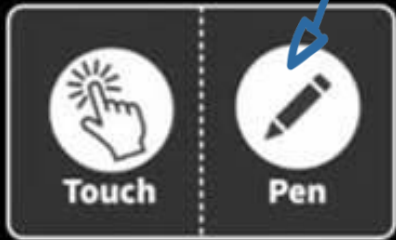
The Larger Screen Size of Smartphones



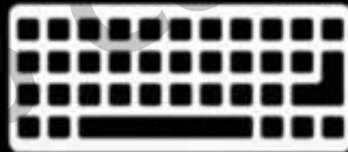
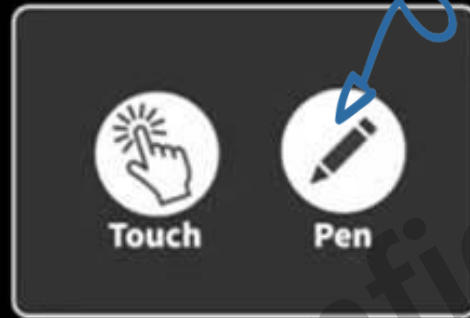
※Source: Statista

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

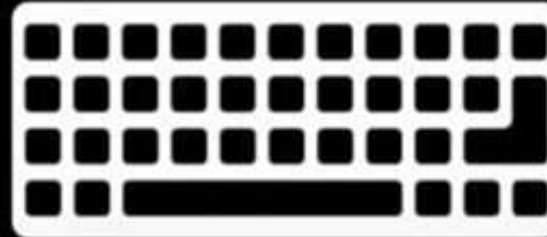
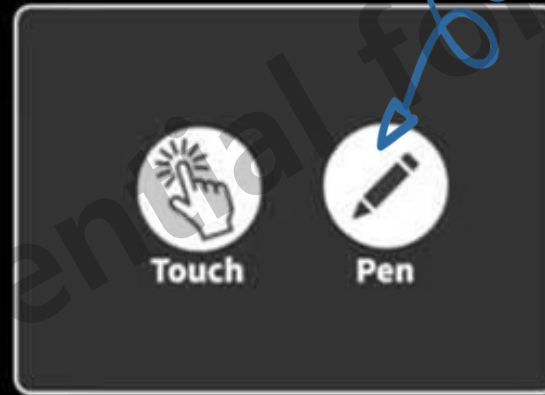
Foldable Phone



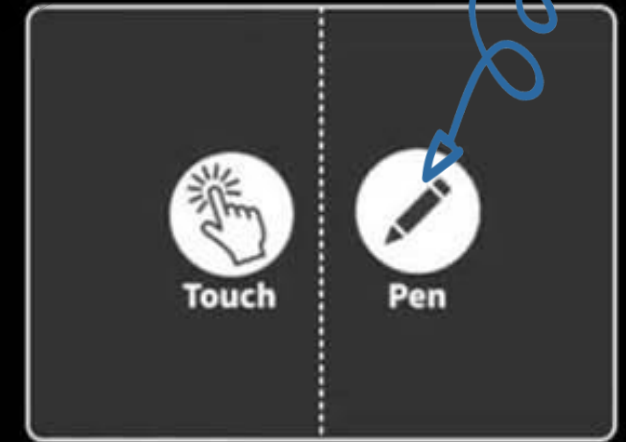
Tablet



Laptop

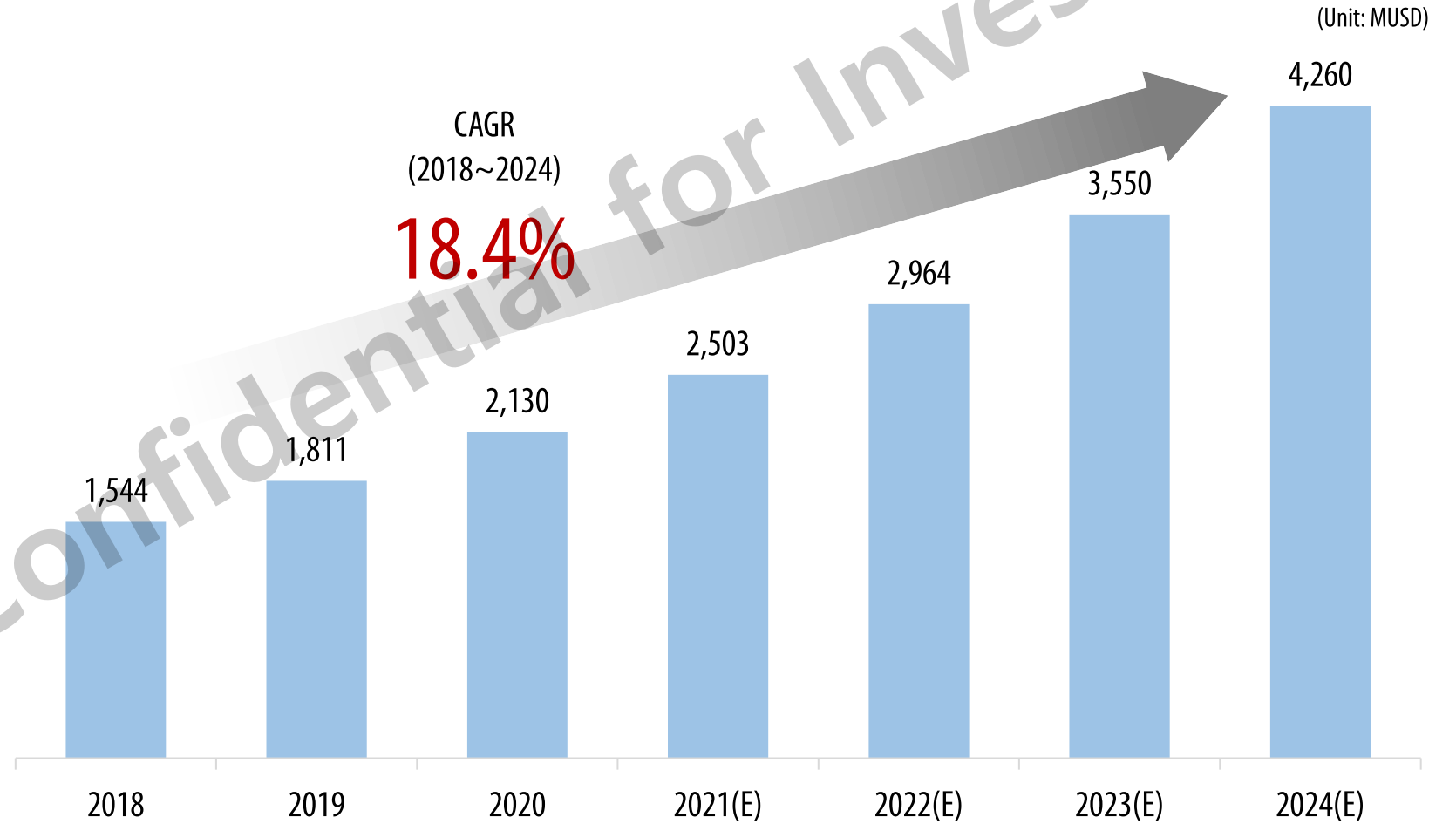


Foldable Monitor



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

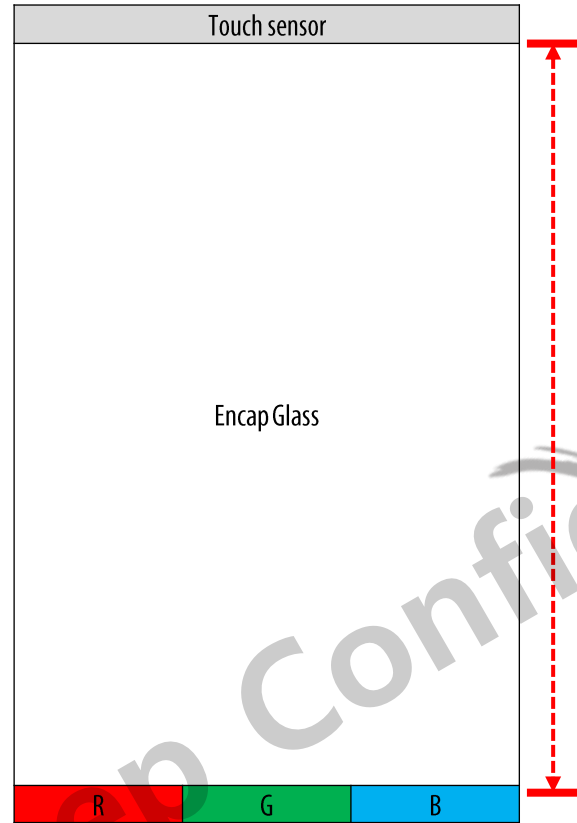
Stylus Market Prospect



※Source: Statista 2021

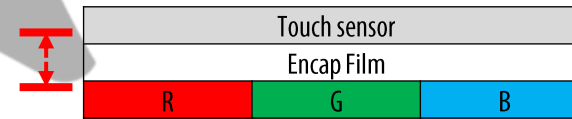
Chapter 2. HiDeep's Key Technology & Points

Challenges of Flexible OLED



Rigid OLED Display

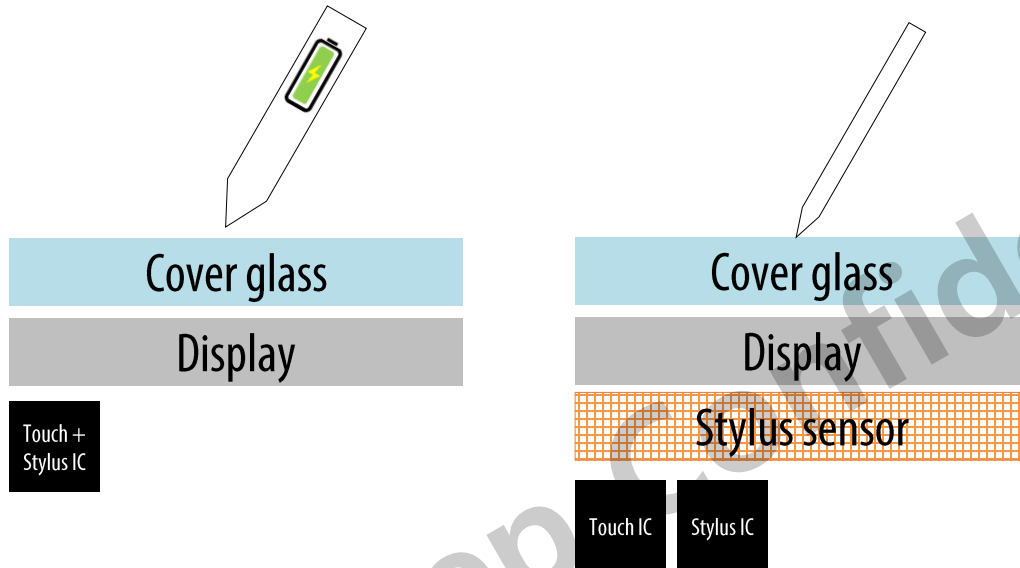
Display noise
x10



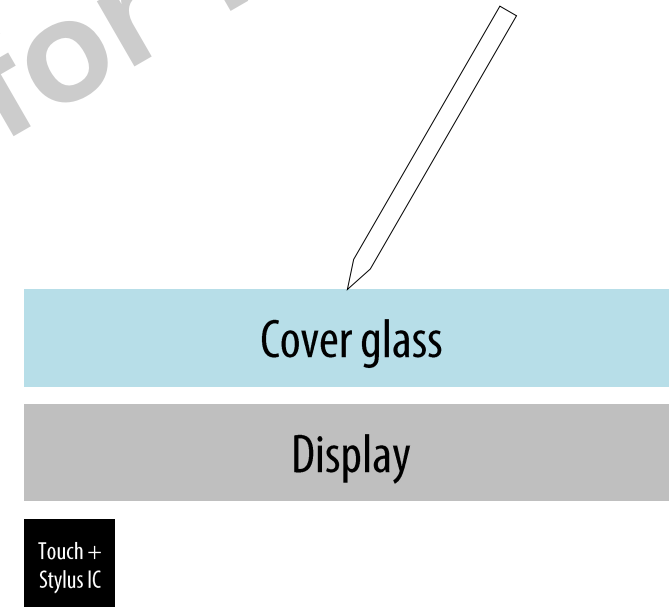
Flexible OLED Display

Flexible OLED Key Technology: HiDeep Stylus

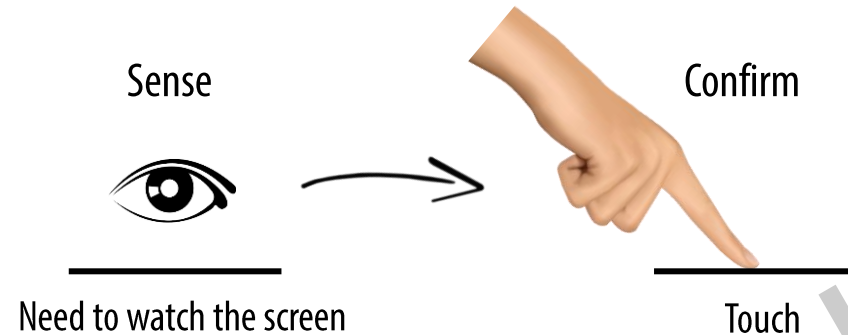
The Market Solution



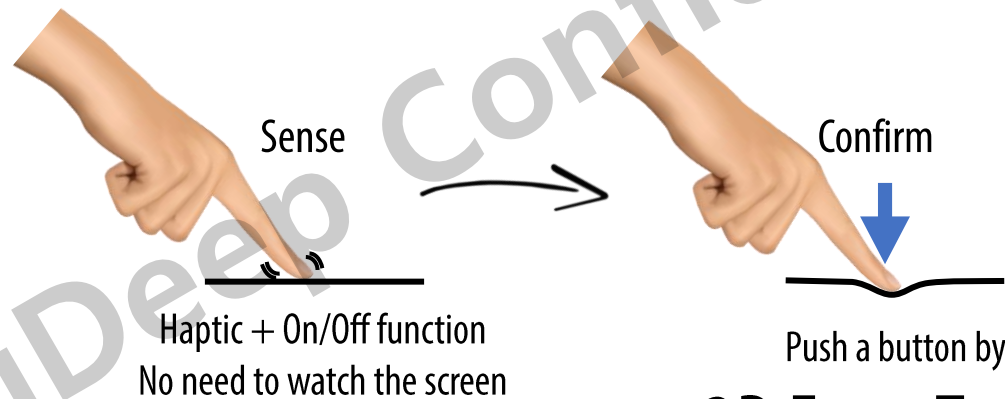
HiDeep Stylus Solution



The Automotive OLED Market Opportunity: 3D Force Touch

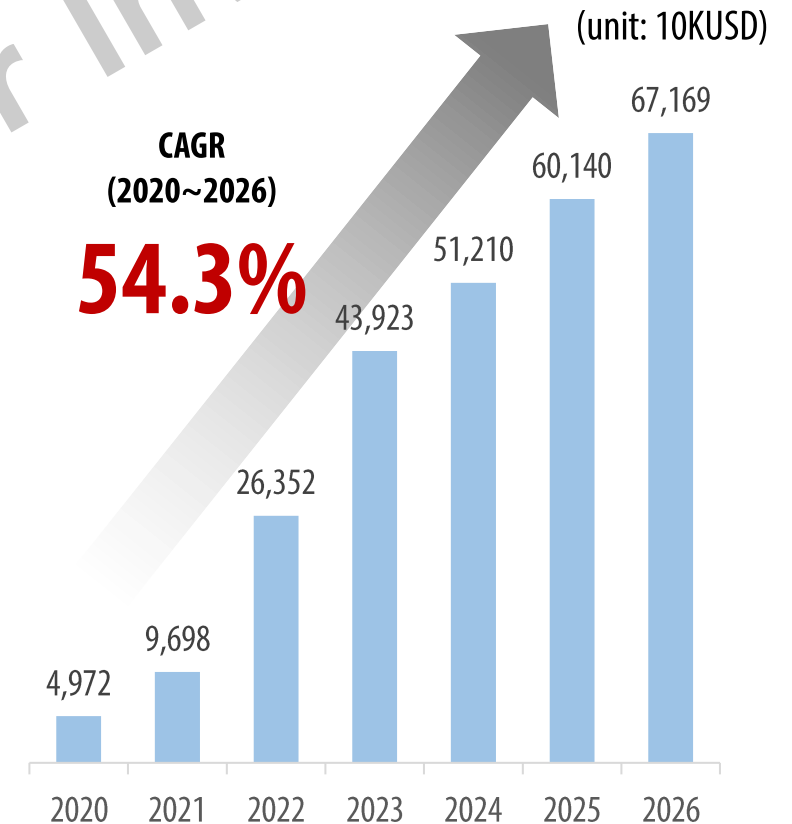


➡ HiDeep 3D Force Touch Solution



3D Force Touch

Global automotive OLED market forecast



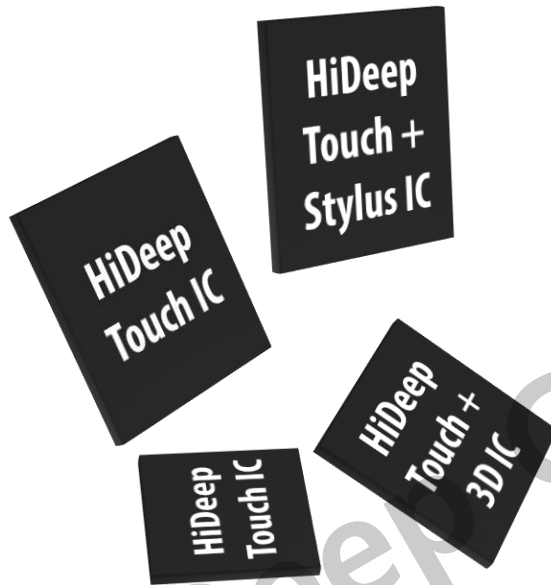
※source: Omdia

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



HiDeep, Inc.

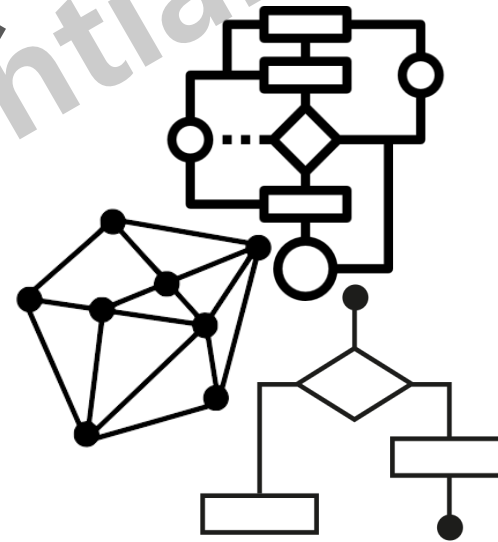
Touch IC



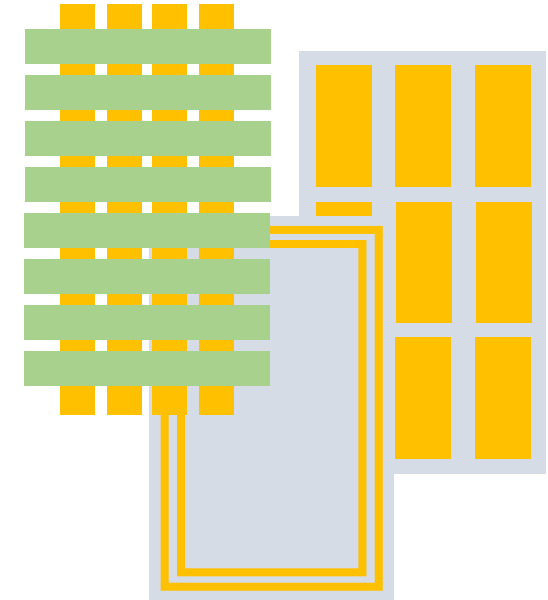
Stylus



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.

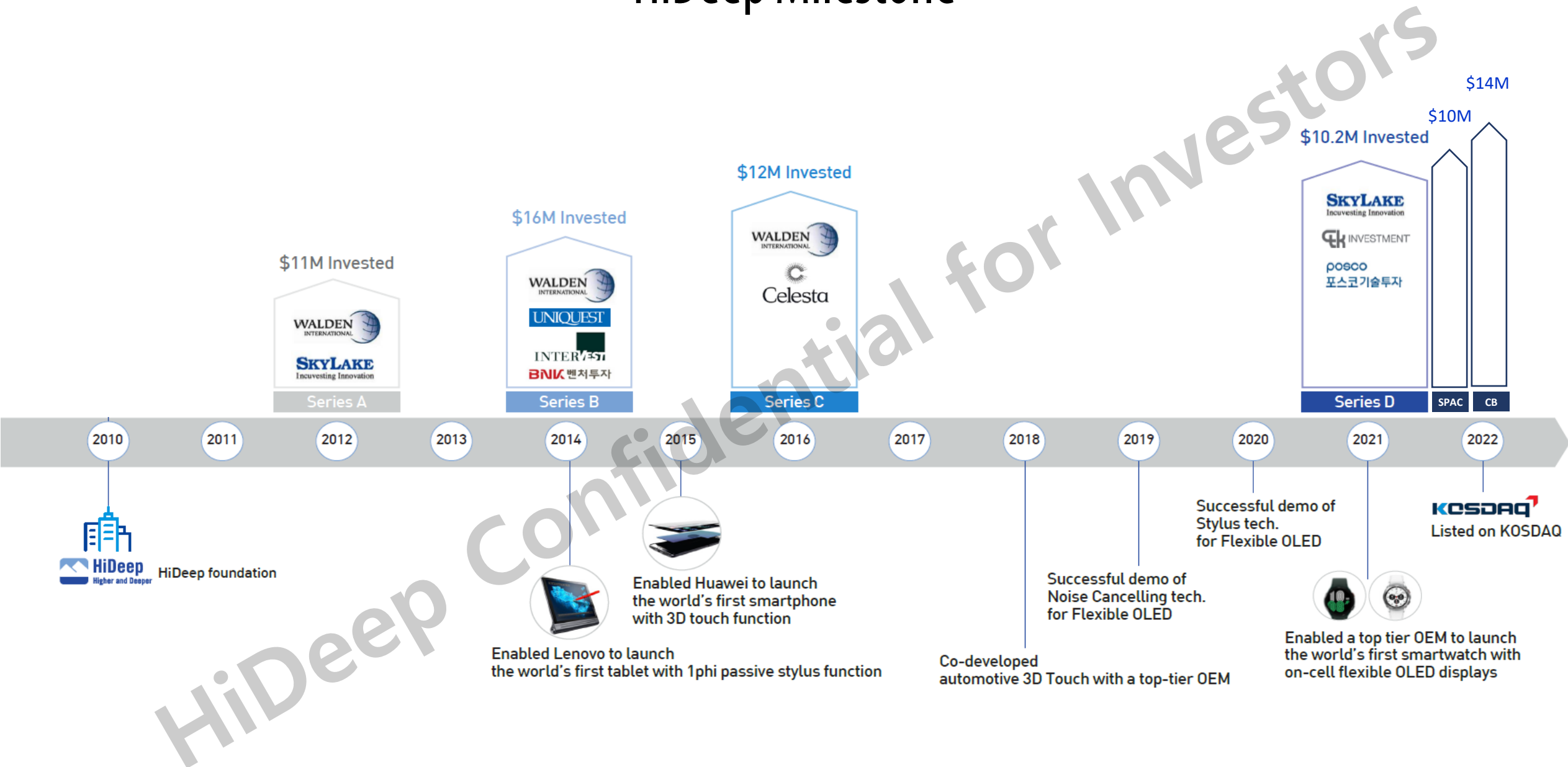
These innovative CMOS tuner products have been delivered over **40 million units** world wide. He also made the successful investment promotion of \$20 million and revenue of **\$40 million** in 6 years with team building up from 6 to over 90 employees.

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.



HiDeep Milestone



Business Model Diversification: Business Area

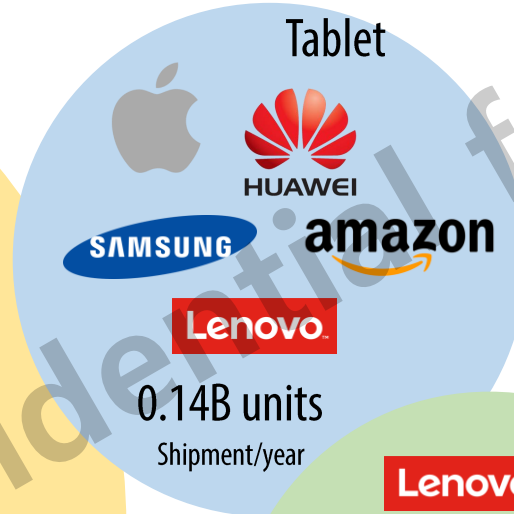
Business market

Smartphone



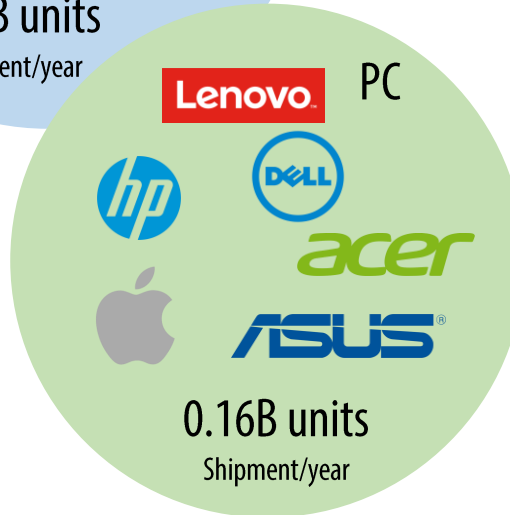
1.4B units
Shipment/year

Tablet



0.14B units
Shipment/year

PC



0.16B units
Shipment/year

Consumer market



Shareholder's

Shareholder's Table (2022-12-31)

Name of Owner	Shares	%
Largest shareholder(CEO) & Related persons	67,733,984	49.3%
SKYLAKE Investment Co.	10,815,424	7.9%
WI-HD INVESTMENT, LLC	9,453,616	6.9%
Others	49,716,930	35.9%
Total	137,457,352	100.0%

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
Total	73,602,381	53.6%	

Finance

Balance Sheet

(Unit: MKRW)

Description	2020	2021	2022
Current assets	2,340	9,845	32,255
Non-current assets	5,993	4,780	5,891
Total assets	8,333	14,625	38,146
Current liabilities	7,210	6,210	6,318
Non-current liabilities	311	225	13,621
Total liabilities	7,521	6,435	19,939
Capital	2,140	2,246	13,746
Capital surplus	41,909	52,040	57,802
Other equity	1,455	3,013	2,672
Deficits	-44,692	-49,109	-56,012
Total equity	812	8,190	18,207

Income Statement

(Unit: MKRW)

Description	2020	2021	2022
Revenue	1,470	13,309	18,145
Cost of revenue	1,815	8,444	11,925
Gross margin	-345	4,865	6,221
Operating expenses	5,837	8,628	8,492
Operating Income	-6,181	-3,762	-2,272
Non-operating income	102	267	959
Non-operating expense	477	959	6,199
Income before income taxes	-6,557	-4,454	-7,511
Income taxes	1	-8	-528
Net income	-6,558	-4,446	-6,983

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