

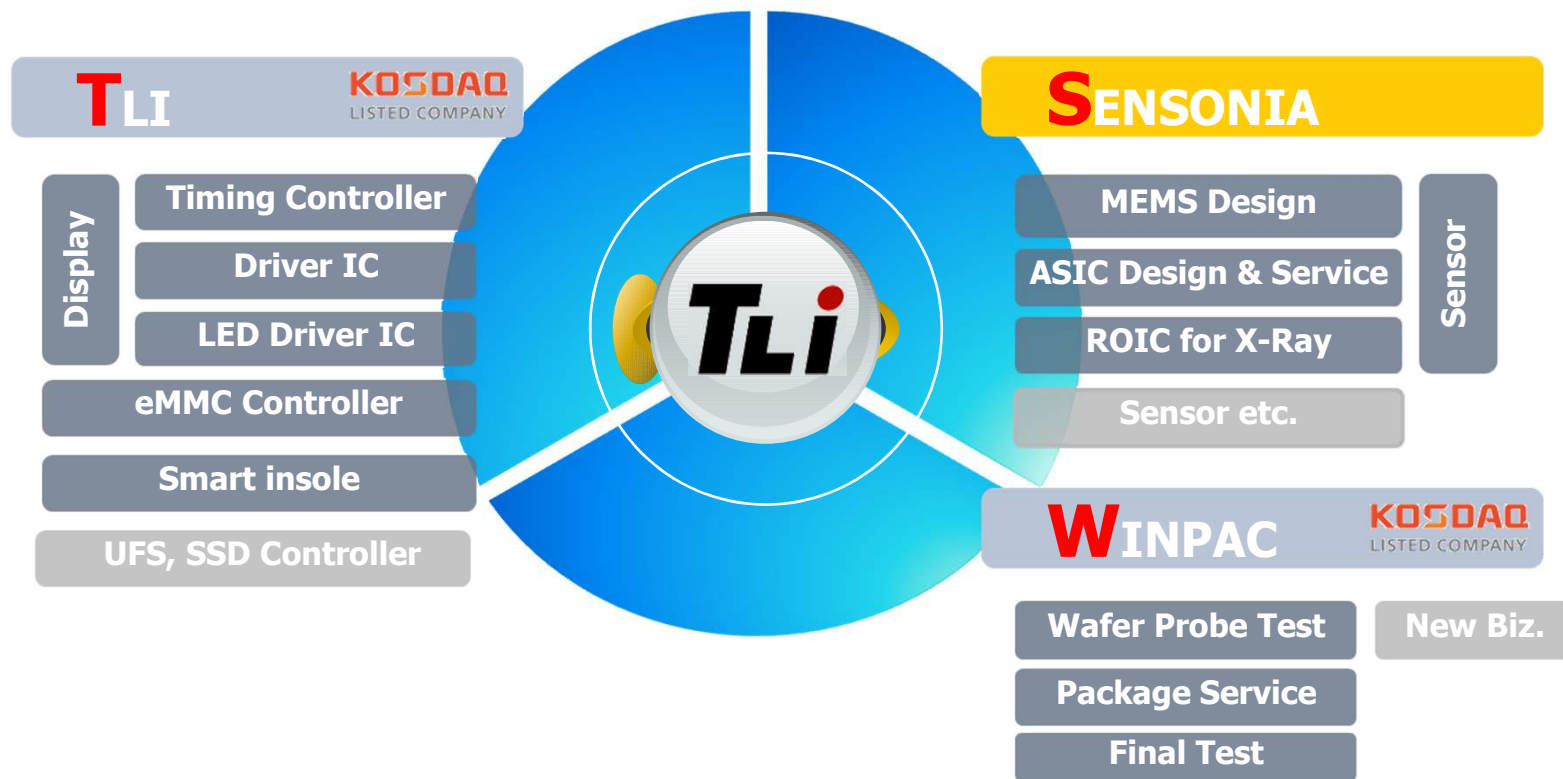
Company Introduction



SENSONIA



Overview_TLi Group

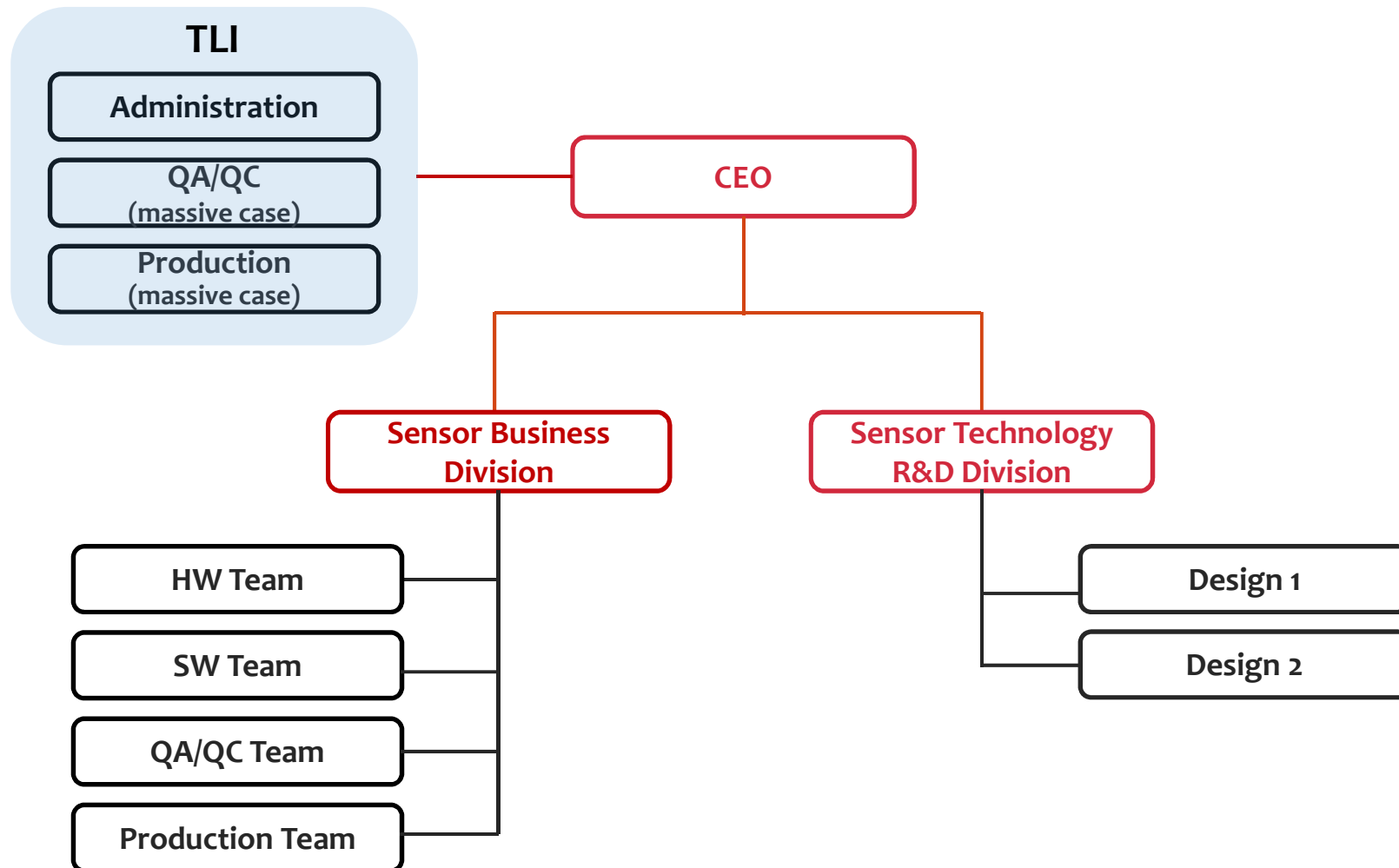


Overview_Sensonia



CEO	Soonwon Hong, Dr.
Founded	Nov. 2014 (Spin-off from TLI)
Revenue	4M US\$ @2017
Capital	0.9M US\$
Num. of employees	24
Location	Seongnam-si, Gyeonggi-do, Korea
Business area	Digital X-ray solution, fingerprint and other sensors
R&D Area	<ul style="list-style-type: none">• Digital radiography ROIC (Read-Out IC)• Digital X-ray hardware solution• Optical/capacitive fingerprint sensor• Fiber type pressure sensor

Organization



History (1)



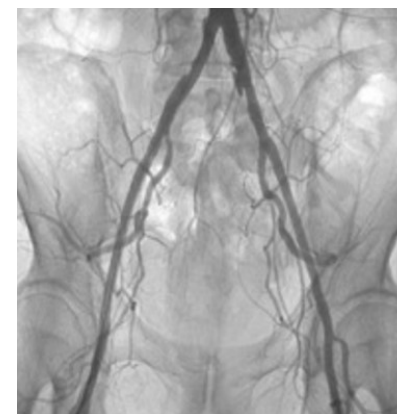
SONSONIA

- 1998 TLI founded
- 1999 Development of ROIC for TFT fingerprint with LG Elec.
- 2001 Development of digital radiography ROIC for DRTech
- 2003 Development of ROIC for TFT-PIN fingerprint with Samsung Elec.
- 2004 Mass production of digital radiography ROIC for DRTech
- 2005 Development of ROIC for TFT-PIN color image scanner
- 2006 Mass production of ROIC for TFT-PIN fingerprint
- 2007 Mass production of digital radiography ROIC for Samsung Elec.
- 2008 Development of source driver IC + ROIC onechip for OLED aging compensation
Mass production of digital radiography ROIC for Toshiba Elec.
- 2009 Development of source driver IC + ROIC onechip for TFT touch screen
Mass production of ROIC for TFT touch screen with Samsung Display
- 2010 Mobile sensor business started
Mass production of digital radiography ROIC for Vieworks
- 2011 Development of 3-axis accelerometer
Mass production of dynamic digital radiography ROIC for Samsung Elec.



History (2)

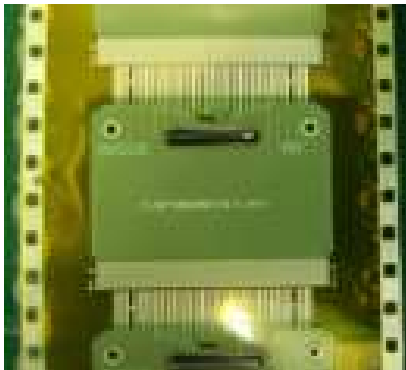
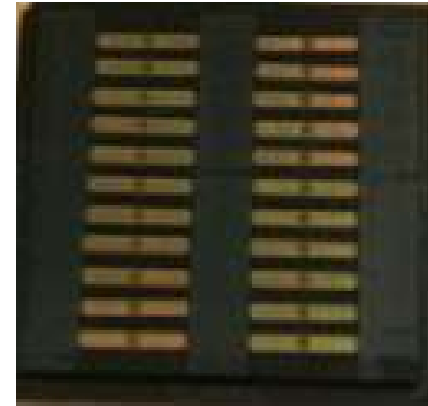
- 2012** Development of ambient light and proximity sensor
- 2013** **Mass production of high speed dynamic digital radiography ROIC for Rayence**
Development of gyroscope
Development of ROIC for capacitive sensors
- 2014** **Sensonia spin-off from TLI as a sensor professional**
Mass production of 3-axis accelerometer
Development of relative humidity and temperature sensor
Mass production of ambient light and proximity sensor
- 2015** Certified as Venture Company
Development of UV sensor
- 2016** Development of **capacitive fingerprint sensor**
- 2017** Development of **optical fingerprint sensor**
Development of **dynamic digital radiography ROIC with 16bit ADC**
Development of ROIC for resistive sensor array



ROIC for TFT array sensors

❖ TFT sensor ROIC for image scanner

- 256 CVC channels with CDS
- On chip 10 bit 4MSPS ADC



❖ TFT sensor ROIC for fingerprint recognition

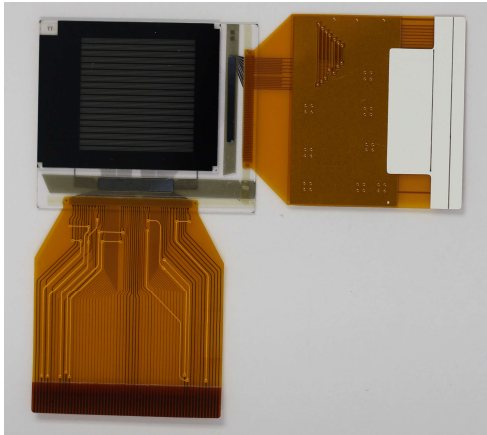
- On chip 12 bit 14MSPS ADC
- Integrated timing controller

❖ TFT sensor ROIC for digital X-ray

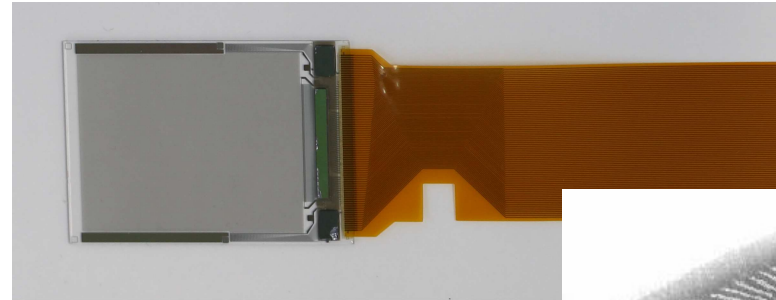
- 256 CVC channels with CDS
- 10MHz fast operating speed



Optical TFT sensors for fingerprint



- 200 x 200 sensing array
- 306dpi
- Sensonia's ROIC



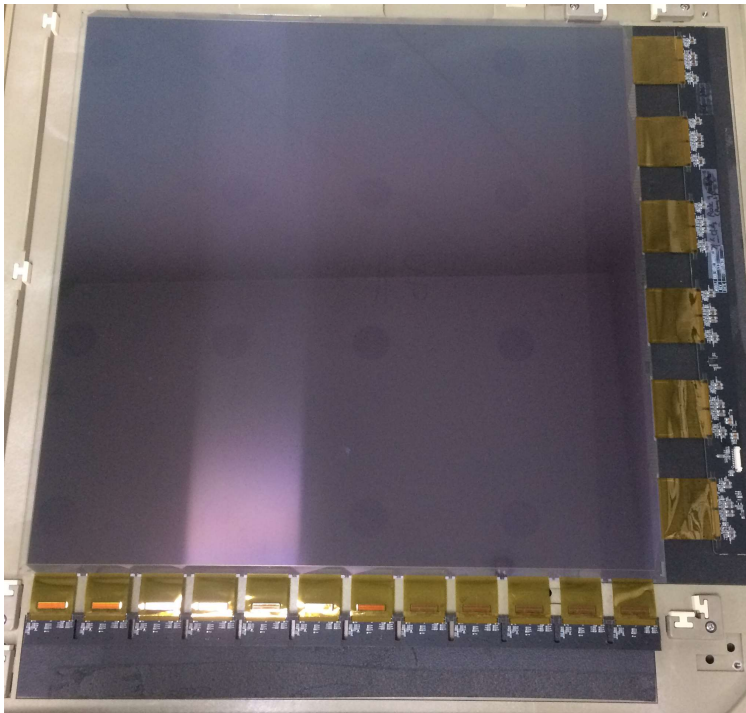
- 256x338 sensing array
- 250dpi, 10bit resolution
- Sensonia's ROIC and GIP



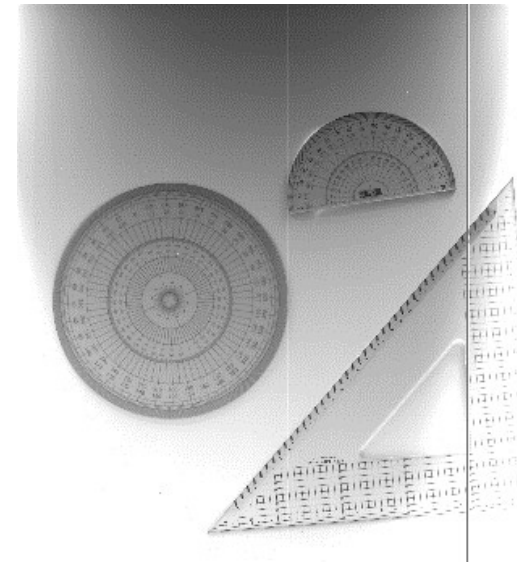
- Flexible 256x300 sensing array
- 250dpi, 10bit resolution
- Sensonia's TL5109SR ROIC

TFT Imaging solutions

❖ Digital X-ray detector with TFT-PIN sensor

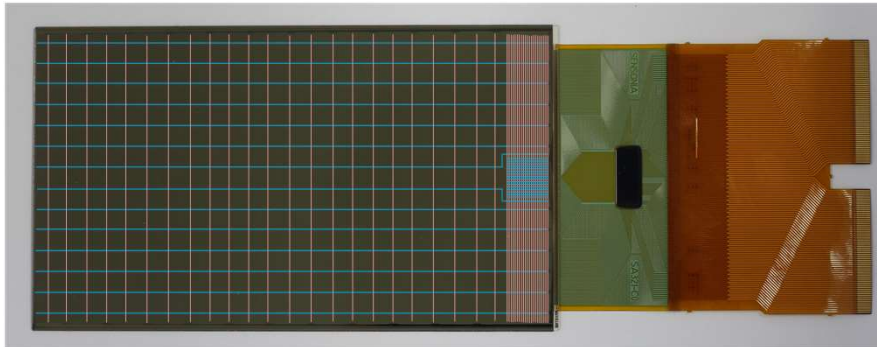


- 3072 x 3072 sensing array
- 186dpi, 16bit resolution
- Sensonia's SA130 ROIC applied



Optical scan image

Fingerprint sensors

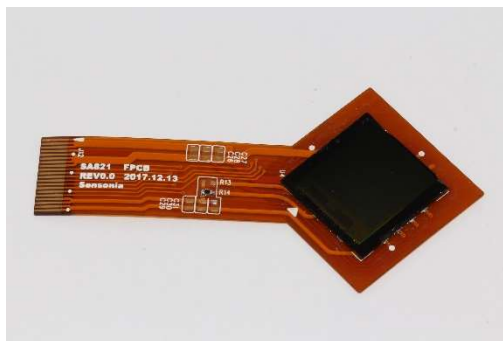


❖ Fingerprint sensor with ITO patterns on glass

- 145 TX and 134 RX channels
- 306dpi, 1024 level resolution

❖ Capacitive CMOS type fingerprint sensor

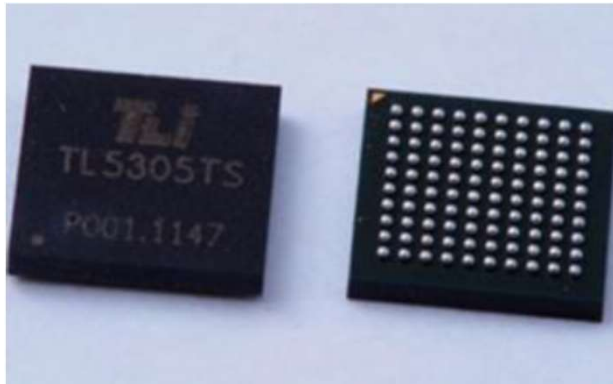
- 160x160 sensing array
- 508dpi, 256 level resolution



❖ Optical CIS fingerprint sensor

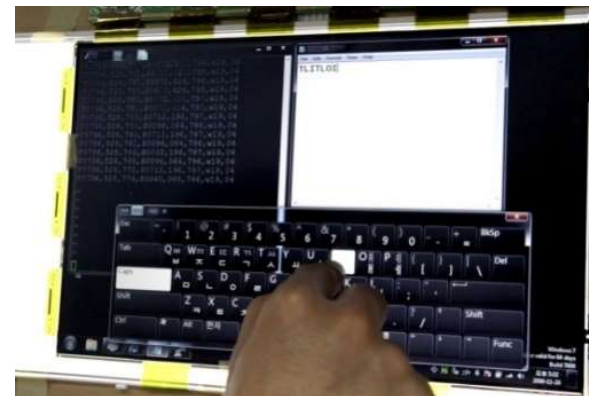
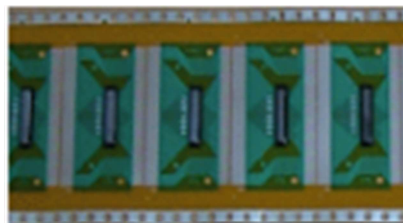
- 200x200 sensing array
- 508dpi, 256 level resolution

Touch screen sensor IC



- ❖ Touch screen sensor IC
 - 27 TX and 43 RX channels
 - On chip MCU and 10 bit ADC
 - 5-point touch, 100Hz

- ❖ Source driver IC + ROIC onchip for touch screen display
 - 696 driving output channels
 - 58 CVC readout channels with CDS
 - 3.3V and 13.5V dual power supply



Business Partners





SONSONIA

Thank you!

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