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

Investor Conferences

About Sitronix

Company Name	Sitronix Technology Corp.
Established	July 9, 1998
Capitalization	TWD 1.2 billion
Chairman and CEO	Vincent Mao
IPO Listing	December 25, 2003 (8016)

Consolidated

矽創電子

Sitronix

Display Driver IC

鈊創電子(91%)

mCore

MCU/DSP

昇佳電子(46%)

sensortek

Sensor IC

合肥創發微電子(90%)

HFST

Touch & Fingerprint IC

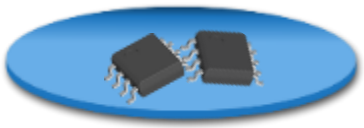
力領科技(100%)

FORCELEAD

極創電子(58%)

INFST

Power Management IC



Incubator since 2009

Product Portfolio

Mobile Displays | **Industrial & Automotive Displays** | **Sensors** | **SoC**

Mobile Display Driver IC
手機顯示器

Automotive Display Driver IC
車載顯示器

Industrial Display Driver IC
工控顯示器

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

Subsidiary

FORCELEAD

Sitronix

Subsidiaries

mCore

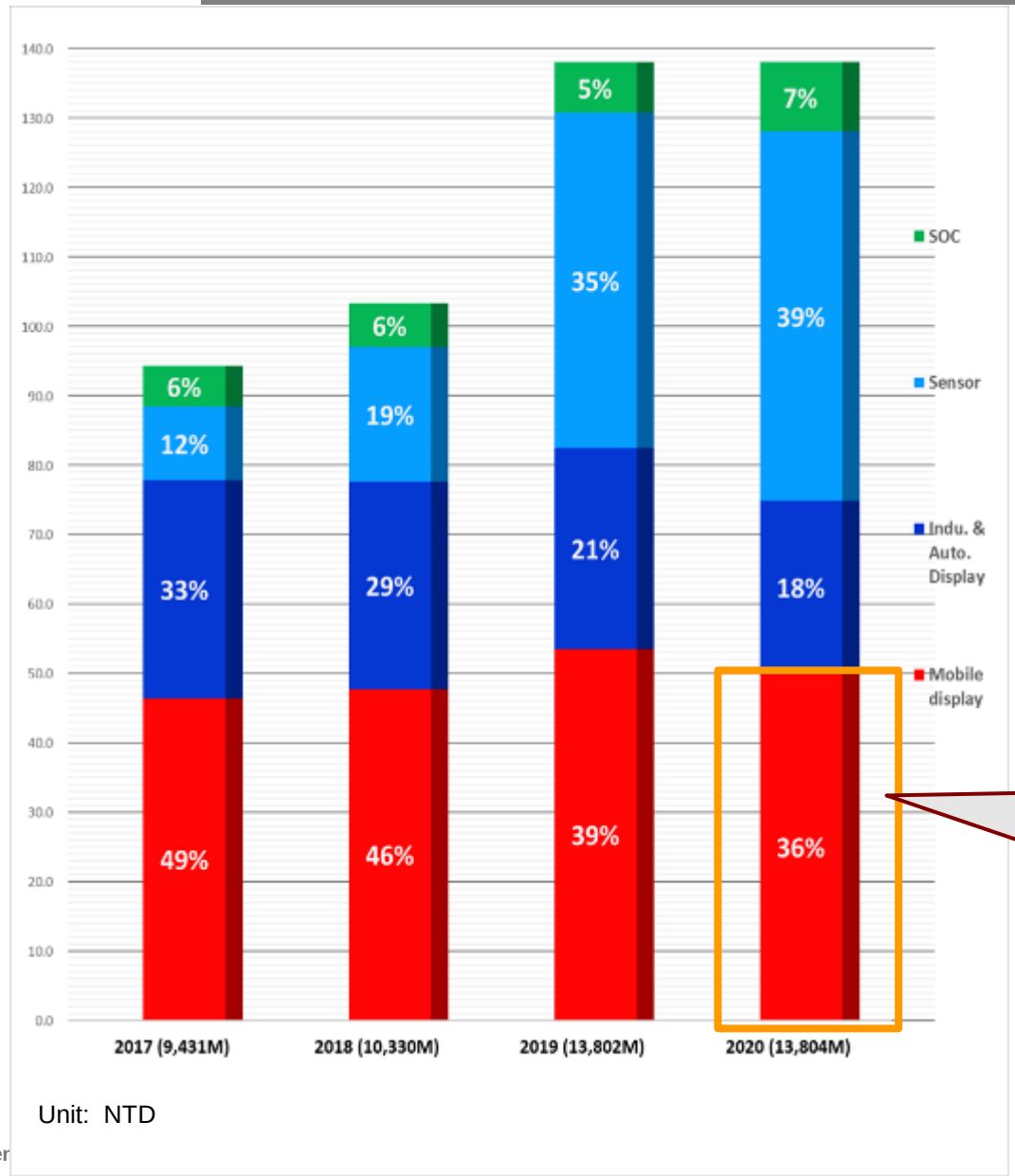
INFST

sensortek

HFST

Differentiation | **Diversification** | **Incubator**

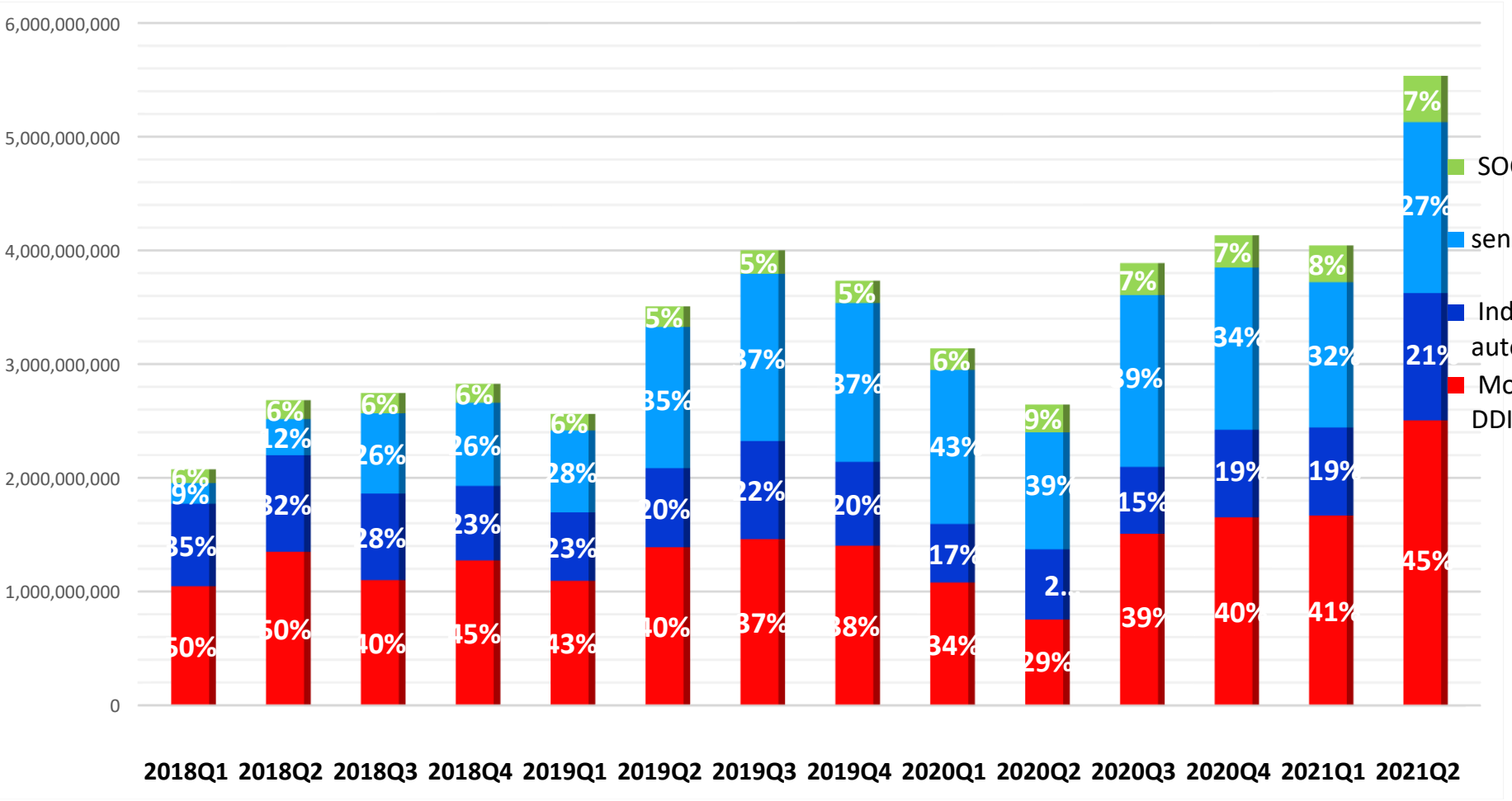
Product Mix



Unit: NTD

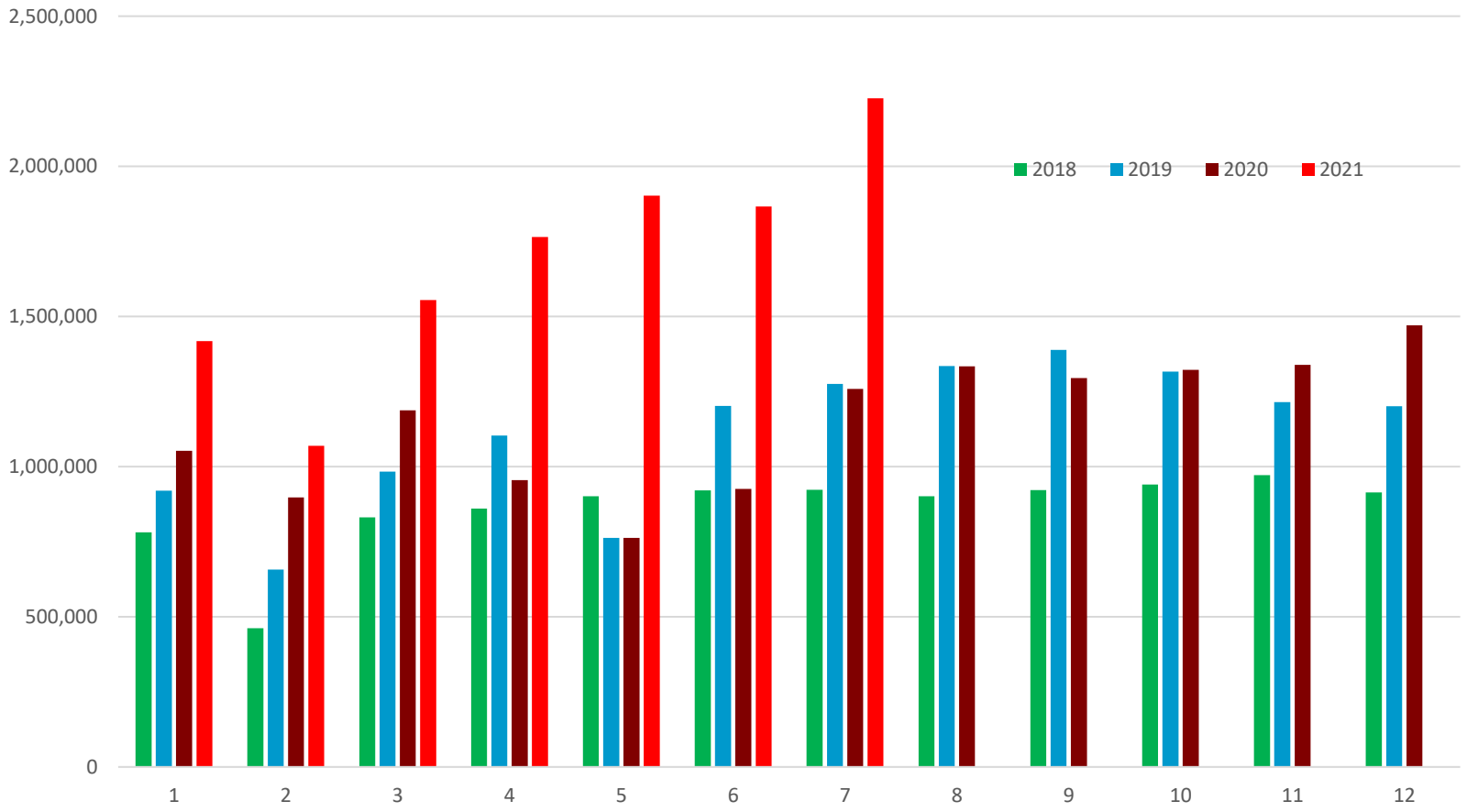
> 70% AIoT
< 30% cell phones

Revenue by Product



Unit: NTD

Monthly Revenue



Unit: NT$ thousands
Accounting standard: IFRS

Consolidated Income Statement

Item	Q2 21		Q1 21		2020 annual		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	Results	% of sales
Net Sales	5,534,516	100%	4,042,640	100%	13,804,562	100%	4,132,917	100%	3,887,941	100%	2,644,857	100%	3,138,847	100%
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%	1,011,677	32%
Operating Expense	1,058,320	19%	769,430	19%	2,495,301	18%	770,858	19%	628,945	16%	525,562	20%	569,936	18%
Operating Income	2,094,621	38%	1,137,566	28%	2,383,048	17%	824,947	20%	624,540	16%	400,466	15%	533,095	17%
Income before Tax	2,144,026	39%	1,157,423	29%	2,523,626	18%	847,825	21%	628,840	16%	497,065	19%	549,896	17%
Net Income*	1,560,121	28%	786,603	19%	1,384,818	10%	485,902	12%	315,601	8%	291,899	11%	291,416	9%
EPS	13.00	-	6.55	-	11.53	-	4.04	-	2.63	-	2.43	-	2.43	-

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

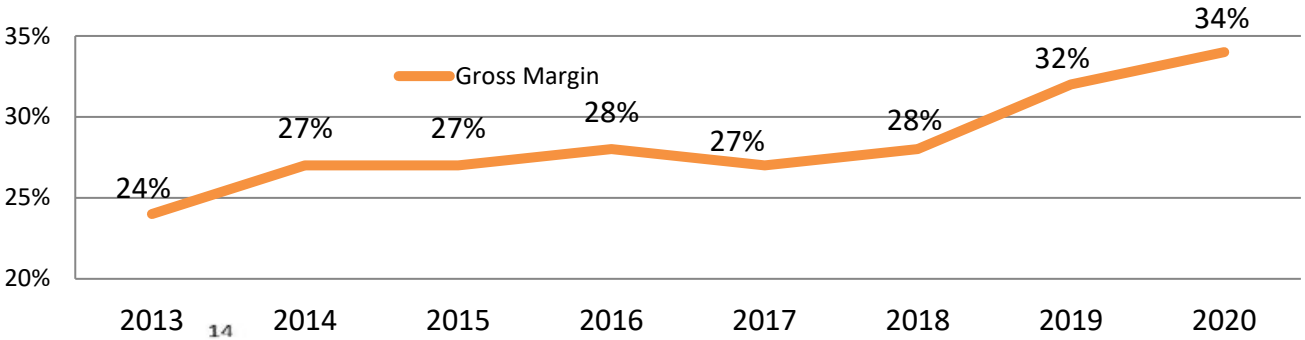
* Listed on the English translation of our financial statements as "Profit (loss), attributable to owners of parent"

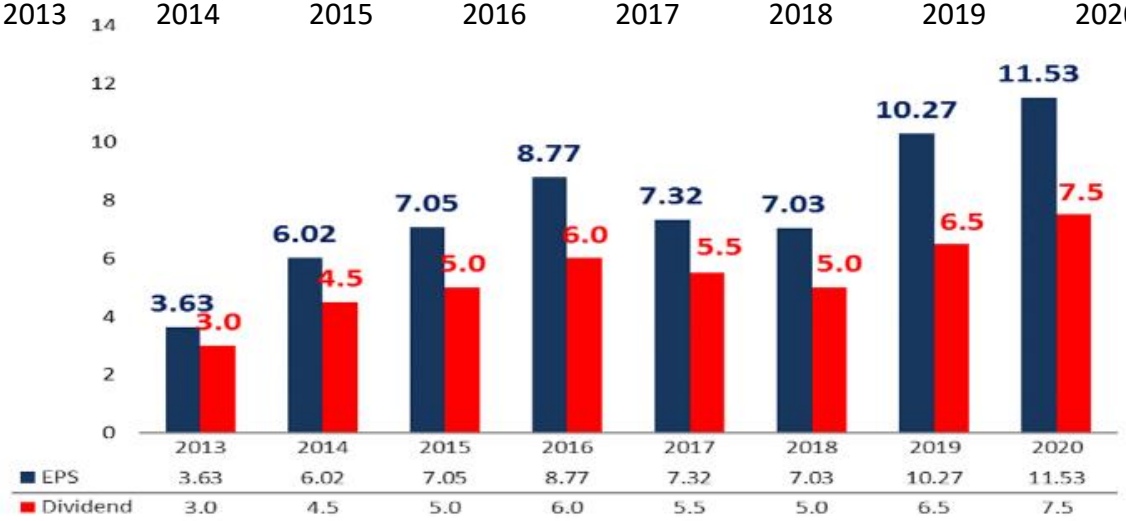
Consolidated Balance Sheet

Item	2021/6/30	2021/3/31	2020/12/31	2020/9/30	2020/6/30	2020/3/31
Total Assets	18,007,392	15,205,696	13,816,160	12,691,112	13,313,165	11,315,424
Current Assets	14,619,722	12,168,616	11,544,737	10,741,502	11,320,483	9,386,607
Cash & Equivalents	8,189,048	5,352,063	5,586,541	3,751,335	4,123,024	3,356,031
AR	1,652,183	1,335,828	1,378,563	1,239,710	1,103,291	1,248,372
Inventory	1,980,952	1,778,865	1,543,734	1,818,842	2,495,793	2,387,205
Total Liability	7,263,450	6,341,128	4,537,083	3,886,615	5,046,401	5,630,077
AP	2,089,573	1,965,114	1,893,923	1,616,864	1,411,218	2,065,666
Shareholder Eqt.	10,743,942	8,864,568	9,279,077	8,804,497	8,266,764	5,685,347

Unit: NT$ thousands
Accounting standard: IFRS

GM, EPS, and Dividends





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

Mobile Device DDIC

Small-sized DDIC (1-3 inch displays)

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

4G kids' watches

Sports cams
Pocket cams

Fitness trackers

Mid-sized DDIC (4-6 inch displays)

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

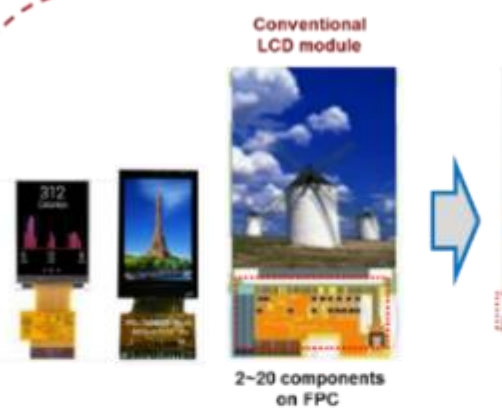
Smart speaker

Payment terminal

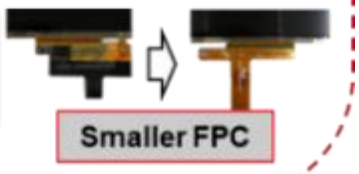
Differentiation

Sitronix's Patents

zerocap



√ Competitive BOM cost
√ Low processing cost
√ Thin modules
√ High reliability



Over 70% of Mobile DDIs are for AIoT Applications

Tablets / payment terminal

- WXGA for tablets
- HD for tablets
- FHD for tablets

Work from home

- Projectors
- Printers
- Sound systems

Wearable devices

- QQVGA for fitness trackers
- QVGA for watches
- OLED for fitness trackers & watches

Automotive & outdoors

- Sports cams
- Navigators
- Aerial cameras
- CSD / HUD
- E-mirrors
- Cluster / Knob

Medical devices

- WVGA for monitors
- QQVGA for thermometers

Smart Home

- WVGA for Echo
- QVGA for door locks
- FHD for tablets

Automotive Display Driver ICs

< 6 inch displays

Instrument Cluster Display

Analog

No Display

Hybrid (Analog + Digital)

Meters

Full Digital

Virtual Cockpit

7 - 9 inch displays

Automobile Monitors

Multi-Function CSD

Display Audio

Climate Control

Twin CSDs Display Audio + Navigation

Rearview Mirror Display

Overhead Monitor

Dual Headrest

Diversification

- Segment TN
- Character TN
- Graphic STN
- Mono TFT
- Color TFT

Industrial Display Driver ICs

Diversification

TN / STN / mono TFT / color TFT

Ultra Low Power a-TFT Drivers

for new applications

IoT, wearable devices, e-payment

光學感測晶片
Optical Sensors

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

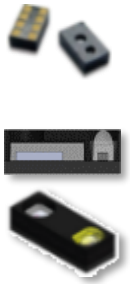
G1: PS + ALS 2-in-1 visible solution (2010)
G2: PS + ALS 2-in-1 invisible solution (2018)
- Under-display 屏下方案 for AMOLED displays
- Slit type 狹縫方案 for TFT displays

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

Camera RGB sensors
色溫感測晶片 → 協助後相機白平衡校正
white balance correction (2020)

Flicker detection sensors
閃頻偵測晶片 → 協助消除光源物理閃爍
Flicker detection (2020)



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

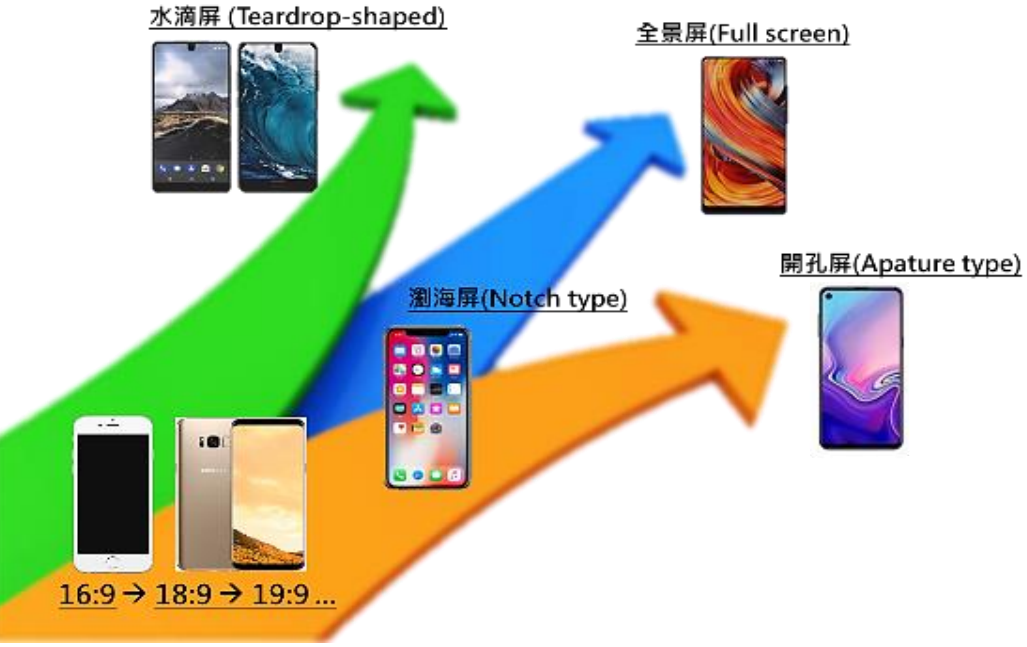
Sensitivity Upgrades → ASP Boosts

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



Upgrading because of increases in…
1. Display resolution
2. PPI density
   (resulting in a decrease in light transmittance)
3. AMOLED penetration rate

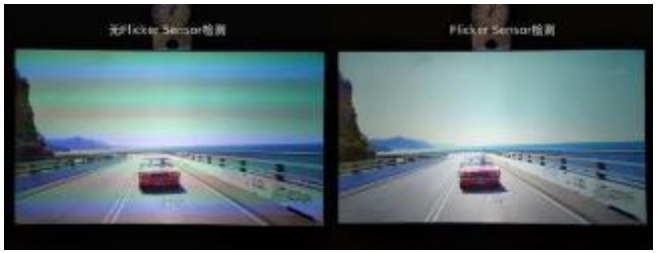
RGB + Flicker Sensors for Smartphone Cameras

RGB Sensors

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.

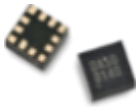
Flicker Sensors

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



微機電感測晶片
MEMS sensors

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

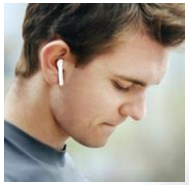
遊戲
Game control

手勢偵測
Gesture detection

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



FreeBuds 3

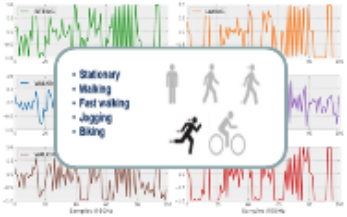
敲擊偵測 Click detection

- **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 紫外線感測

運動偵測 / 計步
Motion detection

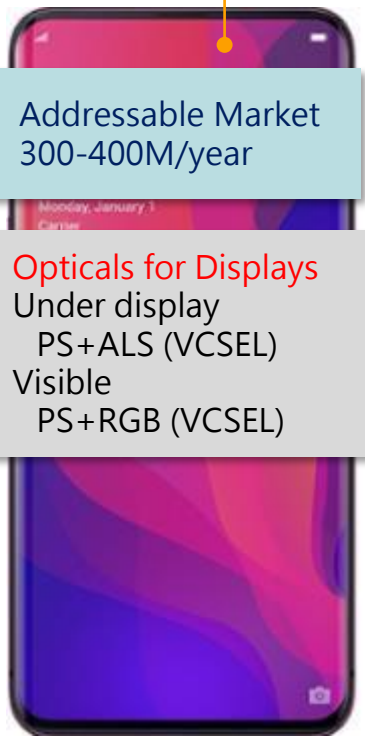


抬手亮屏 / 動態心率輔助
Heartbeat detection

睡眠偵測 / 久坐提醒
Sleep quality monitoring

2020

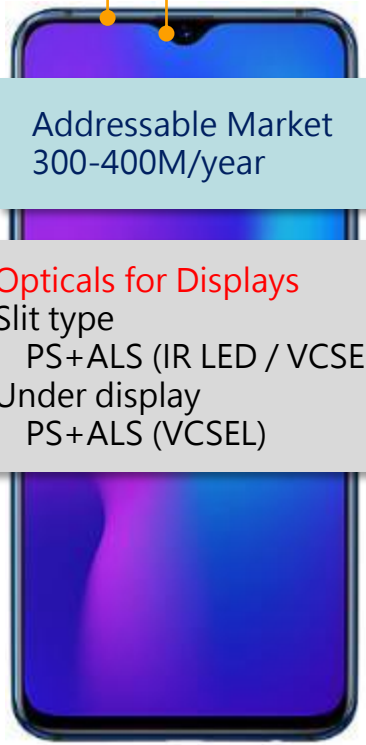
Flagship
旗艦機



Addressable Market
300-400M/year

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

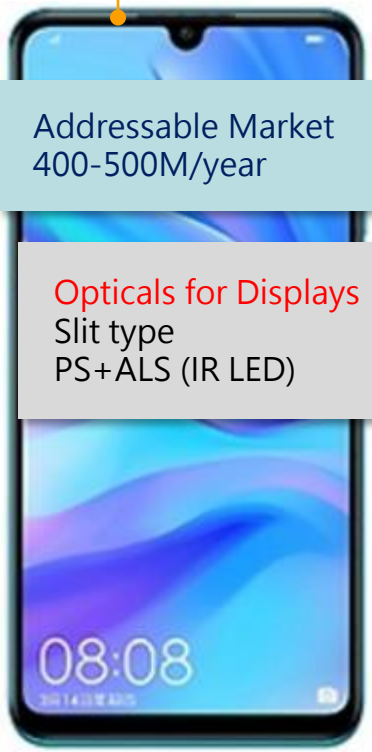
High end
高階機



Addressable Market
300-400M/year

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

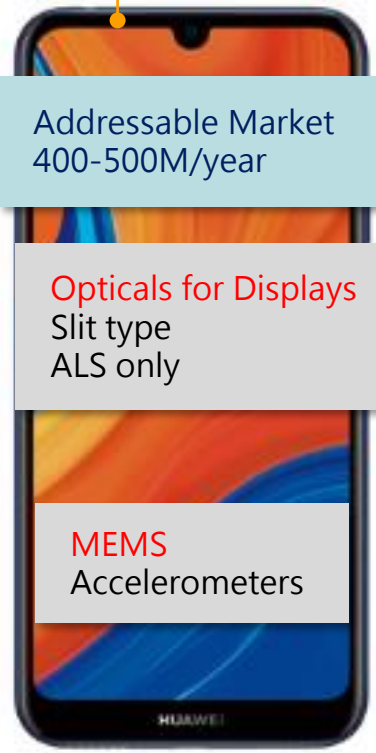
Mid range
中階機



Addressable Market
400-500M/year

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

Low end
低階機

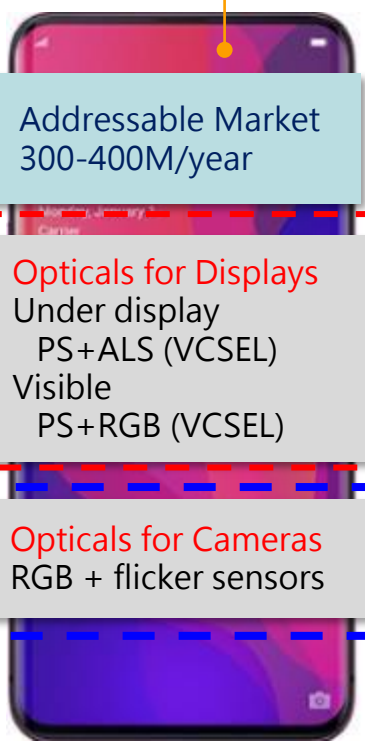


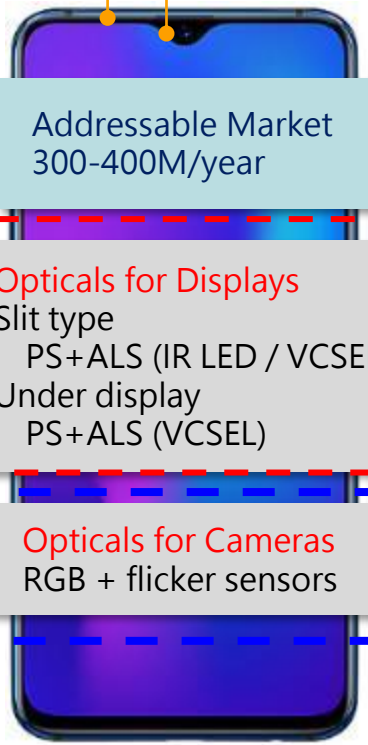
Addressable Market
400-500M/year

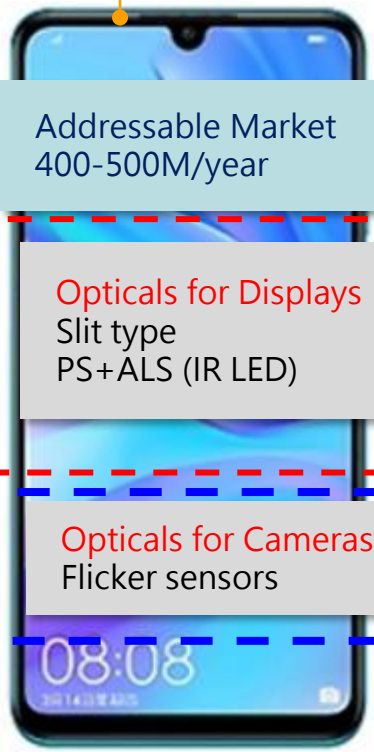
Opticals for Displays
Slit type
ALS only

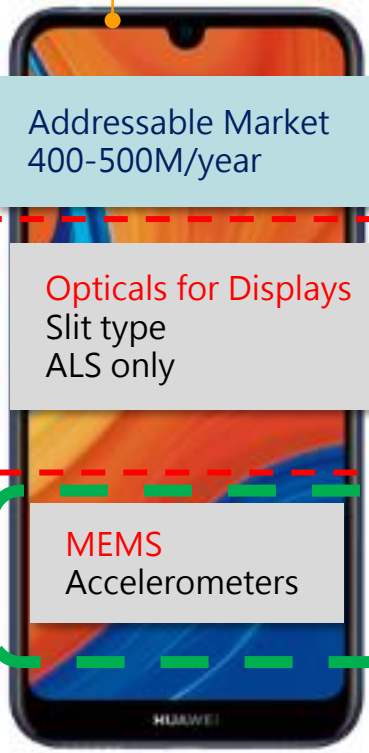
MEMS
Accelerometers

2021









Flagship
旗艦機

Addressable Market
300-400M/year

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

Opticals for Cameras
RGB + flicker sensors

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)

Opticals for Cameras
RGB + flicker sensors

Mid range
中階機

Addressable Market
400-500M/year

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

Opticals for Cameras
Flicker sensors

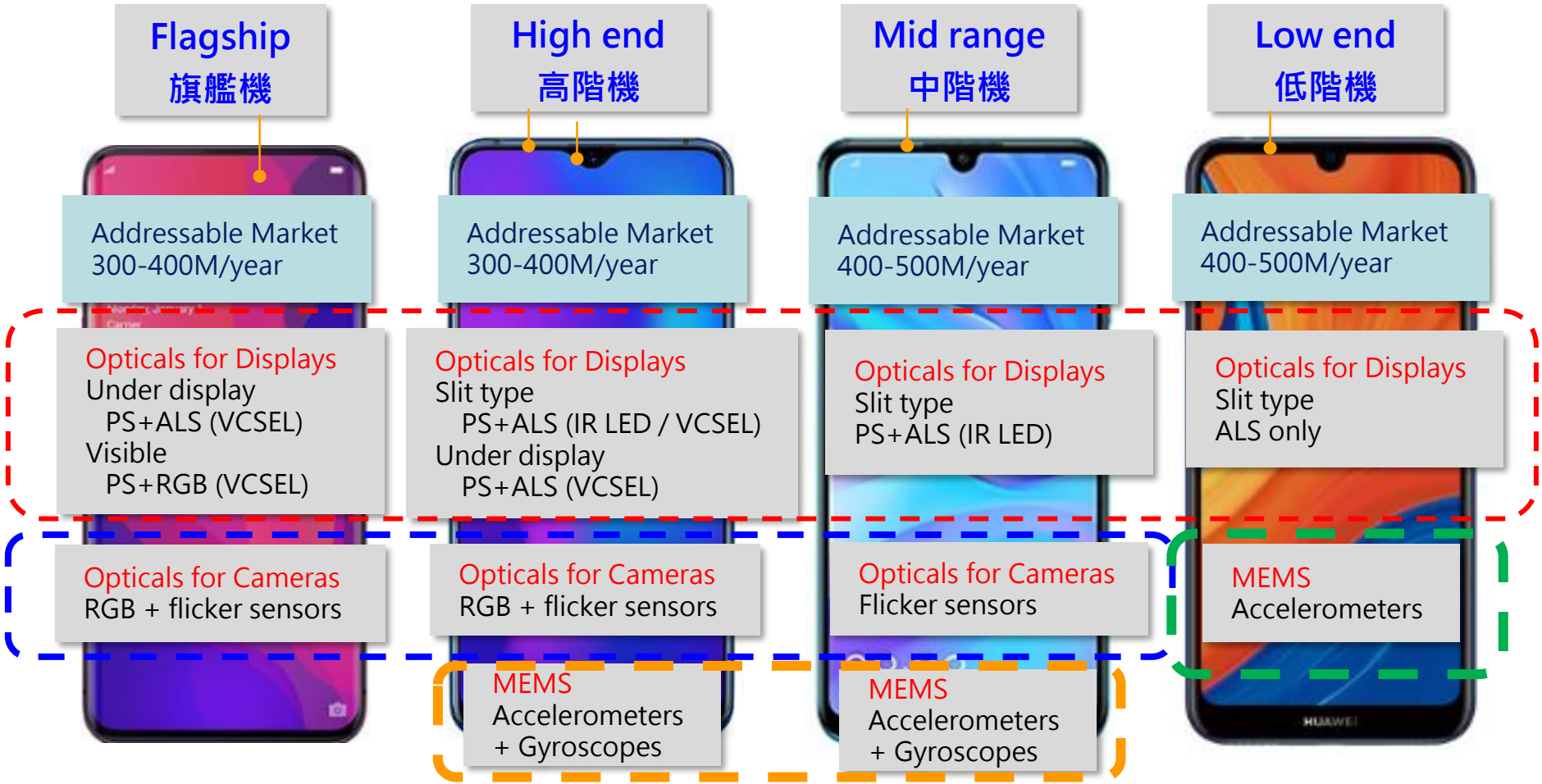
Low end
低階機

Addressable Market
400-500M/year

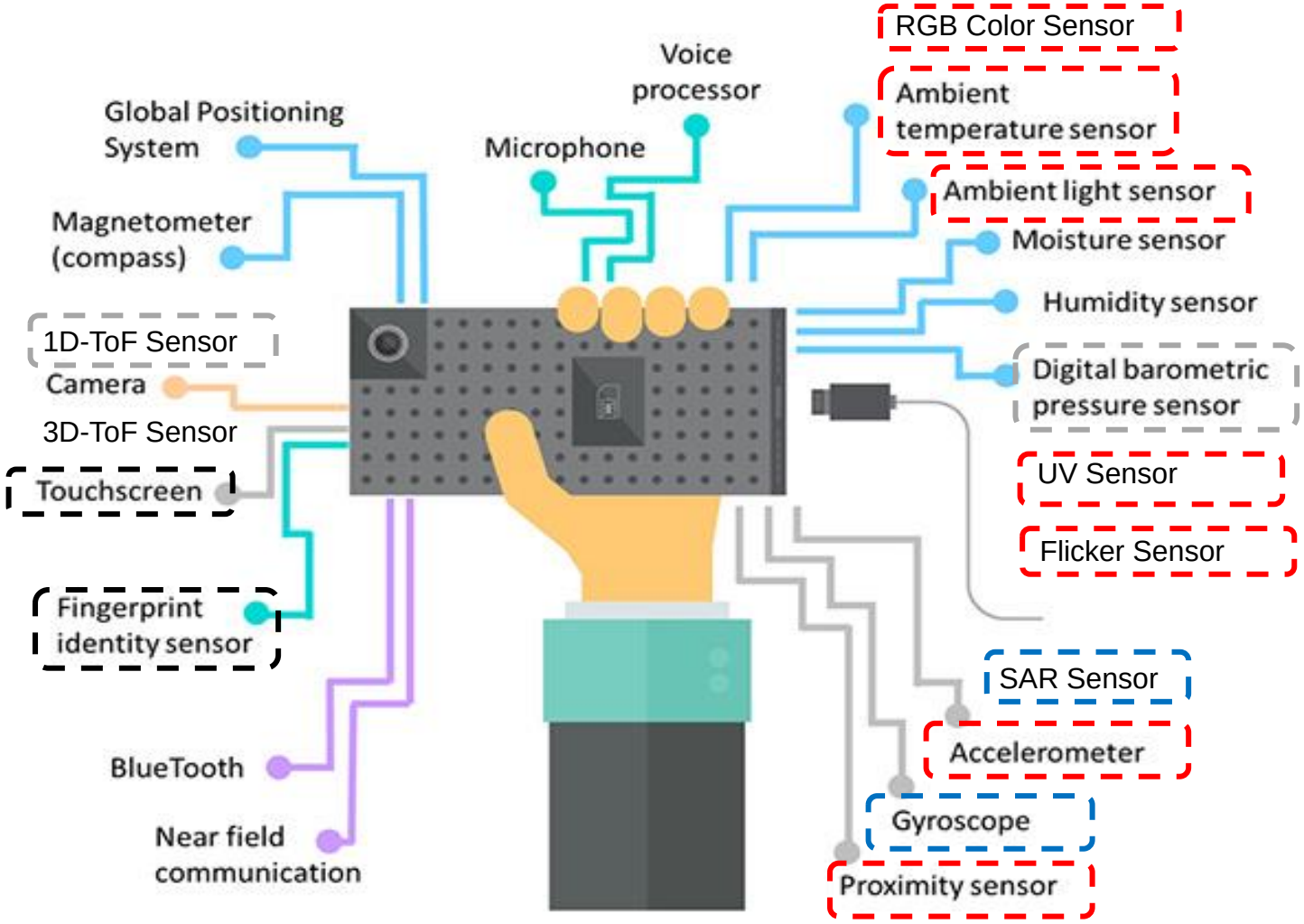
Opticals for Displays
Slit type
ALS only

MEMS
Accelerometers

Going Forward



Stay Tuned



Our Strategy

多樣化 (Diversification)

- 提供完整產品綫, 一站式采購服務 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

矽創電子 Sitronix
Display Driver IC

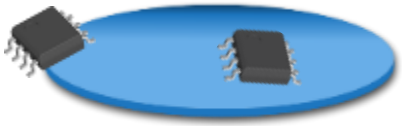
昇佳電子(46%) sensortek
Sensor IC

鈊創電子(91%) mCore
MCU/DSP

HFST 合肥創發微電子(90%)
Touch & Fingerprint IC

力領科技(100%) FORCELEAD

極創電子(58%) INFST
Power Management IC



Incubator since 2009

We'd love to hear from you!

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Lighting up your life.

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