

Sensortek Technology Corp. Investor Conferences



6732

昇佳電子股份有限公司

Disclaimer

- This presentation includes forward-looking statements. All statements, other than statements of historical facts, that address activities, events or developments that Sensortek Technology Corp. expects or anticipates will or may occur in the future (including but not limited to projections, targets, estimates and business plans) are forward-looking statements.
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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	
Number of Employees	170	
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) 	
Listing	Taipei Exchange Market (TPEX) 06/08/2020 (上櫃) Emerging Stock Market (TESM) 06/18/2019 (興櫃)	

Milestones

Entry Level Market

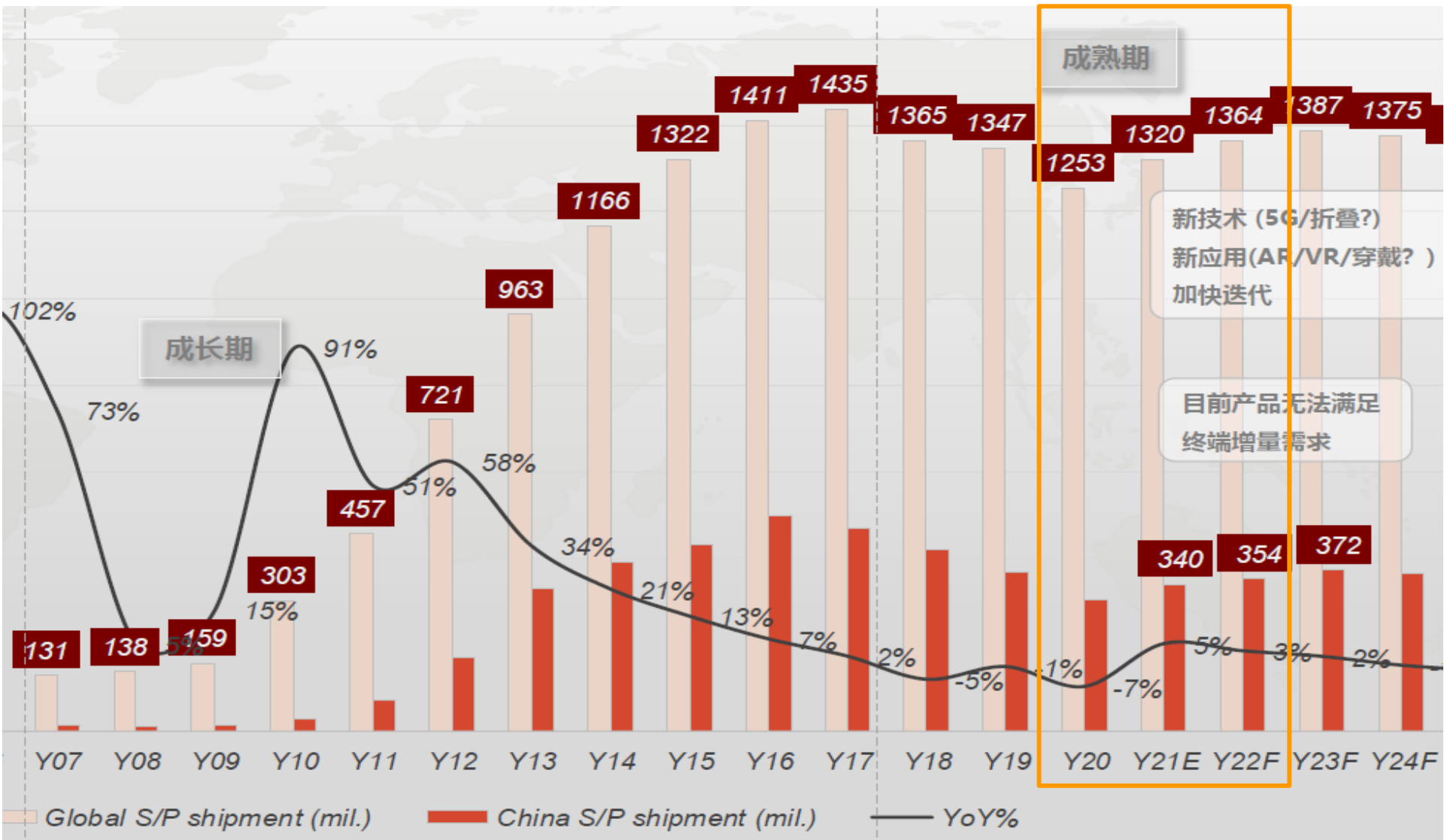
- 2009: Established the team and aim at entry-level smart phone models
- 2010: **Launched Optical Product Lines: Proximity (PS) & Ambient Light (ALS) sensors**
- 2012: **Launched MEMS Product Line: Accelerometers (g-sensors)**
- 2013: Spinoff
- 2017: **Launched 2nd Gen. of Optical product: Invisible 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 smart phone

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 **Under display & slit type PS+RGB** for screens

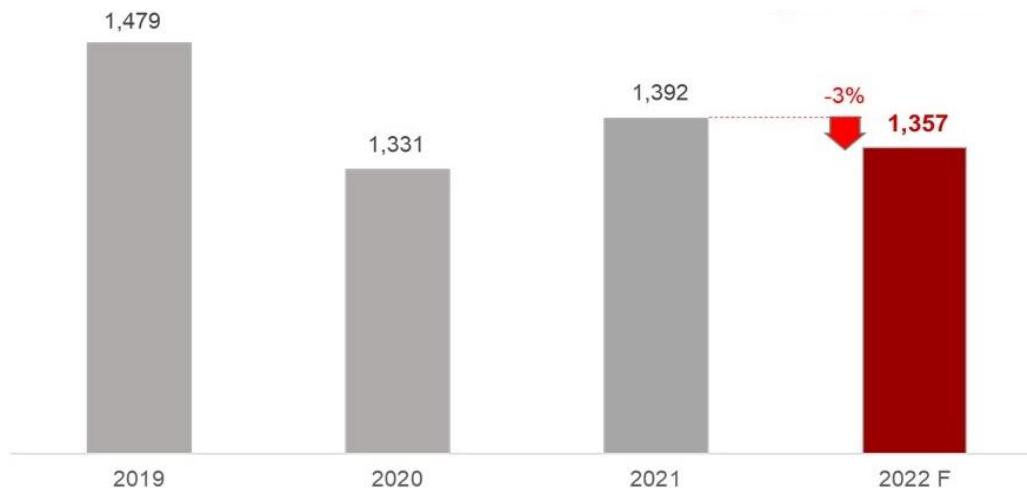
II. Market Outlook

Global Smartphone Shipment Forecasts



5G Smartphone Forecast

WW Smartphone shipment forecast update

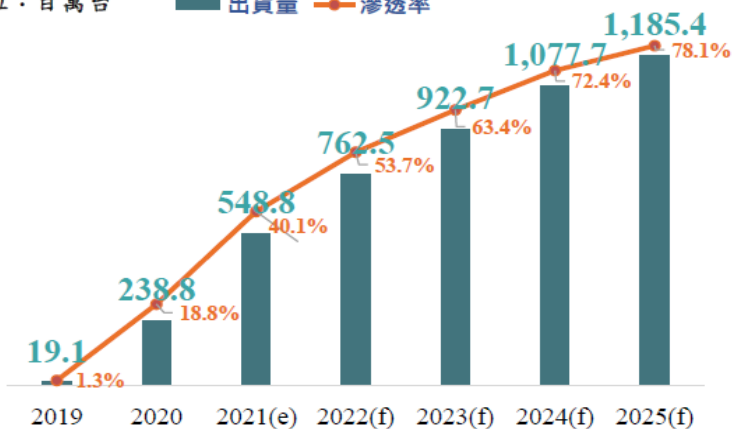


Source: Counterpoint Market Outlook 2022-2026, May 2022

5G smartphone forecast

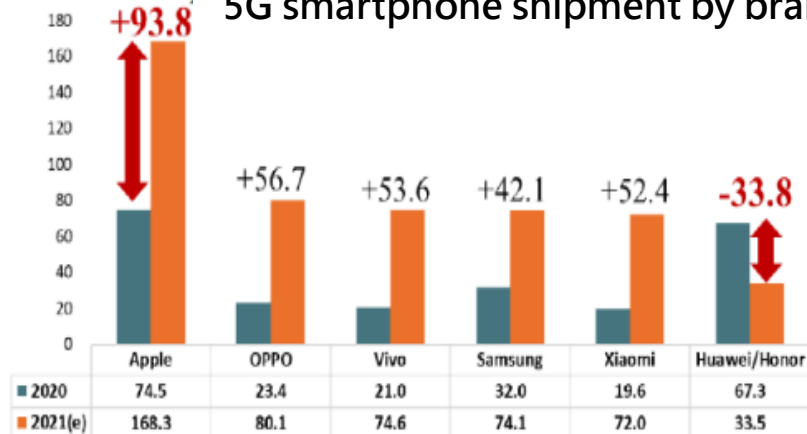
單位：百萬台

出貨量 滲透率



5G smartphone shipment by brand

單位：百萬台



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



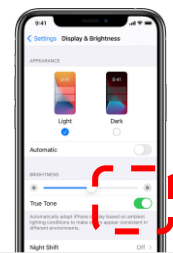
Waterdrop Screen

狹縫(Slit) ALS/PS
 狹縫(Slit) PS / 屏下 ALS
 前攝旁 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



G1: PS + ALS visible solution 1x
 G2: PS + ALS invisible solution → 3x → 6x → 10x (MP) (H sensitivity)
 - Under-display solution for AMOLED

G3: PS + RGB visible solution (2019) 1x
 G4: PS + RGB invisible solution (2021) 3x (MP)

Sensitivity & feature Upgrades → ASP Boosts
 感度及功能提升 → 平均價格提升

Optical Sensor for Cameras

Optical sensor for Cameras :

3ch RGB sensor

色溫感測晶片 → 協助後相機白平衡校正
white balance correction (2021)

Flicker detection sensors

閃頻偵測晶片 → 協助消除光源物理閃爍
Flicker detection (2021)



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.

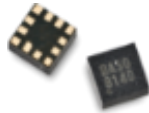
用於檢測環境中由白熾燈或螢光燈所產生的50Hz或60Hz光源物理閃爍。協助手機攝像頭之圖像系統能夠消除人造光源的閃爍而出現的條紋和失真效果。

MEMS Sensors

Accelerometers (G-sensors)

Rotation detection

加速度感測器 → 屏幕旋轉偵測



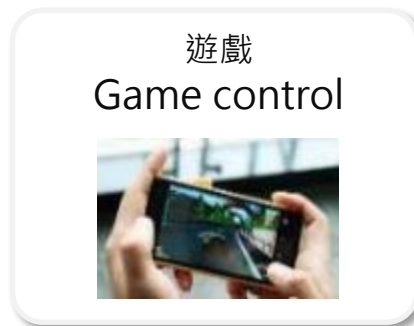
G-sensor shipment

2019 : >55M pcs

2020 : >80M pcs

2021: >120M pcs

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



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



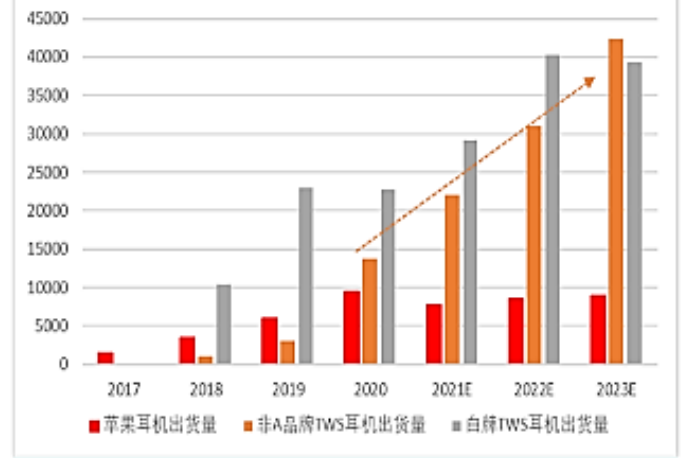
抬手亮屏 / 動態心率輔助
Heartbeat detection



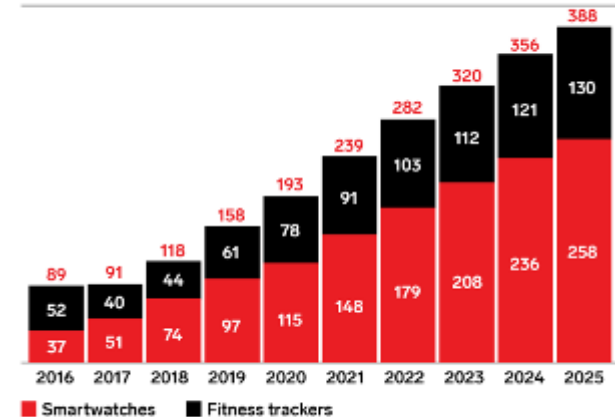
睡眠偵測 / 久坐提醒
Sleep quality monitoring



參考附件僅供示意參考
For illustration purposes only.



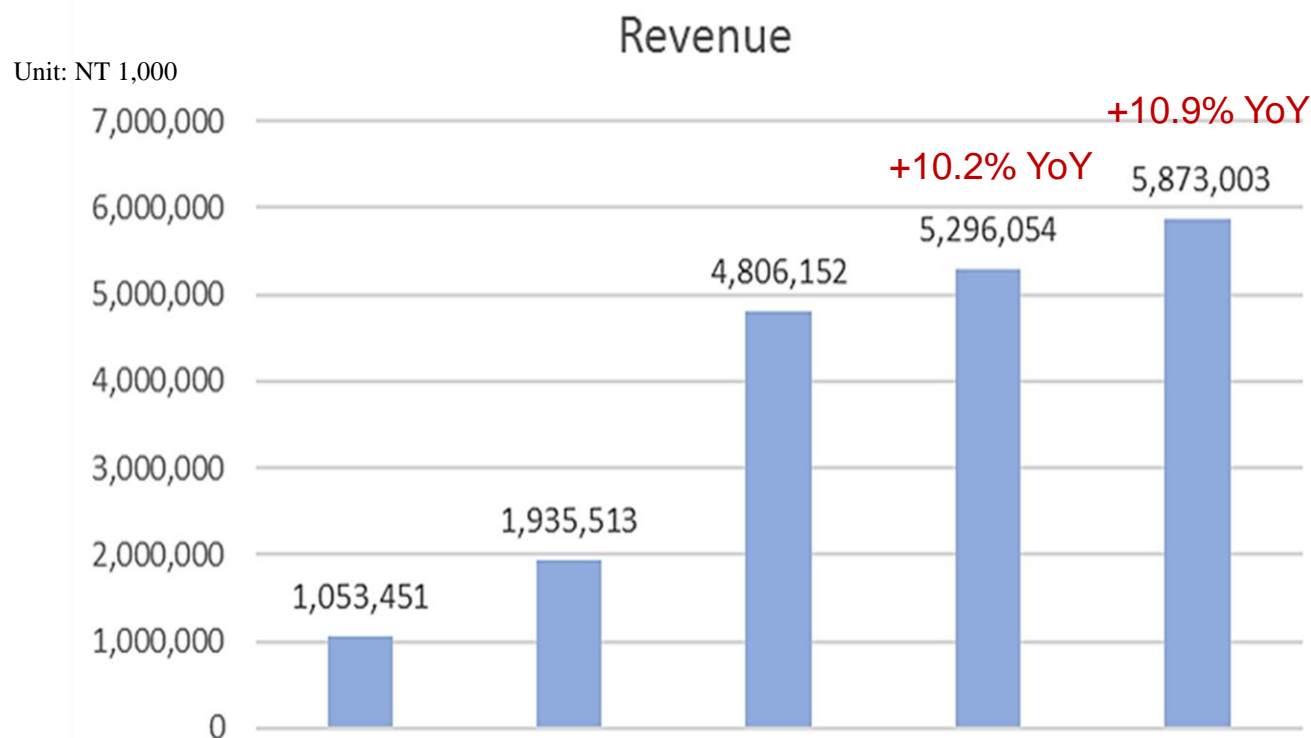
Smart Wearable Device Shipments Worldwide, Smartwatch vs. Fitness Tracker, 2016-2025
millions



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

6732 Income Statement

Item	Q1 22		Q4 21		Q1~Q4 21		Q1 21	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	1,348,773	-	1,180,382	-	5,873,003	-	1,268,541	-
Gross Profit	573,143	42%	532,627	45%	2,691,031	46%	512,956	40%
Operating Expense	192,467	14%	183,181	16%	791,559	14%	167,906	13%
Operating Income	380,681	28%	349,451	30%	1,900,070	32%	345,055	27%
Income before Tax	411,907	30%	381,447	32%	1,970,683	33%	350,677	27%
Net Income*	339,146	25%	325,126	28%	1,661,349	28%	295,568	23%
EPS	6.93	-	6.65	-	33.97	-	6.04	-

(unitK ntd)	111.Q1	110.Q1	YoY
Net sale	1,348,773	1,268,541	6.32%
Net income	339,146	295,568	14.74%
EPS	6.93	6.04	14.74%

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	2022/3/31	2021/12/31	2021/9/30	2021/6/30	2021/3/31
Total Assets	7,790,405	7,220,887	6,973,430	7,034,889	6,546,874
Current Assets	6,341,047	5,817,181	5,628,478	5,738,903	5,288,197
Cash & Equivalents	2,227,118	1,975,445	2,338,478	3,402,027	2,215,010
AR	1,005,550	774,850	814,803	489,591	450,143
Inventory	771,698	678,295	413,657	425,377	305,180
Total Liability	3,769,979	2,063,124	2,168,520	2,793,386	2,780,120
AP	827,740	849,328	914,921	802,201	688,059
Shareholder Eqt.	4,020,426	5,157,763	4,804,910	4,241,503	3,766,754

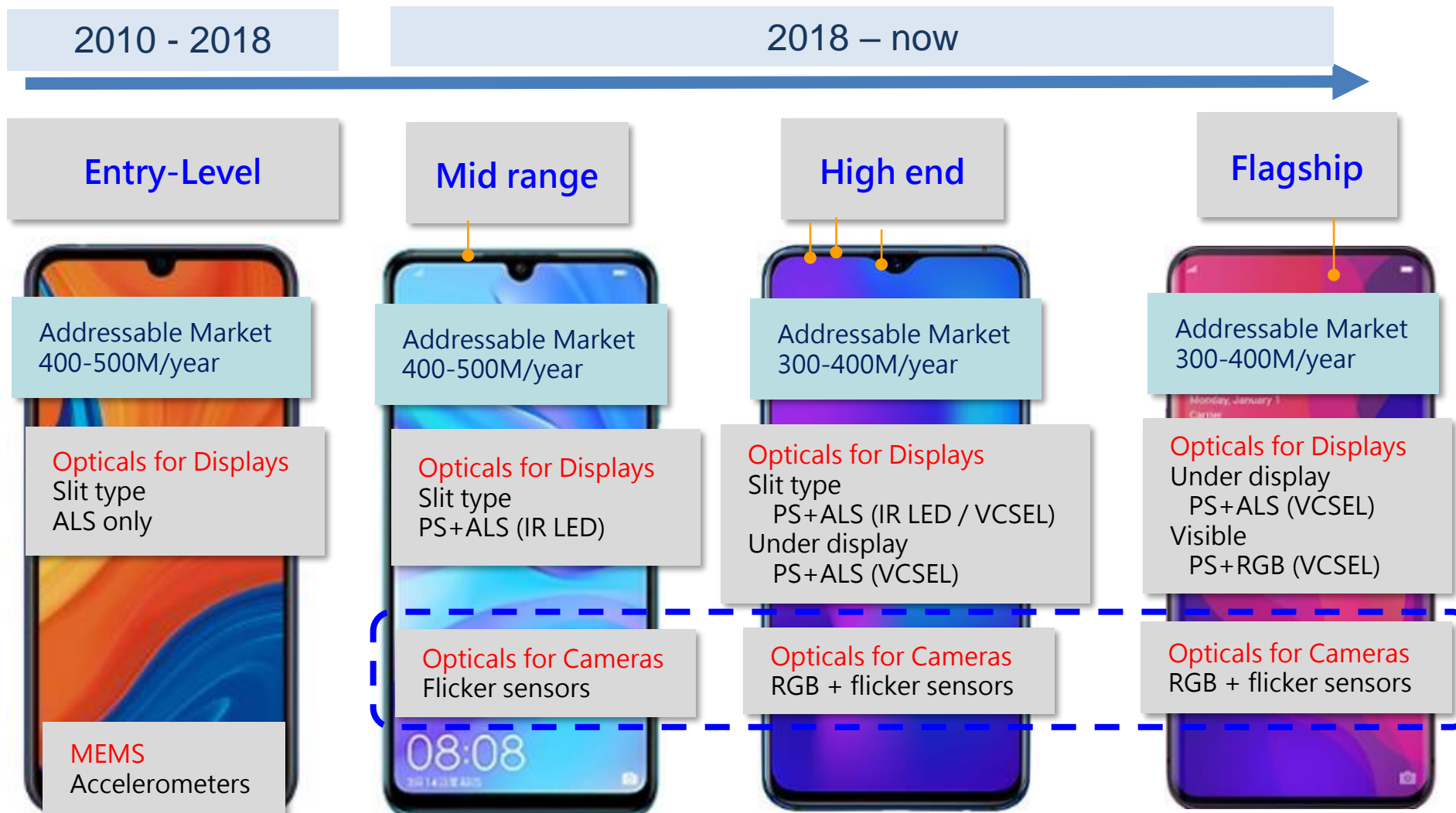
Unit: NT\$ thousands (except EPS)
Accounting standard: IFRS

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V. Future Development

2021: Three Smartphone Sensors

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



Going Forward

2010 - 2018

2018 – 2022/23

Entry-Level

Mid range

High end

Flagship

Addressable Market
400-500M/year

Addressable Market
400-500M/year

Addressable Market
300-400M/year

Addressable Market
300-400M/year

Opticals for Displays
Slit type
ALS only

Opticals for Displays
Slit type
PS+ALS (IR LED)

Opticals for Displays
Slit type
PS+ALS (IR LED / VCSEL)
Under display
PS+ALS (VCSEL)

Opticals for Displays
Under display
PS+ALS (VCSEL)
Visible
PS+RGB (VCSEL)

Opticals for Cameras
Flicker sensors

Opticals for Cameras
RGB + flicker sensors

Opticals for Cameras
RGB + flicker sensors

MEMS
Accelerometers

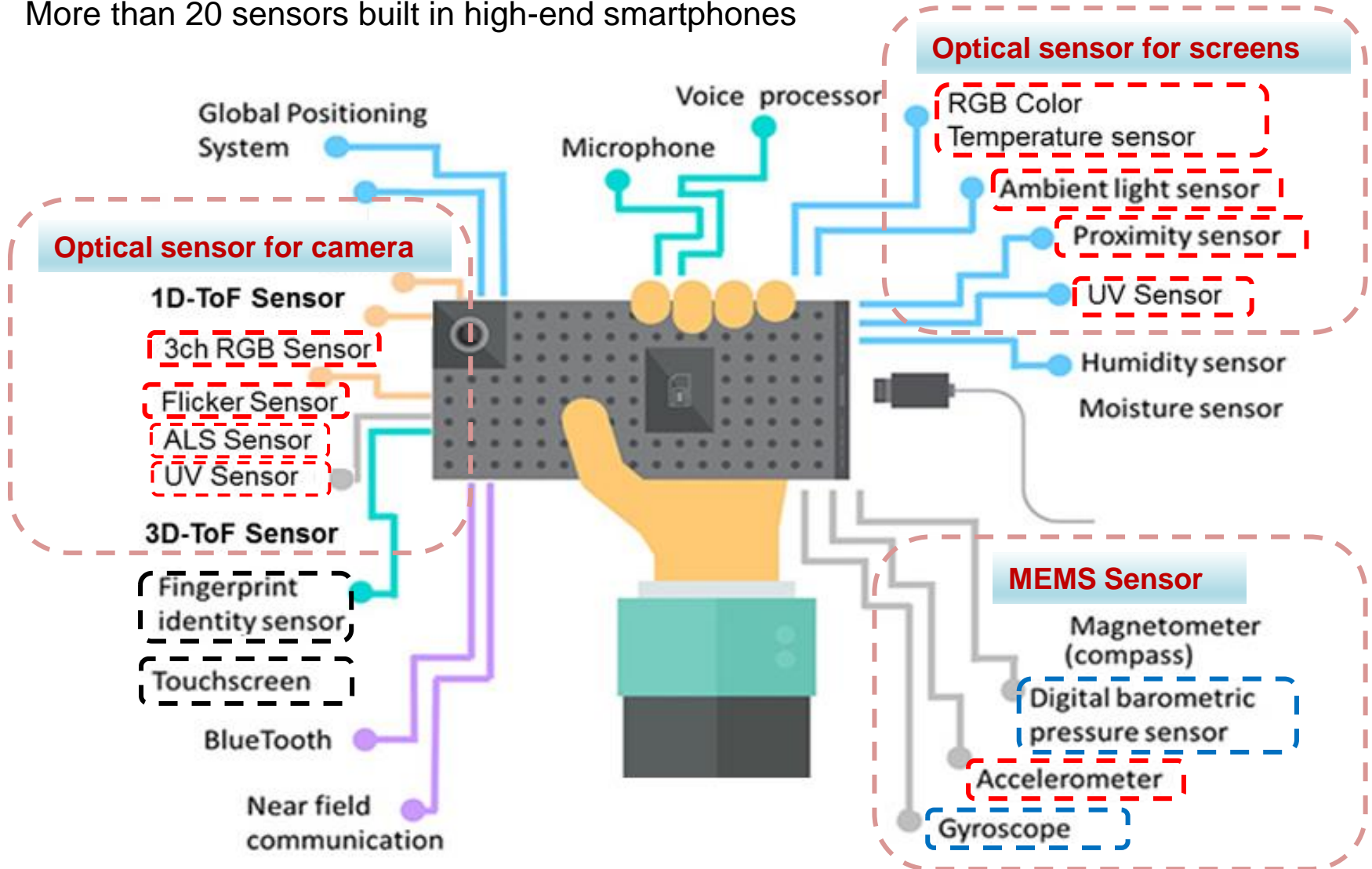
MEMS
Accelerometers
+ Gyroscopes

MEMS
Accelerometers
+ Gyroscopes
+ Pressure sensor

MEMS
Accelerometers
+ Gyroscopes
+ Pressure sensor

Stay Tuned

More than 20 sensors built in high-end smartphones



Growth opportunities

1. Optical sensor for smartphone screens :
 - **High sensitivity PS+ALS** (x6, x10) → AMOLED penetration trend boost ASP
 - **PS+RGB (with ALS)** → color temperature sensor in more high-end smartphone

2. Optical sensor for smartphone rear Cameras :
 - **RGB sensors** → white balance correction in more high-end smartphone
 - **flicker sensors** → flicker detection sensor in more high-end smartphone

3. MEMS sensors in smartphone :
 - **G sensors** → enlarge entry-level smartphone market
 - **Gyroscope sensors (under development)**
 - speed up to entry of mid-to-high-end smartphones

4. Extend to other applications :
 - TWS: proximity sensors & accelerometers
 - Smart watches: ambient light + UV, heartbeat sensor, accelerometers sensor
 - Smart speakers: ambient light sensors
 - AR & VR glasses : proximity sensors & Gyroscopes
 - ...and more (e.g. auto & industrial)



Thank You

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