

Sensortek Technology Corp. Investor Conferences



6732

昇佳電子股份有限公司

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Agenda

- I . Company Introduction
- II. Market Outlook
- III. Our Products
- IV. Financial Performance
- V . Future Development

I . Company Introduction

About Us

Company Name	Sensortek Technology Corp.	
Founded	December 1, 2009	
Capitalization	NT 489,126,180	
Chairman and CEO	Sheng-Su Lee	
Location	Tai Yuen Hi-Tech Industrial Park, Jhubei City, Hsinchu County	
Products	<ul style="list-style-type: none">• 光學感測晶片 Optical Sensor<ul style="list-style-type: none">- 近接感測晶片 Proximity Sensor (PS)- 環境光感測晶片 Ambient Light Sensor (ALS)- 色彩感測晶片 Color Temperature Sensor (RGB)- 閃頻偵測晶片 Flicker detection sensors• 微機電感測晶片 MEMS Sensor<ul style="list-style-type: none">- 加速度感測晶片 Accelerometer Sensor (GS)- 壓力感測器 Barometric pressure sensor	
Listing	Taipei Exchange Market (TPEX) 06/08/2020 (上櫃) Emerging Stock Market (TESM) 06/18/2019 (興櫃)	

Milestones

Entry Level Market

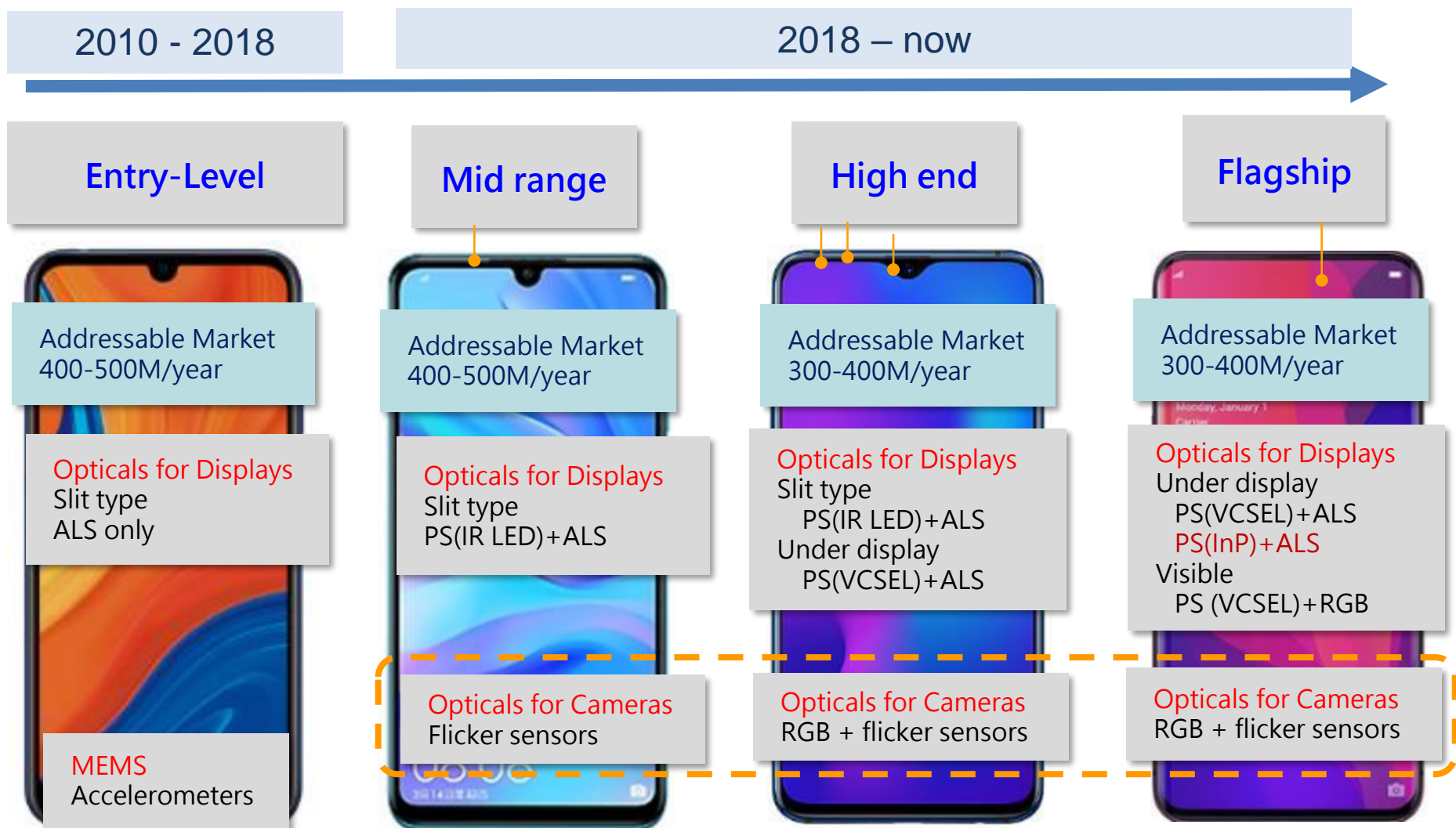
- 2009: Established the team and aim at entry-level smart phone models
- 2010: Launched Optical Product Lines: **Proximity (PS) & Ambient Light (ALS) sensors**
- 2012: Launched MEMS Product Line: Accelerometers (g-sensors)
- 2013: Spinoff
- 2017: Launched 2nd Gen. of Optical product: Invisible solution (PS+ALS, All-in-1)
- 2018: Launched 2nd Gen. of Optical product: **Under display & slit type PS+ALS solution**
Launched the 2nd Gen. of MEMS: Low-power G-sensors for smartphone

High-end Level Market

- 2019: Launched the 3rd Gen. of Optical product: **RGB sensors for high-end front screen**
- 2020: Listed at the Taipei Exchange Market (TPEX)
Launched the 3rd Gen. of Optical product: **RGB + flicker sensors for rear cameras**
- 2021: Move to high-end models
 - Launched Optical **high sensitivity PS+ALS (x10)** for AMOLED screens
 - Launched Optical **InP (1300nm) PS+ALS** solution for AMOLED screens
- 2022: more sensors to high-end models
 - Launched Optical **high sensitivity PS+ALS (x15)** for AMOLED screens
 - Launched Optical **flicker + UV sensor** for rear cameras
 - Launched MEMS **pressure sensor** for smartphone

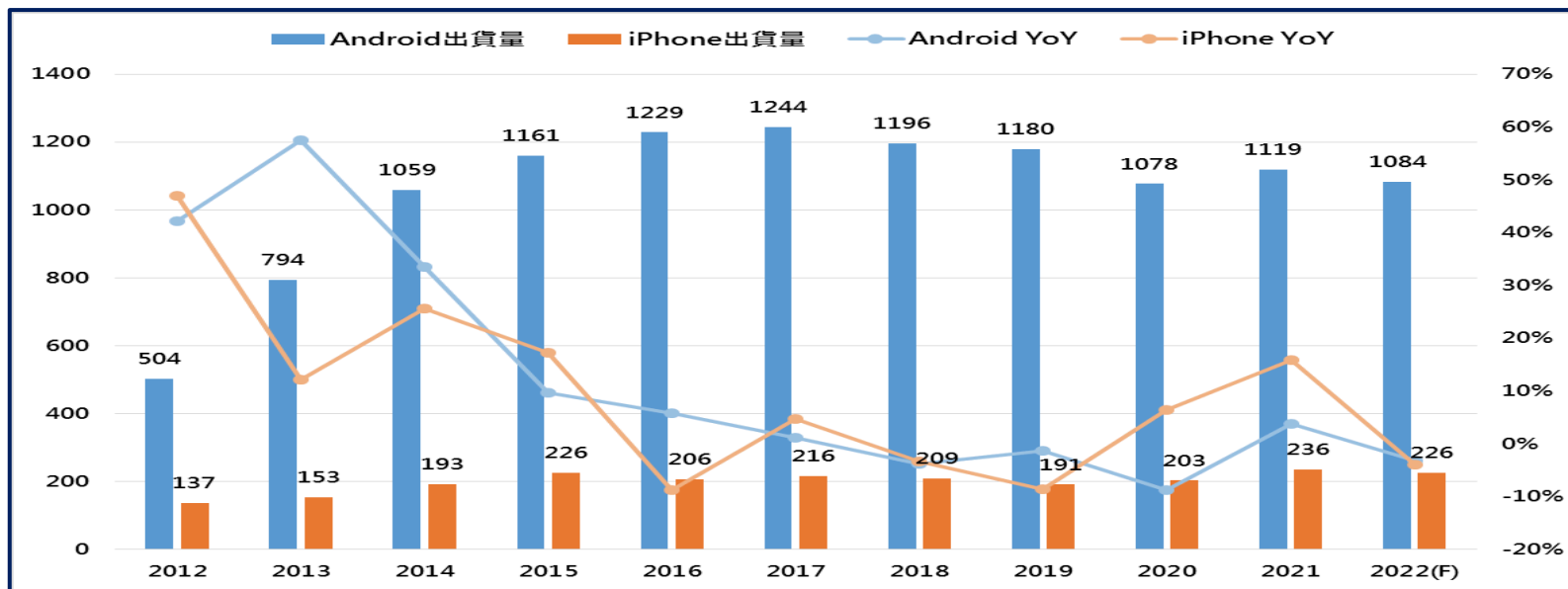
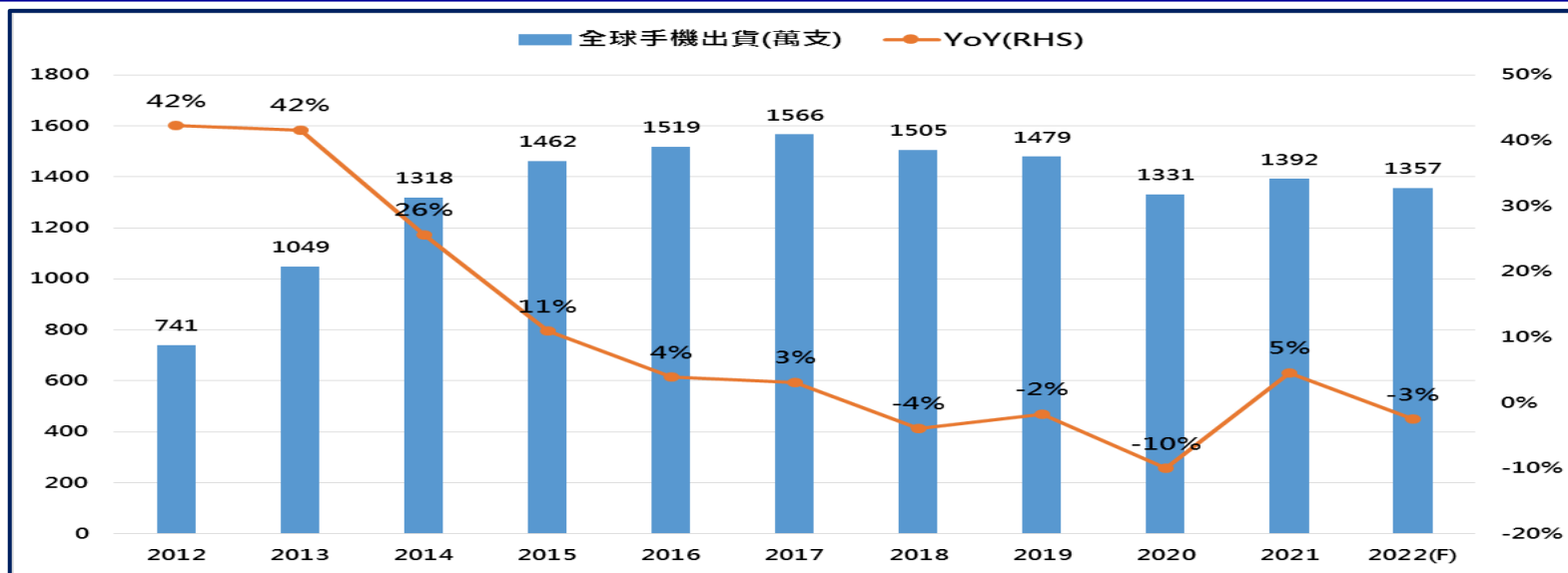
2021: Three Smartphone Sensors

We are developing high-performance products and moving to high-end



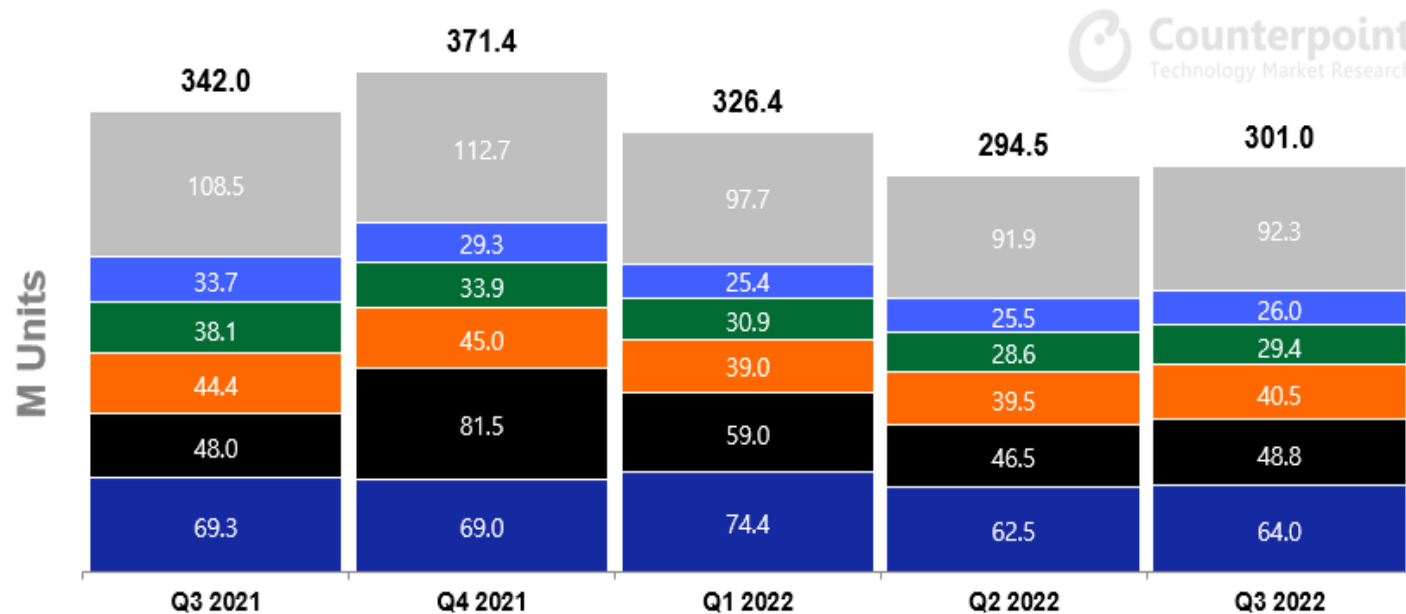
II. Market Outlook

WW Smartphone shipment forecast



Quarterly Global Smartphone Shipments by Key OEM

Q3 2022 Vs Q3 2021
YoY % Change



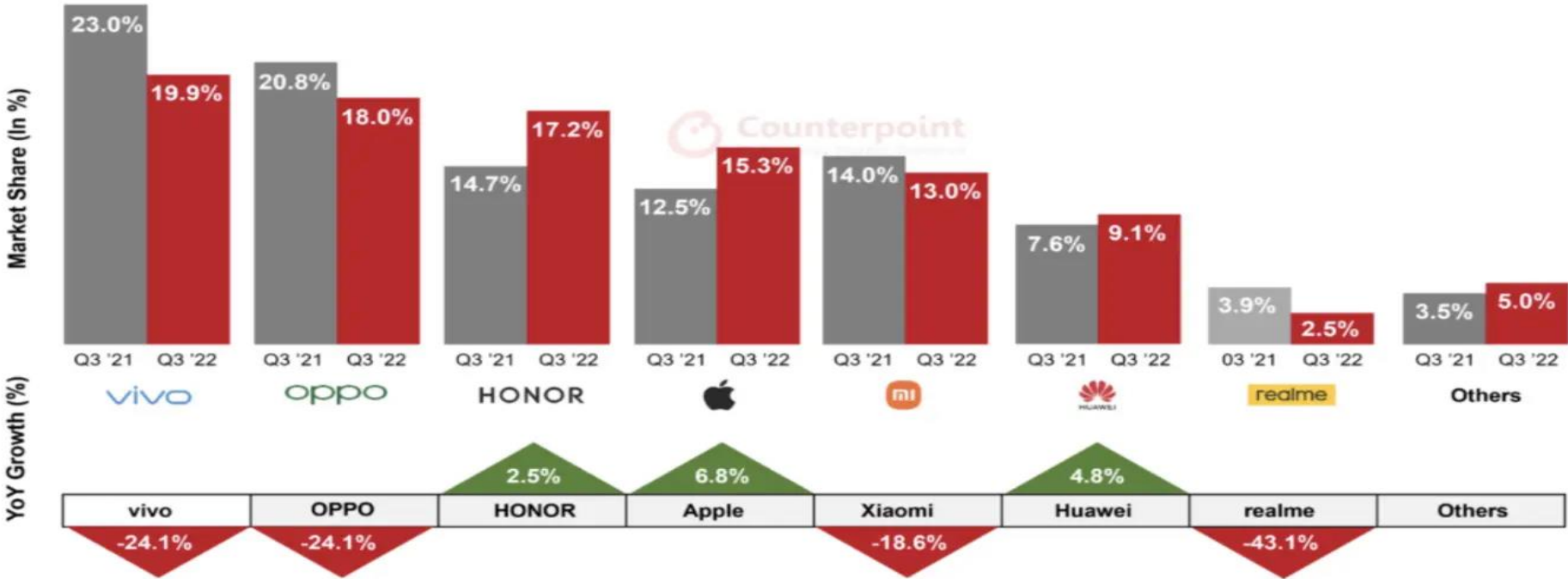
Total	-12%
Others	-15%
vivo	-23%
oppo	-23%
mi	-9%
Apple	+2%
SAMSUNG	-8%

Global smartphone market shrank 9% year-on-year in Q3 2022, a third consecutive quarter of decline

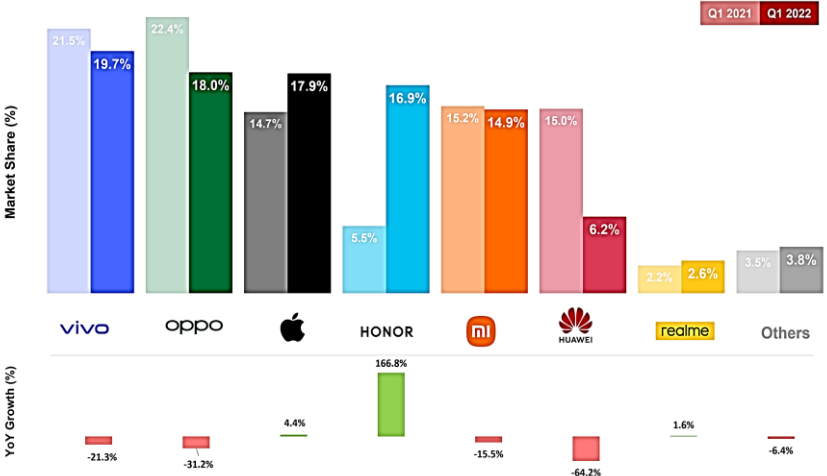


Source: Canals estimates (sell-in), Smartphone Analysis, October 2022

China Smartphone Sales Market Share, Q3 2021 vs Q3 2022

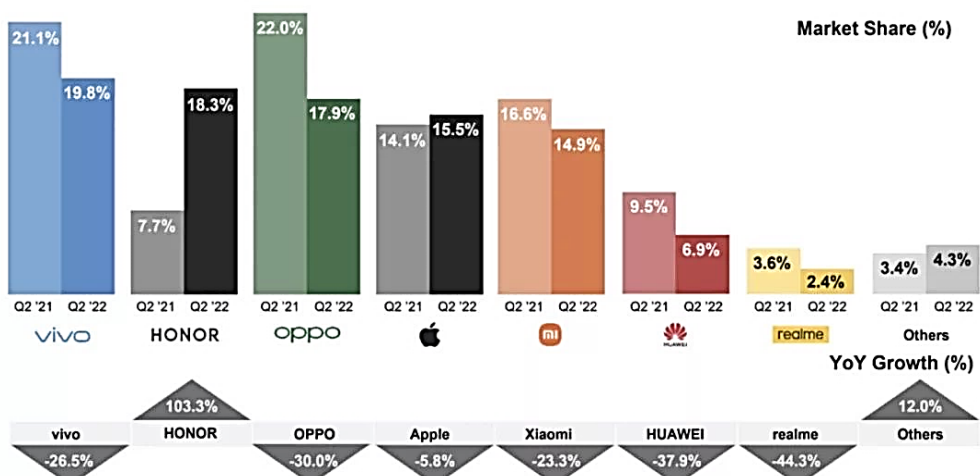


China Smartphone Market Share, Q1 2021 vs Q1 2022



Source: Counterpoint Market Pulse, March 2022
Notes: OPPO includes OnePlus; Xiaomi includes Redmi; vivo includes IQOO

China Smartphone Market Share, Q2 2021 vs Q2 2022



Source: Counterpoint Market Pulse, June 2022
Notes: OPPO includes OnePlus; Xiaomi includes Redmi; vivo includes IQOO

III. Our Products

Optical Sensor for screens

Optical sensor for displays :

Proximity Sensors (PS)

近接感測晶片 → 關屏防誤觸

turns off the display (anti-touch)

Ambient Light Sensors (ALS)

環境光感測晶片 → 調節螢幕亮度

... screen brightness control

G1: PS + ALS 2-in-1 visible solution (2010)

G2: PS + ALS 2-in-1 invisible solution (2018)

- Under-display 屏下方方案 for AMOLED displays
- Slit type 狹縫方案 for TFT displays

Color temperature Sensors (RGB)

色溫感測晶片 → 調節螢幕色溫

... screen color temperature control

G3: PS + RGB sensors (2019)

G4: PS + RGB sensors (2021)

- Slit type & under display
- for better reading experience



PS + ALS shipment

2019: >650M pcs
2020: >720M pcs
2021: >660M pcs



Waterdrop Screen

狹縫(Slit) ALS/PS
狹縫(Slit) PS / 屏下 ALS
前置鏡頭 ALS/PS
(Aside of Front Facing Camera)

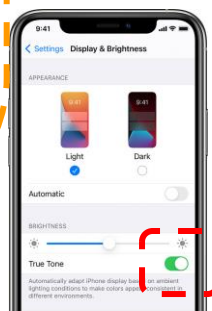


Bezel-less Screen

屏下(Under-display) ALS/PS
狹縫(Slit) PS / 屏下 Under-display ALS



Sensitivity upgrades → ASP Boosts
(感度提升 → 價格提升)



G2: PS + ALS invisible solution → 3x → 6x (2020) → 10x (2021) → 15x (2022 MP) ...

- **under display solution** for AMOLED screen → multi emitter solution or enhance Rx PD sensitivity solution
- **white spot reduce solution** for AMOLED screen → multi emitter solution or InP (1300nm) PS+ALS solution

G4: PS + RGB invisible solution → 2022 MP ...

Optical Sensor for Cameras

Optical sensor for Cameras :

3ch RGB sensor (2021 MP)

色溫感測晶片 → 協助後相機白平衡校正
white balance correction

Flicker detection sensors (2021 MP)

閃頻偵測晶片 → 協助消除光源物理閃爍
Flicker detection

--> Flicker + UV detection -- under development



3ch RGB sensor :

Camera RGB sensors are used for **white balance correction**.

Different light sources come with different color temperatures, which can create unrealistic color casts in photos. White balance is the process of removing such color casts so that objects that appear white in person are rendered white in the photo..

環境中充斥著各種不同的光線，這些光線有著不同的色溫，因此手機數位相機在進行拍照時，需要對這些光線進行校正，才能呈現出正常的白色。依據 RGB色溫感測器、影像感測器所測量的色溫來自動校正調整白平衡。



Flicker detection sensors :

Detects the 50 Hz or 60 Hz flickers produced by incandescent or fluorescent lights. Helps eliminate the streaks and distortion effects caused by the flickering.

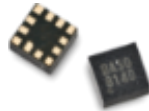
檢測環境中由白熾燈或螢光燈所產生的50Hz或60Hz光源物理閃爍。協助手機攝像頭之圖像系統消除人造光源的閃爍而出現的條紋和失真效果。

MEMS Sensors

Accelerometers (G-sensors)

Rotation detection

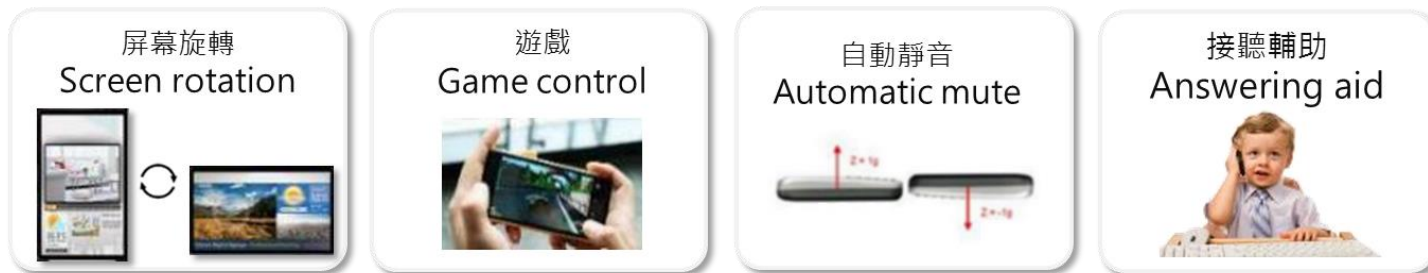
加速度感測器 → 偵測屏幕旋轉方向



G-sensor shipment

2019 : >55M pcs
2020 : >80M pcs
2021: >120M pcs

- ✓ G-sensors for smartphones
- ✓ Low power g-sensors for wearable & IoT devices



Gyroscope sensor -- under development

Angular Momentum detection

角動量感測器 → 方向感測與方向維持應用

Barometric pressure sensor -- ready for MP

Atmospheric pressure detection

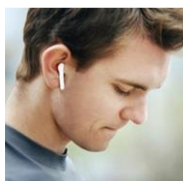
大氣壓力感測器 → 海拔高度(水深)感測

Wearable Devices : Optical + MEMS

True wireless stereo (TWS) earbuds

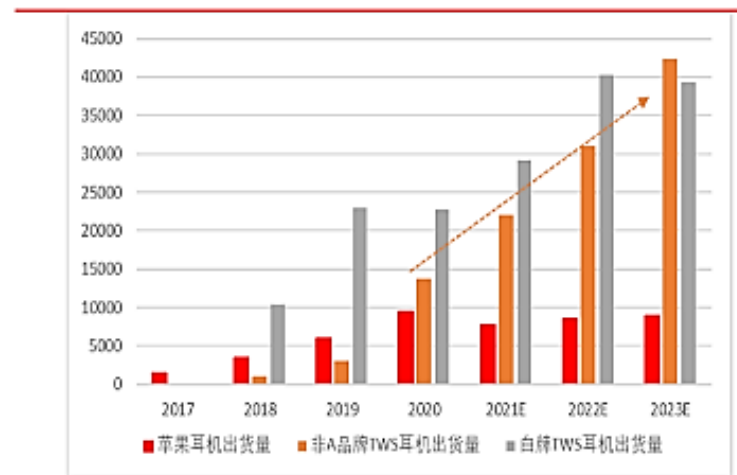
Accelerometers → click detection 敲擊偵測

Proximity sensors → on/off switch 功能啟用開關



敲擊偵測 Click detection

- 有來電時 Incoming call
單擊接聽 Click to answer
雙擊拒接 Double click to reject
- 音樂播放 Music mode
單擊暫停 Click to pause
雙擊換曲 Double click to switch



Smart watches & fitness trackers

Accelerometers → motion detection 移動偵測

Optical sensors → heartbeat detection 心律偵測 & UV sensors



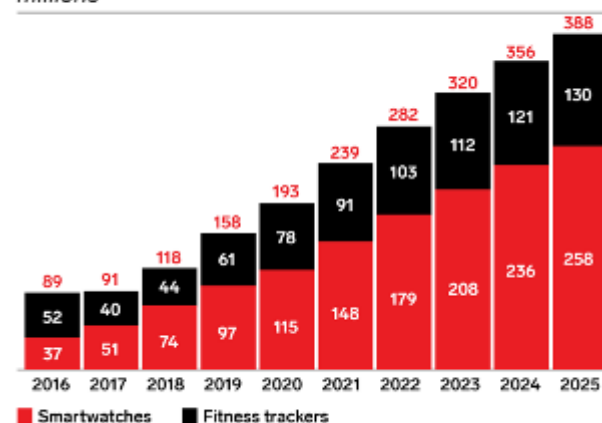
抬手亮屏 / 動態心率輔助
Heartbeat detection



睡眠偵測 / 久坐提醒
Sleep quality monitoring



Smart Wearable Device Shipments Worldwide, Smartwatch vs. Fitness Tracker, 2016-2025
millions



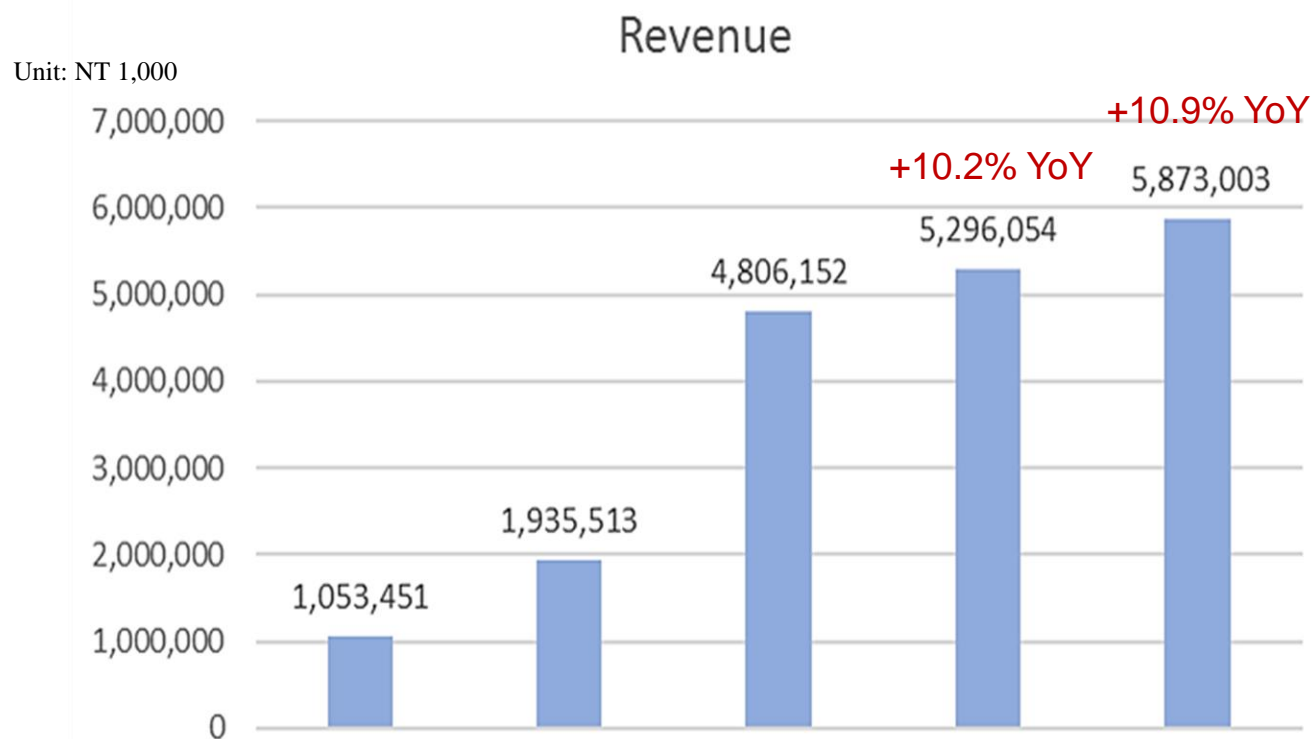
參考附件僅供示意參考

For illustration purposes only.

Note: numbers may not add up to total due to rounding
Source: CCS Insight as cited in press release, Feb 24, 2021

IV. Financial Performance

6732 Financial Performance



	2017	2018	2019	2020	2021
Revenue	1,053,451	1,935,513	4,806,152	5,296,054	5,873,003
Gross Margin	158,184	649,442	2,018,872	2,127,828	2,691,031
Margin Rate (%)	15%	34%	42%	40%	46%
Operating Income	8,751	366,646	1,497,236	1,537,189	1,900,070
Net Income	5,309	326,275	1,322,900	1,365,454	1,661,349
EPS (NT\$)	0.14	8.64	35.01	28.81	33.97

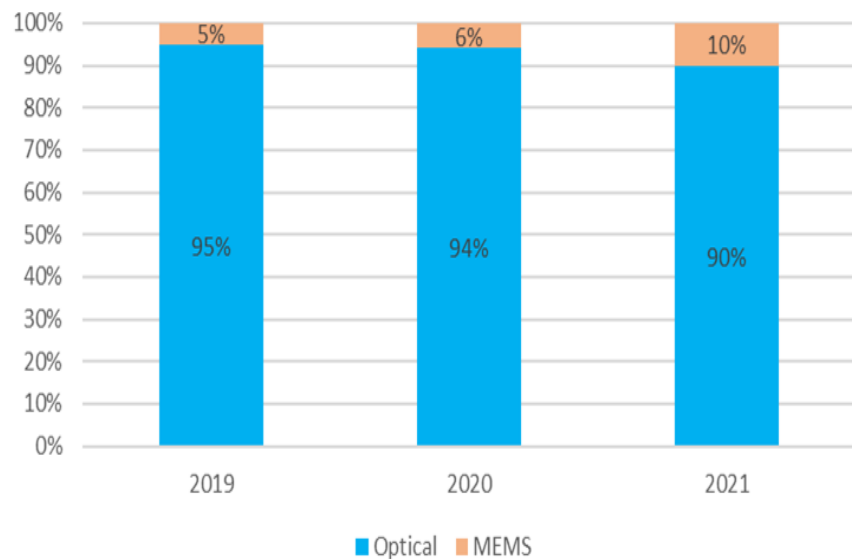
+18% YoY

Note: The EPS values listed here are based on the capital of 37,781 thousand shares.

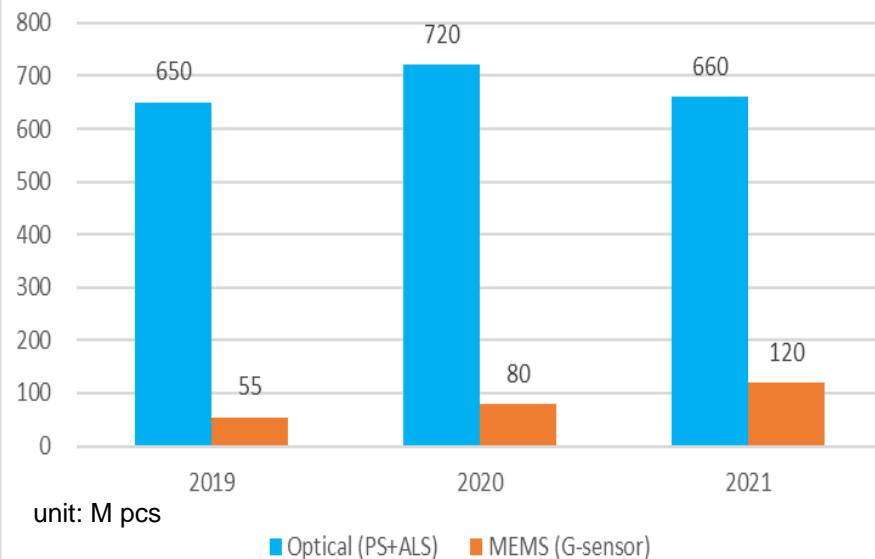
Cash dividend : 30 ntd

Product Mix

Product contribution



Product Shipment



6732 Income Statement

Item	Q3 22		Q2 22		Q1 22		Q1~Q3 22		Q3 21		Q1~Q3 21	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	755,871	-	1,120,789	-	1,348,773	-	3,225,433		1,925,603	-	4,692,621	-
Gross Profit	267,083	35%	472,805	42%	573,143	42%	1,313,031	41%	921,187	48%	2,158,404	46%
Operating Expense	150,315	20%	184,371	16%	192,467	14%	527,153	16%	241,225	13%	608,378	14%
Operating Income	116,773	15%	288,439	26%	380,681	28%	785,893	25%	680,546	35%	1,550,619	33%
Income before Tax	164,861	22%	300,850	27%	411,907	30%	877,618	28%	702,069	36%	1,589,236	33%
Net Income*	146,952	20%	250,480	22%	339,146	25%	736,578	24%	589,738	30%	1,336,223	29%
EPS	3.00		5.12		6.93	-	15.06		12.06	-	27.32	-

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

* Listed on the English translation of our financial statements as
"Profit (loss), attributable to owners of parent"

6732 Balance Sheet

Item	2022/9/30	2022/6/30	2022/3/31	2021/12/31	2021/9/30
Total Assets	5,888,541	6,044,244	7,790,405	7,220,887	6,973,430
Current Assets	4,331,616	4,521,772	6,341,047	5,817,181	5,628,478
Cash & Equivalents	1,872,258	1,814,430	2,227,118	1,975,445	2,338,478
AR	431,232	550,799	1,005,550	774,850	814,803
Inventory	1,185,459	1,020,337	771,698	678,295	413,657
Total Liability	1,528,023	1,819,711	3,769,979	2,063,124	2,168,520
AP	536,140	858,760	827,740	849,328	914,921
Shareholder Eqt.	4,360,518	4,224,533	4,020,426	5,157,763	4,804,910

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

* Listed on the English translation of our financial statements as
"Profit (loss), attributable to owners of parent"

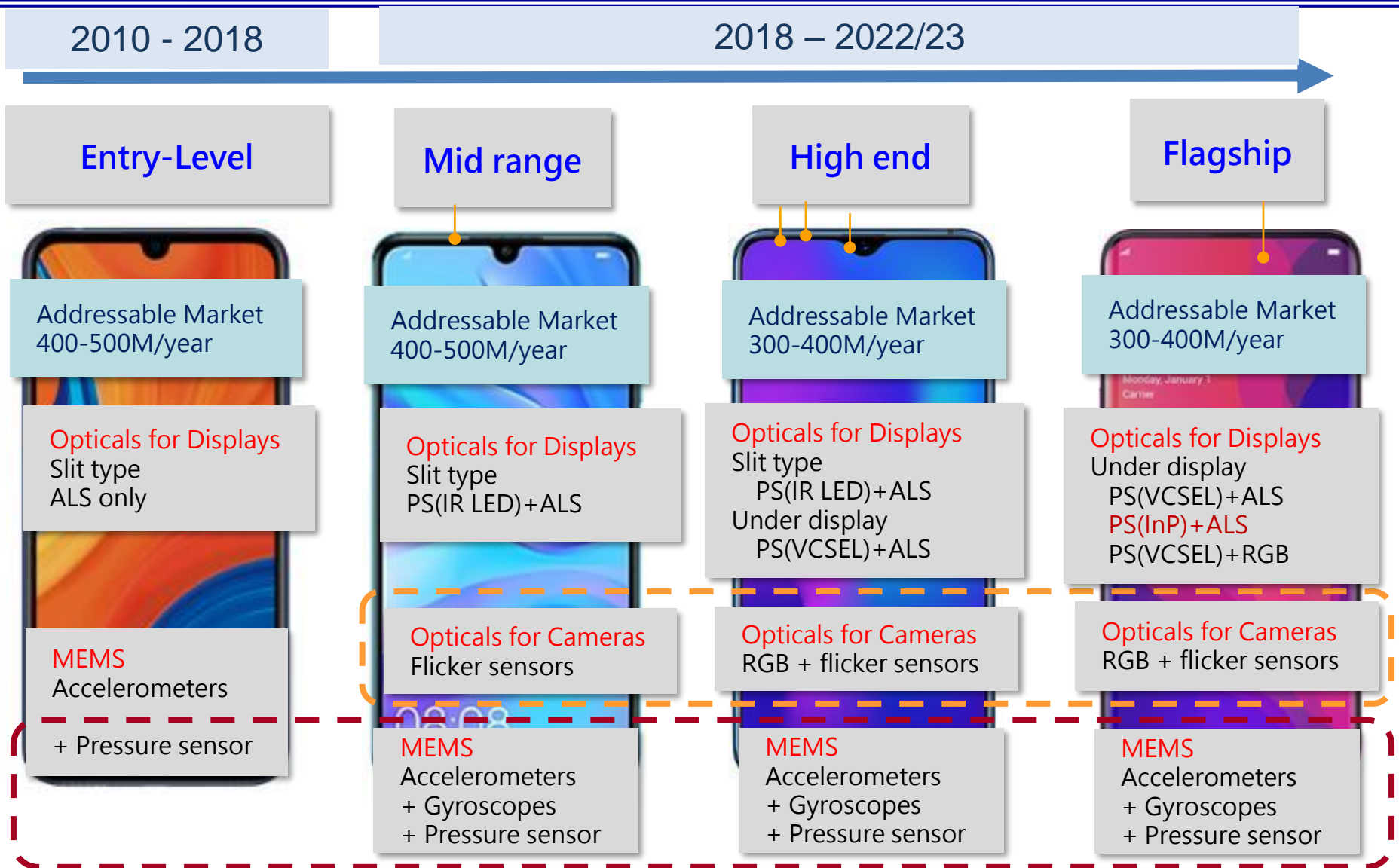
V. Future Development

Stay Tuned

More than 20 sensors built in high-end smartphones



Going Forward



Sensor growth opportunities

1. Optical sensor for smartphone screens :

- High sensitivity PS+ALS (x6, x10) → **x15 new PS+ALS** for more high-end AMOLED models
- PS+RGB (with ALS) → **G4 PS+RGB sensor** in high-end smartphone

2. Optical sensor for smartphone rear Cameras :

- RGB sensors → white balance correction in more high-end smartphone
- **flicker + UV sensors → in more high-end smartphone**

3. MEMS sensors in smartphone :

- G sensors → enlarge entry-level smartphone market
- **Pressure sensor → in wearable devices & smartphone market**
- Gyroscope sensors (under development)
→ to entry of mid-to-high-end smartphones

4. Extend to other applications :

- TWS: PS + G-sensor
- Smart watches: ALS+UV, heartbeat sensor, G-sensor , Pressure sensor
- Smart speakers: ALS
- AR & VR glasses : PS & Gyroscopes
- ...and more (e.g. auto & industrial)



Thank You

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