

Investor Conferences

2Q 2021

Sitronix Technology Corp.
矽創電子股份有限公司
8016: TT

Sitronix

免責聲明

- This presentation includes forward-looking statements. All statements, other than statements of historical facts, that address activities, events or developments that Sitronix 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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公司簡介

公司名稱	矽創電子股份有限公司
成立日期	1998年7月
資本額	40M USD
董事長暨執行長	毛穎文 Vincent Mao
臺灣證券交易所上市	2003年12月 (8016)



Consolidated

矽創電子

Sitronix

Display Driver IC



Incubator since 2009

產品組合

Mobile Displays

Mobile Display Driver IC
手機顯示器

Industrial & Automotive Displays

Automotive Display Driver IC
車載顯示器

Industrial Display Driver IC
工控顯示器

Sensors

SoC

System on Chip (SoC) products
其他非顯示器 IC



Subsidiaries



Subsidiaries

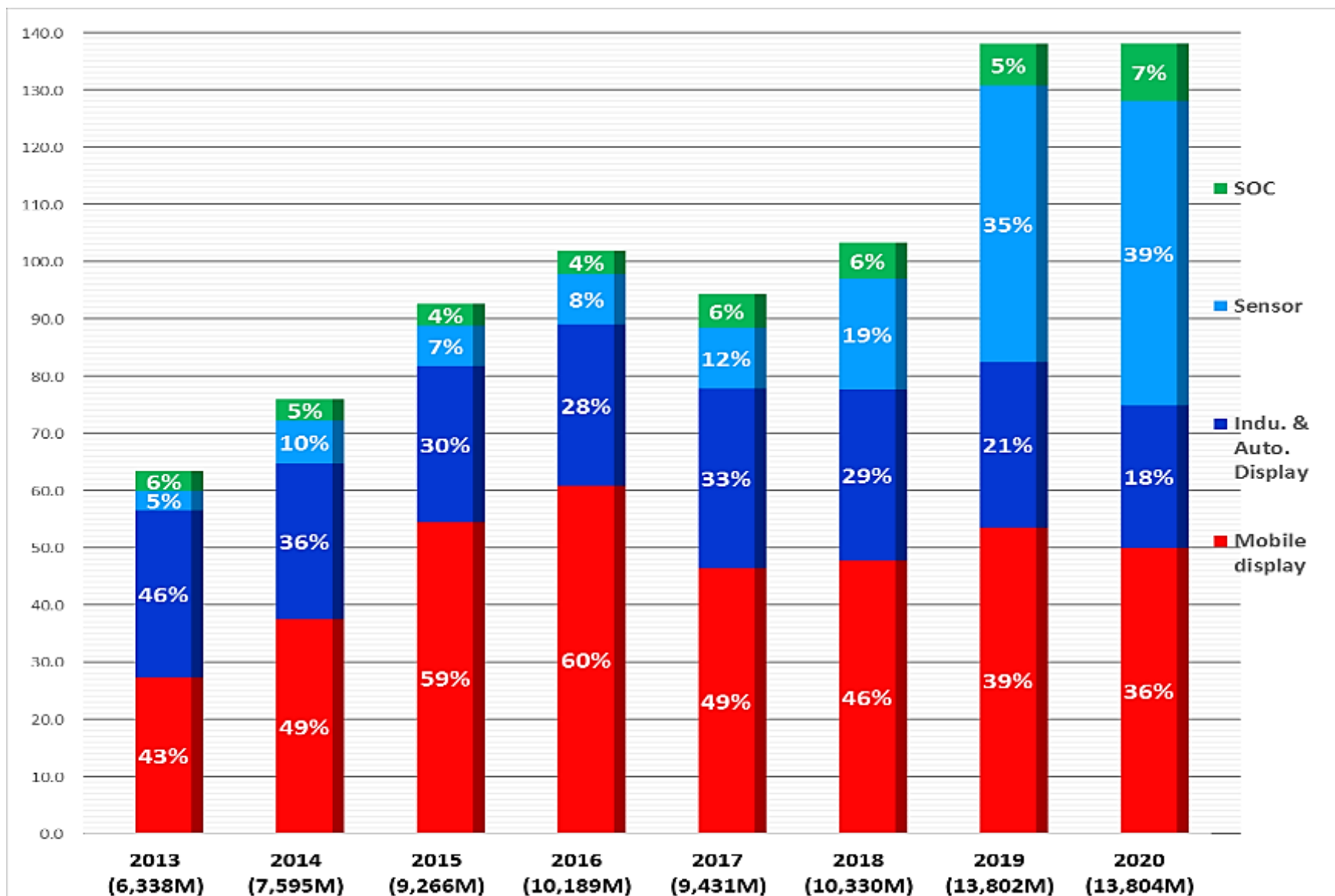


Differentiation

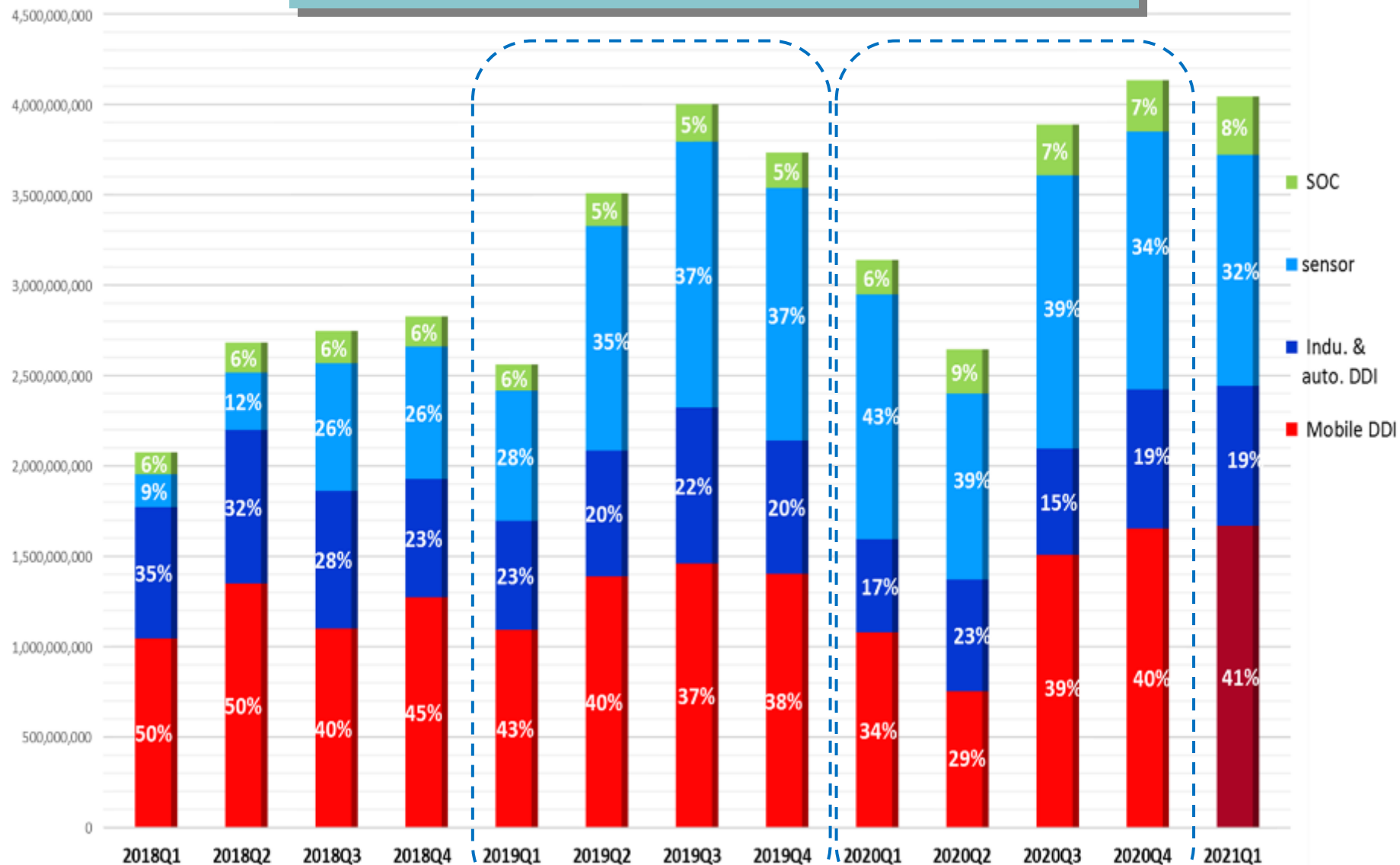
Diversification

Incubator

合併營收_依產品別



季度合併營收_依產品別



Unit: NTD

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8016 Consolidated Income Statement

Item	Q1 21		Q1-Q4 2020		Q4 20		Q3 20		Q2 20		Q1 20	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	4,042,640	-	13,804,562	-	4,132,917	-	3,887,941	-	2,644,857	-	3,138,847	-
Gross Profit	1,906,725	47%	4,785,825	34%	1,595,562	39%	1,253,220	32%	925,366	35%	1,011,677	32%
Operating Expense	769,430	19%	2,495,301	18%	770,858	19%	628,945	16%	525,562	20%	569,936	18%
Operating Income	1,137,566	28%	2,383,048	17%	824,947	20%	624,540	16%	400,466	15%	533,095	17%
Income before Tax	1,157,423	29%	2,523,626	18%	847,825	21%	628,840	16%	497,065	19%	549,896	17%
Net Income*	786,603	19%	1,384,818	10%	485,902	12%	315,601	8%	291,899	11%	291,416	9%
EPS	6.55	-	11.53	-	4.04	-	2.63	-	2.43	-	2.43	-

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

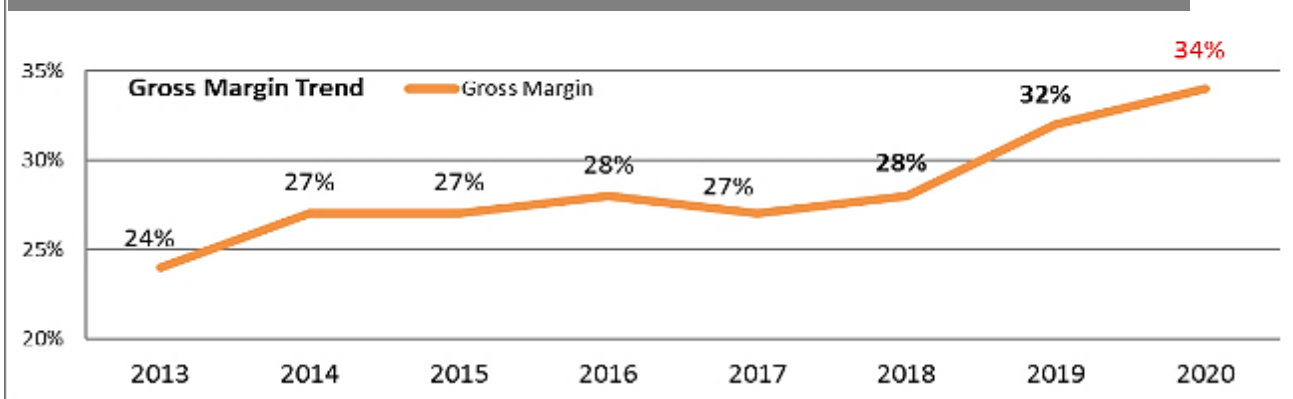
* Listed on the English translation of our financial statements as
"Profit (loss), attributable to owners of parent"

8016 Consolidated Balance Sheet

Item	2021/3/31	2020/12/31	2020/9/30	2020/6/30	2020/3/31
Total Assets	15,205,696	13,816,160	12,691,112	13,313,165	11,315,424
Current Assets	12,168,616	11,544,737	10,741,502	11,320,483	9,386,607
Cash & Equivalents	5,352,063	5,586,541	3,751,335	4,123,024	3,356,031
AR	1,335,828	1,378,563	1,239,710	1,103,291	1,248,372
Inventory	1,778,865	1,543,734	1,818,842	2,495,793	2,387,205
Total Liability	6,341,128	4,537,083	3,886,615	5,046,401	5,630,077
AP	1,965,114	1,893,923	1,616,864	1,411,218	2,065,666
Shareholder Eqt.	8,864,568	9,279,077	8,804,497	8,266,764	5,685,347

Unit: NT\$ thousands
Accounting standard: IFRS

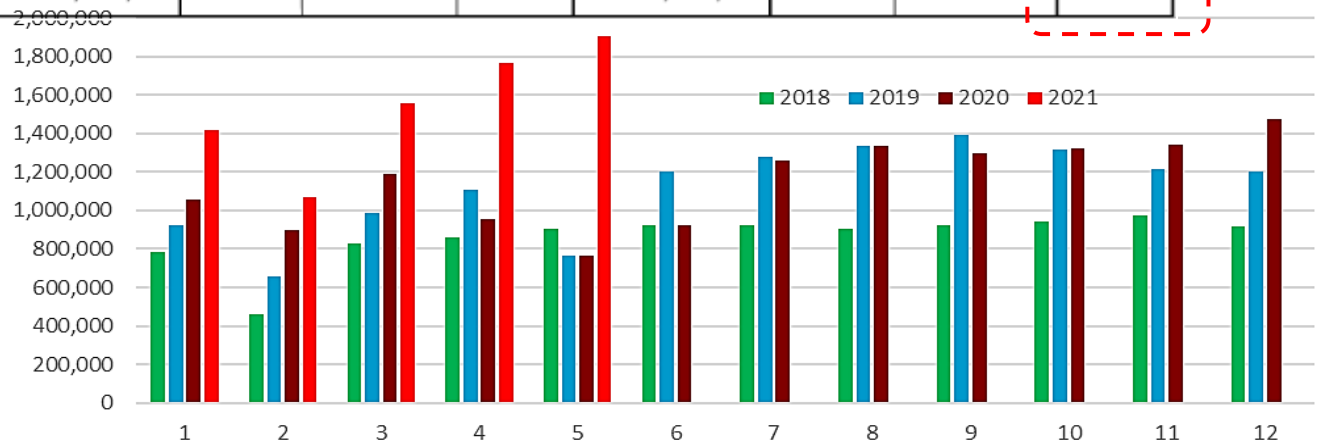
毛利率, EPS, 配息資訊



Year	Q1		Q2		Q3		Q4		Annual		
	EPS	GM	EPS	GM	EPS	GM	EPS	GM	EPS	GM	Cash dividend
2021	6.55	47%									
2020	2.43	32%	2.43	35%	2.63	32%	4.04	39%	11.53	34%	7.5
2019	1.70	33%	2.80	33%	3.22	32%	2.55	30%	10.27	32%	6.5

Sitronix revenue update

(K) ntd	2020	YoY_M	Quarterly amount	YoY_Q	2021	YoY_M	Quarterly amount	YoY_Q
1	1,053,042	14.4%	3,138,847	22.5%	1,418,533	34.7%	4,042,640	28.8%
2	897,852	36.5%			1,069,329	19.1%		
3	1,187,953	20.8%			1,554,779	30.9%		
4	955,769	-13.4%	2,644,857	-24.6%	1,765,268	84.7%		
5	763,403	-36.4%			1,902,983	149.3%		
6	925,685	-23.0%						
7	1,258,731	-1.3%	3,887,941	-2.8%				
8	1,334,015	-0.1%						
9	1,295,195	-6.8%						
10	1,322,850	0.5%	4,132,917	10.7%				
11	1,338,741	10.2%						
12	1,471,326	22.5%						
Total	13,804,562			0.0%	7,710,891			
1-5 yoy	4,858,019				7,710,891			58.7%



手機顯示器驅動 ICs

Small-sized DDIC - zeroCap

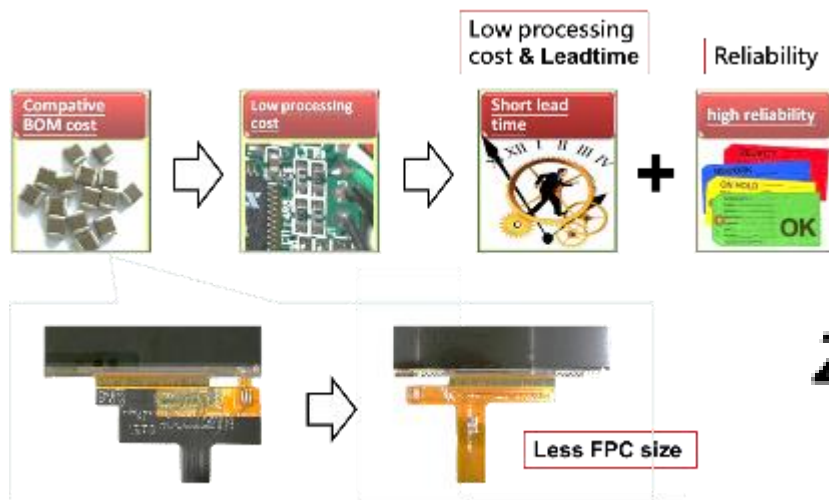
2018: ~ 500M pcs
2019: ~ 400M pcs
2020: ~ 300M pcs

Mobile DDIC - zeroCap

2018: > 130M pcs
2019: > 250M pcs
2020: > 320M pcs



Differentiation: Zero cap. solution



over 70% of Mobile DDI are for AIoT applications

zerocap™

Green Driver.

over 70% of Mobile DDI are for AIoT applications

Tablet & Touch & POS & industrial

- WXGA Tablet
- HD Tablet
- FHD Tablet



Work From Home

- Projector
- Printer
- Sound Station



Wearable

- QQVGA for Band
- QVGA for Watch
- OLED for Band & Watch



Outdoor & Automotive

- Sport Cams
- E-mirror
- Navigator
- Cluster / Knob
- Aerial camera
- CSD / HUD



Medical

- WVGA for Monitor
- Portable Medical
- QQVGA for thermometer



Smart Home

- WVGA for Echo
- QVGA for Door lock
- FHD Tablet



車載顯示器驅動 ICs

Diversification

< 6 inch displays

7 - 9 inch displays

Instrument Cluster Display

Analog



No Display

Hybrid (Analog + Digital)



Meters

Full Digital



Virtual Cockpit



Automobile Monitors



Multi-Function CSD



Display Audio



Climate Control



Twin CSDs
Display Audio
+
Navigation



Rearview Mirror Display



Overhead Monitor



Dual Headrest

Segment TN

Character TN

Graphic STN

Mono TFT

Color TFT



工控類顯示器驅動 ICs

TN / STN / mono TFT / color TFT



光學感測晶片 Optical Sensors

PS + ALS shipment

2018 : >340M pcs

2019 : >650M pcs

2020 : >720M pcs

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)

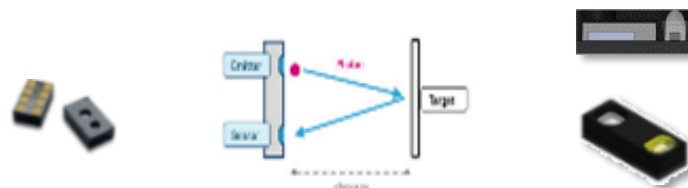
- Under-display 屏下方案 for AMOLED displays
- Slit type 狹縫方案 for TFT displays

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)

- for better reading experience



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



感測器之感度演進 → 單價(ASP)促升

G1: PS + ALS visible solution 1x

G2: PS + ALS invisible solution → sensitivity 3x → 6x → 10x
- Under-display solution for AMOLED

G3: PS + RGB visible solution

G4: PS + RGB invisible solution

水滴屏 (Teardrop-shaped)



全景屏(Full screen)



瀏海屏(Notch type)



開孔屏(Aperture type)



16:9 → 18:9 → 19:9 ...

Upgrading because of increases in...

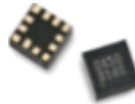
1. Display resolution
2. PPI density
(resulting in a decrease in light transmittance)
3. AMOLED penetration rate

微機電感測晶片 MEMS sensors

Accelerometers (G-sensors)

→ Rotation detection

加速度感測器 → 屏幕旋轉偵測

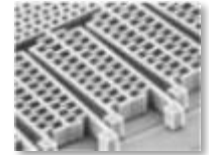


G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

2020 : >80M pcs



✓ G-sensors for smartphones

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



屏幕旋轉
Screen rotation



遊戲
Game control



自動靜音
Automatic mute



感測器：展望未來

1. Optical sensors for smartphone screens 前螢幕應用
 - PS + ALS visible solution 調整顯示亮度
 - High-sensitivity PS + ALS invisible solution → 3x → 6x → 10x sensitivity
 - PS + RGB visible solution 調整顯示色溫 → invisible solution (coming soon!)
2. Optical sensors for smartphone cameras 後相機應用 white balance correction 白平衡校正
 - 3-channel RGB sensors → 6-channel for better color detection (coming soon!)
 - Flicker sensors 閃頻偵測
3. MEMS: Gyroscope 加速MEMS陀螺儀感測器開發
 - Accelerometers + Gyroscopes (2 in 1) for high-end smartphones (coming soon!)
4. Other applications 其他非手機之應用
 - TWS: proximity sensors & accelerometers
 - Smart watches: ambient light + UV, heartbeat sensors, accelerometers
 - Smart speakers: ambient light sensors
 - ...and more (e.g. auto & industrial)

2020年以前

Flagship 旗艦機

Addressable Market
300-400M/year

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

High end 高階機

Addressable Market
300-400M/year

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

Mid range 中階機

Addressable Market
400-500M/year

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

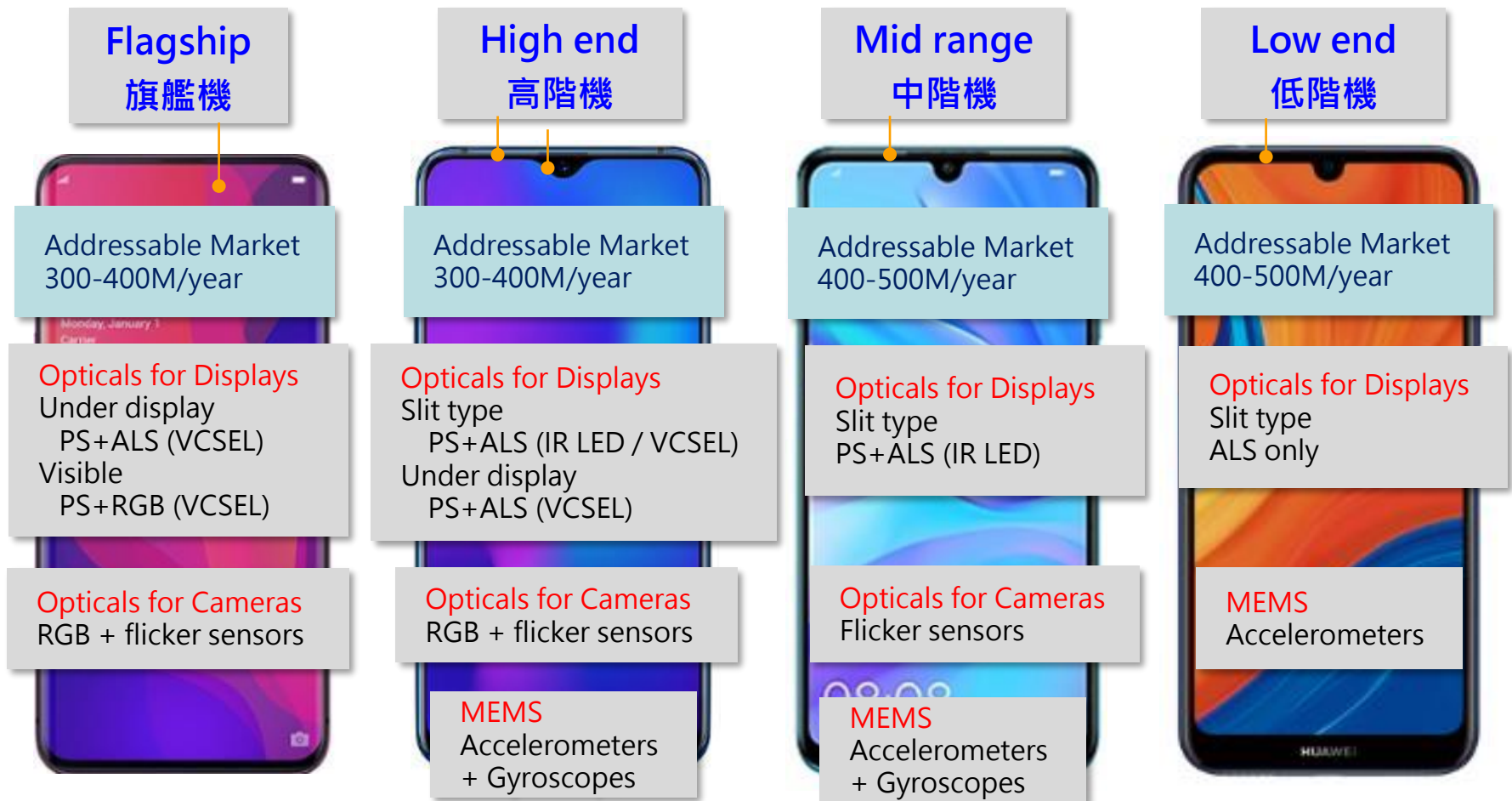
Low end 低階機

Addressable Market
400-500M/year

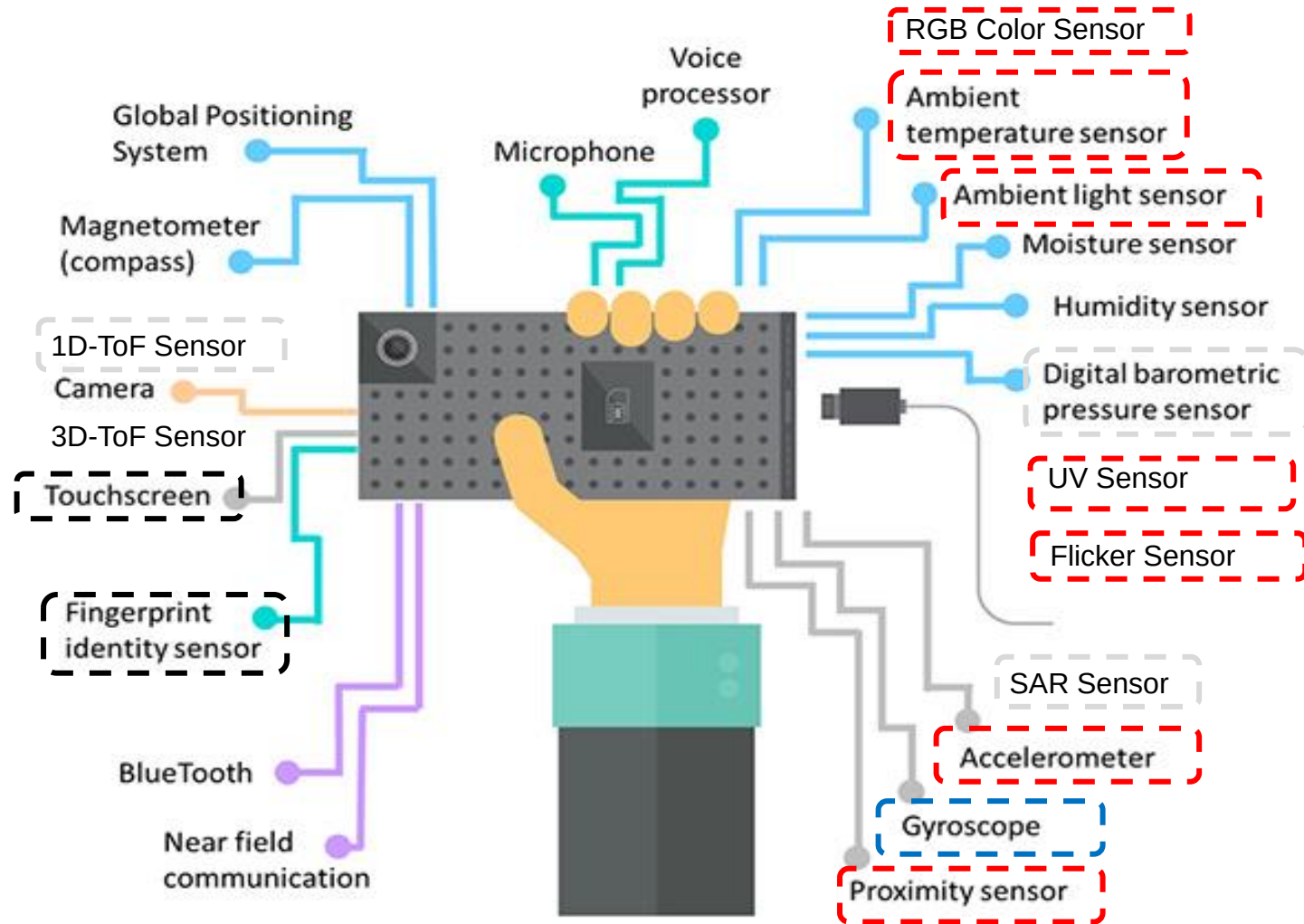
Opticals for Displays
Slit type
ALS only

MEMS
Accelerometers

展望未來



敬請期待

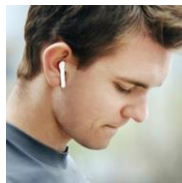


穿戴式裝置： 顯示器IC + 光學感測器 + MEMS + 觸控IC

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



Gesture control



On/off control



Proximity detection (ELA)



Ambient dimming control (Smart speaker)



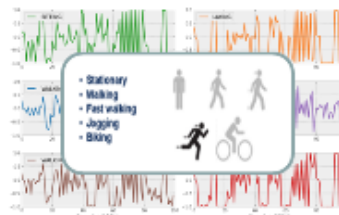
Smart watches & fitness trackers

Accelerometers → motion detection 移動偵測

Optical sensors → heartbeat detection 心律偵測 & UV sensors 紫外線感測



運動偵測 / 計步 Motion detection



抬手亮屏 / 動態心率輔助 Heartbeat detection



睡眠偵測 / 久坐提醒 Sleep quality monitoring



AMADA

Mazak

Makita

HITACHI

Continental

TOYOTA

Ferrari

Mercedes-Benz

BMW

HYUNDAI

BOSCH

Panasonic

cms electronics

SIEMENS

TOKYO ELECTRON

MITSUBISHI ELECTRIC

NISSEI

PHILIPS

KEYSIGHT TECHNOLOGIES

OMRON

EPSON

BRAUN

Schneider Electric

Honeywell

CITIZEN

SAMSUNG

dyson

TCL

SONY

Midea

amazon

LG

Electrolux

NEC

TOTO

Google

Raritan

Itron

三星电气

威胜集团

mi

Jio

Verifone

產品策略

多樣化 (Diversification)

提供完整產品綫, 一站式採購服務
One-stop shopping

分散應用, 分散市場, 降低風險
Risk reduction

高成長+高毛利之產品組合
Balance GM & sales growth

差異化 (Differentiation)

持續創造俱市場競爭力產品
Make existing products better

持續擴展市場滲透率
Market share gains

持續孵化新產品
Incubated new products



Consolidated



Incubator since 2009

We'd love to hear from you!

Strategic Marketing Director

Jacky Chou 周德雲

Tel: +886-2-2659 1276 ext 2206

E-mail: jacky_chou@sitronix.com.tw

Investor Relations Officer

Vivian Mao 毛廷方

Tel: +886-2-2659 1276 ext 2395

E-mail: vivian_mao@sitronix.com.tw

Website: <http://www.sitronix.com.tw>

Taipei office:

6F., No. 608, Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan

台北市內湖區瑞光路608號6樓

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