

Investor Conferences

4Q 2021

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

Sitronix

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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

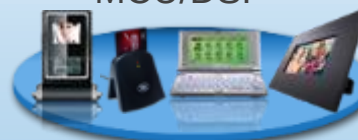
Display Driver IC



鈺創電子(91%)

mCore

MCU/DSP



合肥創發微電子(90%)

HFST

Touch & Fingerprint IC



力領科技(100%)

FORCELEAD



極創電子(58%)

INFST

Power Management IC



Incubator since 2009

產品組合

Mobile Displays

Mobile Device Display Driver IC



Sitronix

Industrial Displays

Industrial Display Driver IC



Auto Displays

Automotive Display Driver IC



Subsidiaries



FORCELEAD

Sensors

Sensor & SoC (System on chip)



Subsidiaries



sensortek



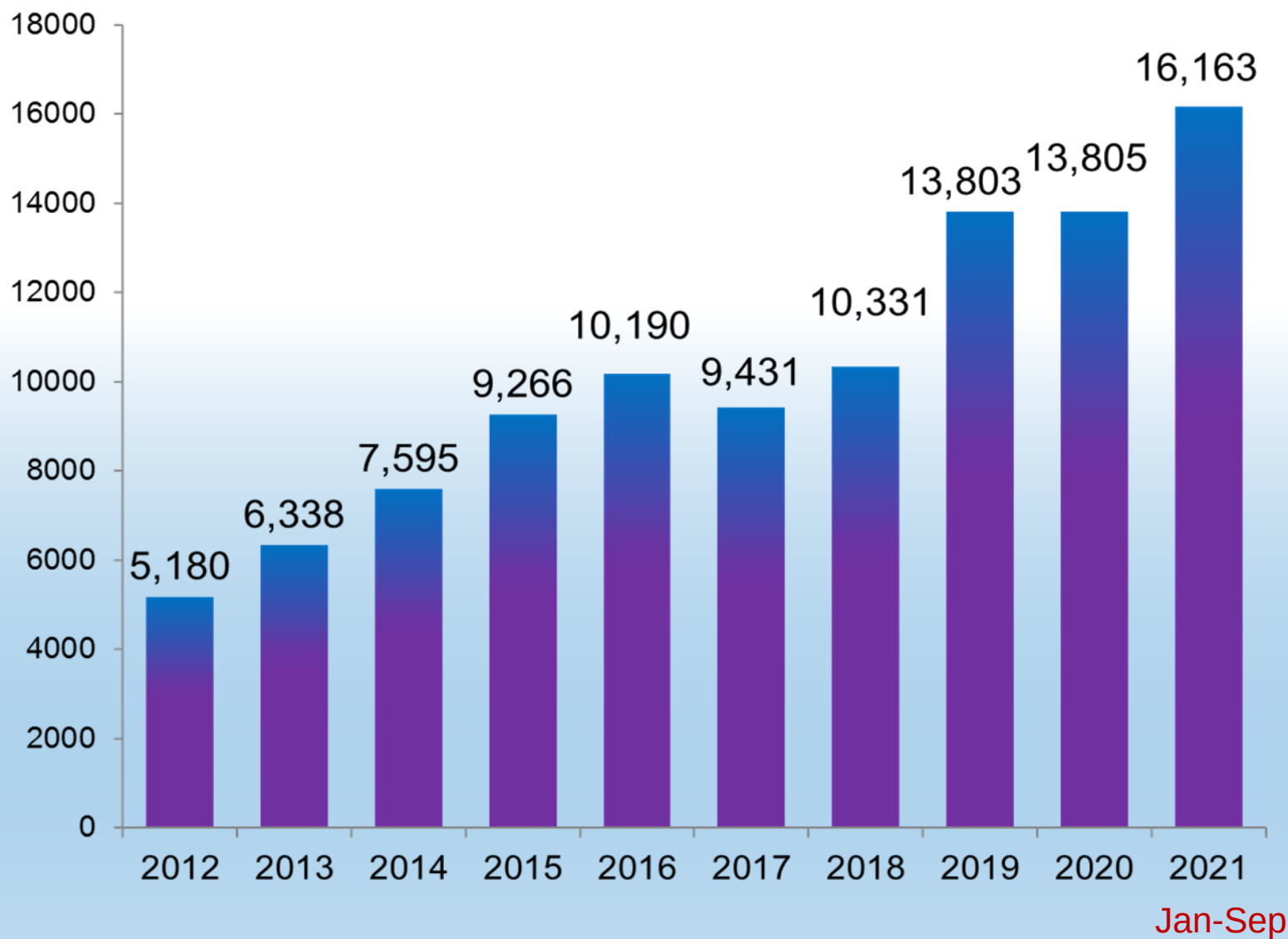
mCore



Differentiation

Incubator

矽創集團合併營收



損益表

Item	Q2 2021		Q1 2021		Q1-Q4 2020		Q4 2020		Q3 2020		Q2 2020	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	5,534,516	-	4,042,640	-	13,804,562	-	4,132,917	-	3,887,941	-	2,644,857	-
Gross Profit	3,146,831	57%	1,906,725	47%	4,785,825	34%	1,595,562	39%	1,253,220	32%	925,366	35%
Operating Expense	1,058,320	19%	769,430	19%	2,495,301	18%	770,858	19%	628,945	16%	525,562	20%
Net other income (expenses)	6,110	0%	271	0%	92,524	1%	243	0%	265	0%	662	0%
Operating Income	2,094,621	38%	1,137,566	28%	2,383,048	17%	824,947	20%	624,540	16%	400,466	15%
Income before Tax	2,144,026	39%	1,157,423	29%	2,523,626	18%	847,825	21%	628,840	16%	497,065	19%
Net Income*	1,560,121	28%	786,603	19%	1,384,818	10%	485,902	12%	315,601	8%	291,899	11%
EPS	13.00	-	6.55	-	11.53	-	4.04	-	2.63	-	2.43	-

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

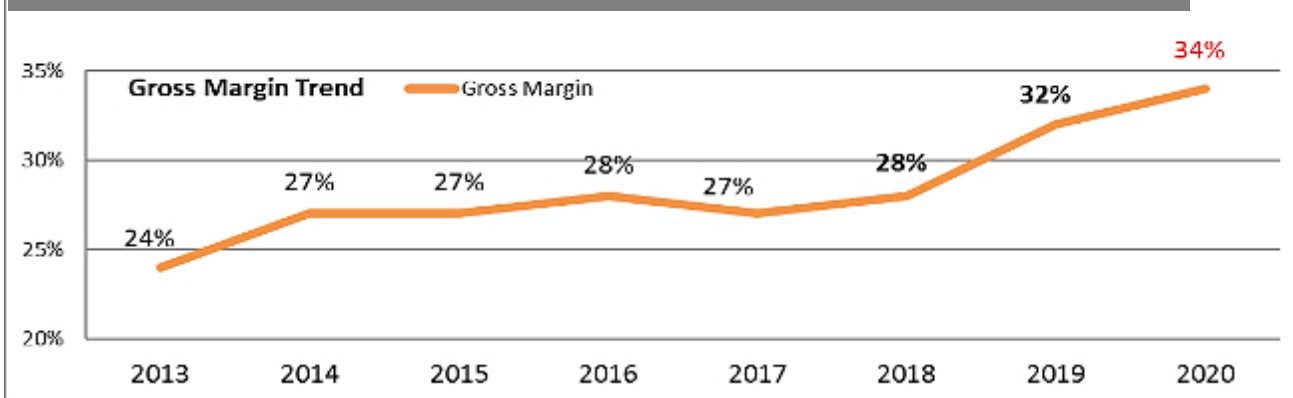
* Listed on the English translation of our financial statements as
"Profit (loss), attributable to owners of parent"

資產負債表

Item	2021/6/30	2021/3/31	2020/12/31	2020/9/30	2020/6/30
Total Assets	18,007,392	15,205,696	13,816,160	12,691,112	13,313,165
Current Assets	14,619,722	12,168,616	11,544,737	10,741,502	11,320,483
Cash & Equivalents	8,189,048	5,352,063	5,586,541	3,751,335	4,123,024
AR	1,652,183	1,335,828	1,378,563	1,239,710	1,103,291
Inventory	1,980,952	1,778,865	1,543,734	1,818,842	2,495,793
Total Liability	7,263,450	6,341,128	4,537,083	3,886,615	5,046,401
AP	2,089,573	1,965,114	1,893,923	1,616,864	1,411,218
Shareholder Eqt.	10,743,942	8,864,568	9,279,077	8,804,497	8,266,764

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%	13.00	57%							
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
2018	1.10	24%	1.82	24%	2.37	33%	1.74	30%	7.03	28%	5.0

手機顯示器驅動 ICs

Small-sized DDIC (1-3 inch displays)

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

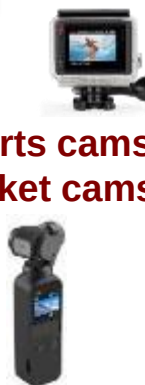
4G kids' watches



Fitness trackers



Sports cams
Pocket cams



Mid-sized DDIC (4-6 inch displays)

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



Smart speaker



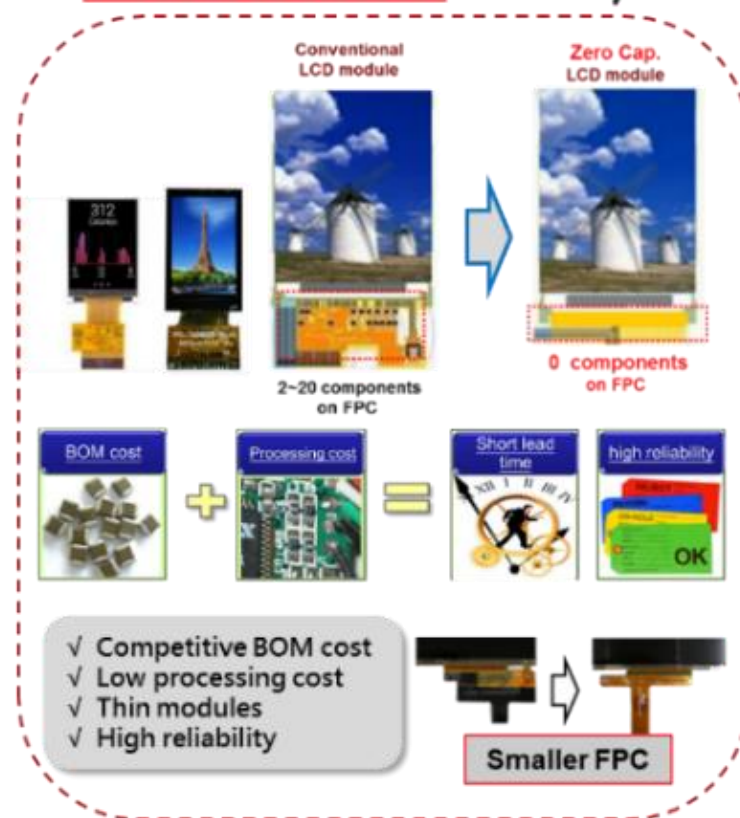
Payment terminal



Differentiation

Sitronix's Patents

zerocap



over 70% of Mobile DDI are for AIoT applications

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



Medical

- WVGA for Monitor
- Portable Medical
- QQVGA for thermometer



Smart Home

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



工控類顯示器驅動 ICs

Diversification

TN / STN / mono TFT / color TFT



車載顯示器驅動 ICs

< 6 inch displays

7 - 9 inch displays

Diversification

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



Optical Sensors 光學感測晶片

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

2018 : >340M pcs

2019 : >650M pcs

2020 : >720M 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



Optical Sensors 光學感測晶片

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. The white balance is automatically corrected and adjusted based on the color temperatures measured by the RGB color temperature sensor and the image sensor. 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。

3ch RGB + flicker shipment

2020 : 0

2021 : Stay Tuned



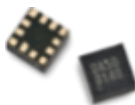
1. White balance (auto) with flash
2. White balance (auto) without flash
3. White balance (fluorescent lamp) without flash
4. White balance (warm lighting) without flash
5. White balance (cold lighting) without flash
6. White balance (daylight) without flash



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 微機電感測晶片



G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

2020 : >80M pcs

Accelerometers (G-sensors)

→ Rotation detection

加速度感測器 → 屏幕旋轉偵測

✓ G-sensors for smartphones

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



屏幕旋轉
Screen rotation



自動靜音
Automatic mute



遊戲
Game control



手勢偵測
Gesture detection



接聽輔助
Answering aid



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)

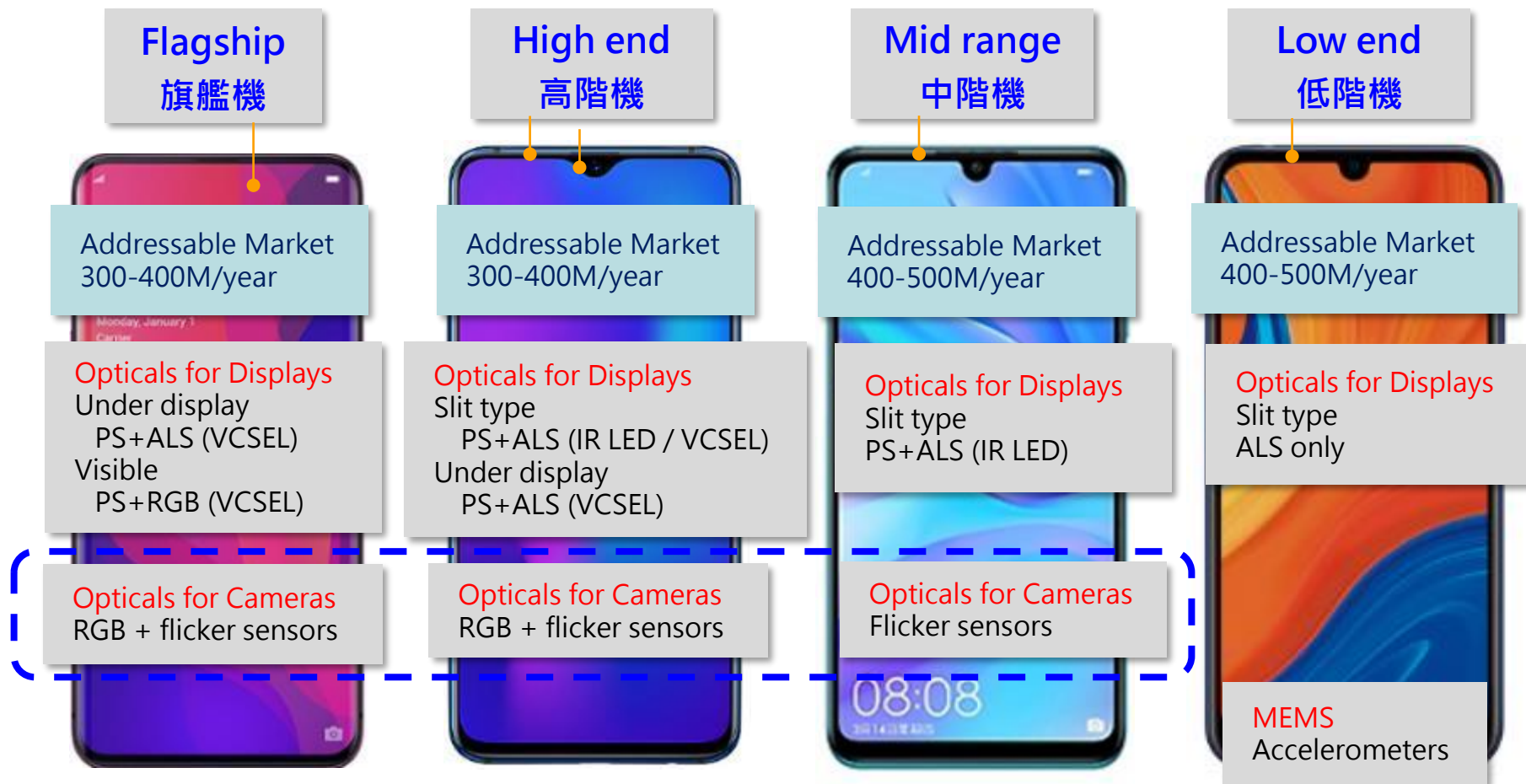
Low end 低階機

Addressable Market
400-500M/year

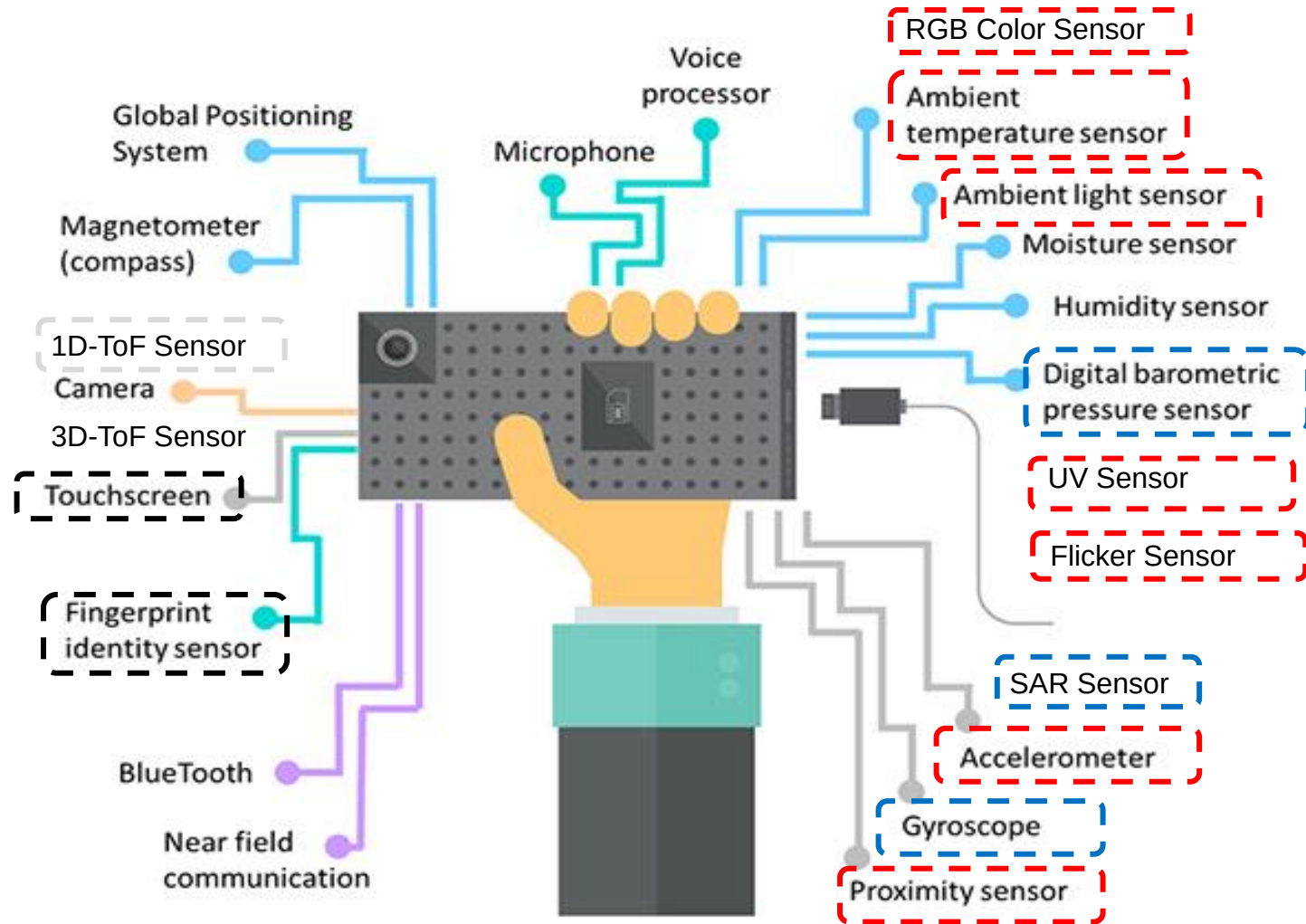
Opticals for Displays
Slit type
ALS only

MEMS
Accelerometers

2021: 三個感知器參與手機應用



敬請期待

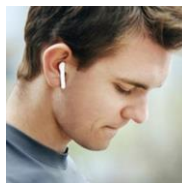


穿戴式裝置： 顯示器IC + 光學感測器 + MEMS + 觸控IC

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)



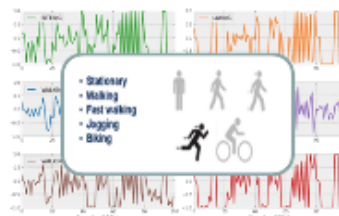
Smart watches & fitness trackers

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



支持 AIoT 相關解決方案



AMADA **Mazak**

Makita

HITACHI
Inspire the Next

Continental
The Power of Rubber

TOYOTA

Ferrari

Mercedes-Benz

BMW

HYUNDAI

BOSCH **Panasonic**

cms **SIEMENS**
electronics

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
Know more. Manage smarter

Itron

三星电气
SAMSUNG ELECTRIC

威胜集团
Weisheng Group

mi

Jio

Verifone

NOKIA

HUAWEI

LANDI 联迪 **ASUS**

小天才 **TECNO**
mobile

GoPro

GARMIN

hp

LEGO

KYOCERA

Gigaset

FUJI XEROX

AVAYA **brother**

LEXMARK

DENSO **ALPS** **ALPINE**
Entering the Core

YAMAHA

BHTC
COMFORT IN MOTION

VOLVO

MITSUBISHI

VW

SKODA AUTO



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



We'd love to hear from you!

Strategic investment 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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