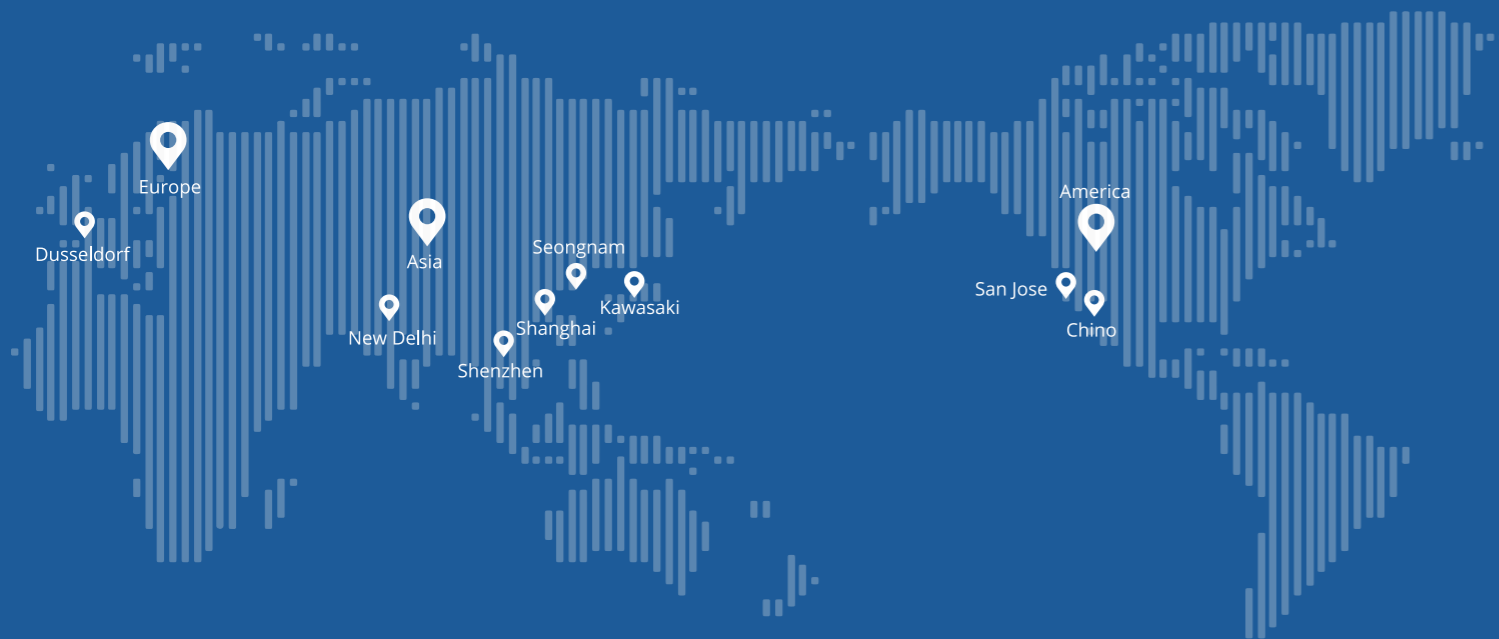


TO CREATE COLORFUL LIFE



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San Jose, USA

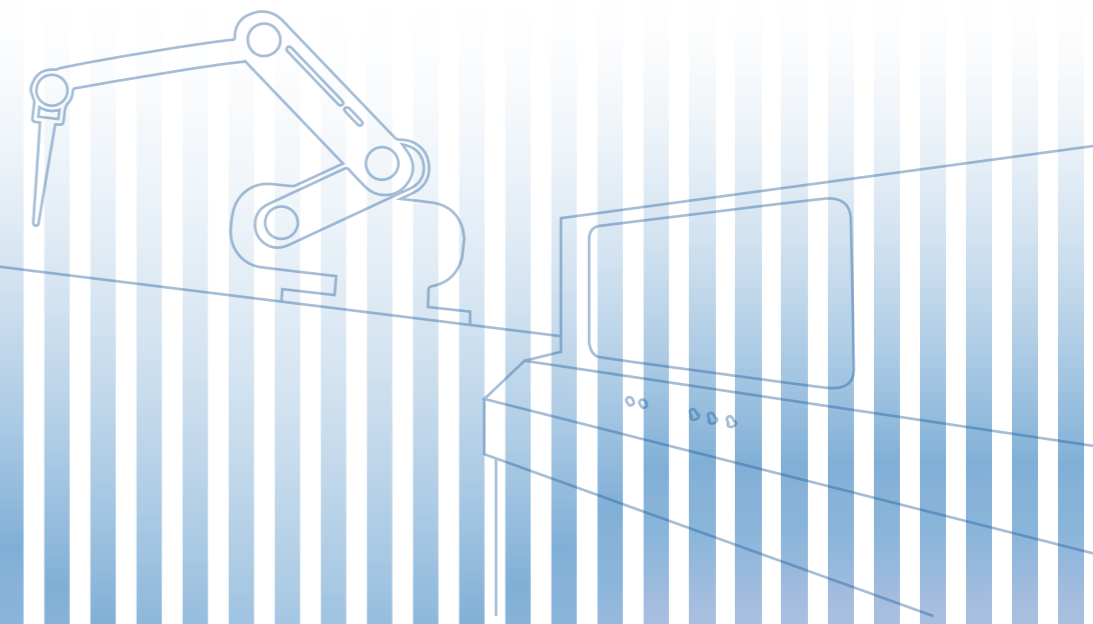
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PROFESSIONAL DISPLAY

PRODUCT CATALOG

T O C R E A T E C O L O R F U L L I F E

ABOUT US

Tianma Microelectronics Co., Ltd. (Tianma) specializes in providing display solutions and associated support services worldwide. Founded in 1983, the company went public on the Shenzhen Stock Exchange (SZ.000050) in 1995. Tianma remains committed to advancing small and medium-sized display technologies, continuously enhancing our diversified display technology portfolio, while following our '2+1+N' development strategy. Our core business focuses on manufacturing and selling displays for smart mobile devices and vehicles, with IT displays serving as a key driver of our rapid growth. Tianma is committed to continuous innovation, best-in-class customer service, and supporting the various design requirements needed for diverse professional display applications. The company focuses on organic growth while strategically leveraging opportunities in 5G and AIoT development. Since the fourth quarter of 2017, the company has led the global market in LTPS smartphone panel shipments continuously, achieving comprehensive coverage of LTPS panels for mainstream brands across the industry. Since 2020, the company has maintained the lead in global automotive display market share in factory-installed and vehicle instrument cluster displays for four consecutive years. In 2023, the company led global shipments of rigid AMOLED panels for smart wearables. The company ranks second in China for flexible AMOLED smartphone display shipments and continues to advance in technological innovation and top-brand product integration. In addition, the company maintains global leadership in various market segments such as medical, smart home, and industrial handheld displays. Tianma is committed to continuous innovation to better serve the differentiated needs of customers and their applications. Tianma strives to achieve product leadership through innovation by adhering to innovation-driven principles, continuously increasing investment in R&D, and strengthening forward-looking technology and product development. The company has now independently

developed many cutting-edge, mass-production technologies such as TN/STN, TFT-LCD, AMOLED, Flexible Display, Foldable Display, Micro/Mini LED, Touch Integration, Intelligent Sensing, etc. These technologies are both internationally advanced and domestically leading and have won many awards for innovative products and applications. These achievements and continuous investment in advanced technologies lay the foundation for innovative development across multiple application fields. Tianma has refined its portfolio of production lines over decades of development, consistently investing in advanced global technologies and high-end production facilities. Tianma has established a comprehensive portfolio of small and medium-sized mainstream display technologies across various sectors, including passive displays, a-Si TFT-LCD, LTPS TFT-LCD, Oxide TFT-LCD, AMOLED, and Micro-LED. These technologies are distributed across seven specialized manufacturing centers: Shenzhen, Shanghai, Chengdu, Wuhan, Xiamen, Wuhu, and Japan. The company has a global marketing and technical service support network spanning Germany, the U.S., Japan, South Korea, India, and other countries. This network supports an optimized market strategy for both domestic and international brand clients, ensuring efficient fulfillment of customer needs. Looking ahead, Tianma will continue striving for a world-leading position by following our '2+1+N' strategy. The company remains committed to advancing its technology, products, and services, while expanding its strategic presence across various global business sectors. By fully utilizing and integrating global resources and forward-looking technological and quality advantages, Tianma will continue to provide leading-edge display solutions and fast service support, while accelerating progress toward our strategic goal of being the leading manufacturer of display solutions world-wide.

Data source: Omdia


COMPANY HISTORY















FIELDS OF APPLICATION

ONE-STOP DESIGN SOLUTION





P Series-Industrial & Medical

 Diagnosis	 Surgical/Endoscopic	 Ultrasound	 Monitoring	 HMI	 ATM
 Charging Piles	 Industrial Vehicles	 Aviation	 Marine	 Industrial Mobile	

A Series-ALoT

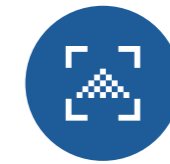
 Home Automation	 White Goods	 VoIP	 Projector	 MFP	 Playables
 2W	 Industrial Handheld Devices	 Education	 Finance POS	 DSC	 Medical

C Series-Commercial Display

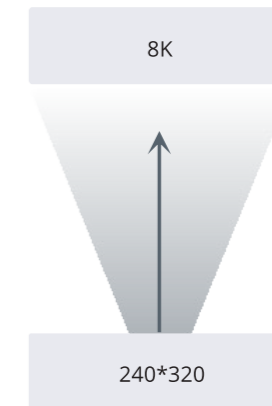
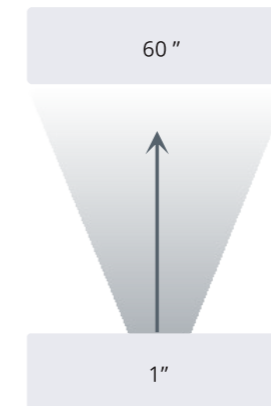
 Digital Signage	 One-stop Terminal	 Mass Transit	 Retail (POS/KIOSK)
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Size



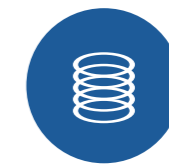
Resolution



Form Factor



Touch



Flexible Choice

4:3	Industrial Grade	Standard Modules
16:9		
Strip Display	GG/GFF	Touch Selectable
Circular Display		
Any Shape	In-cell & On-cell	Custom-made Glass

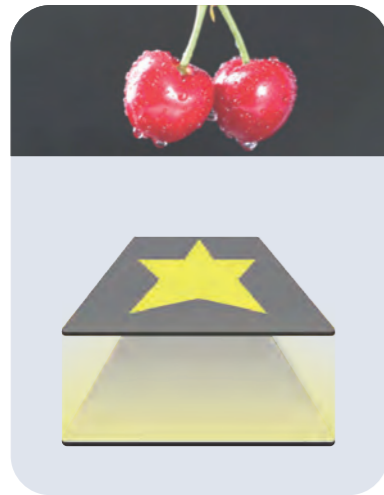
QUALITY FEATURES

Mini-LED Backlight (BLU)

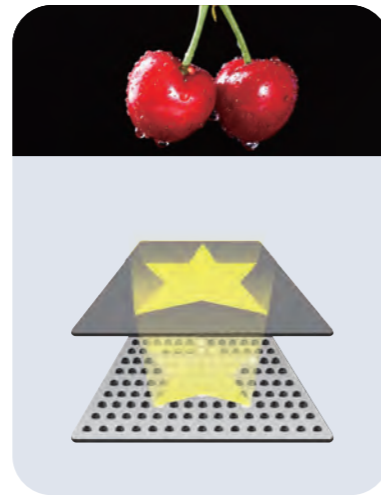


Mini-LED BLU Technology: Blue LED chip + color conversion creates an efficient white backlight, which combined with the LCD results in a high color-gamut display.

Normal LED



Mini-LED



High contrast ratio

High color gamut

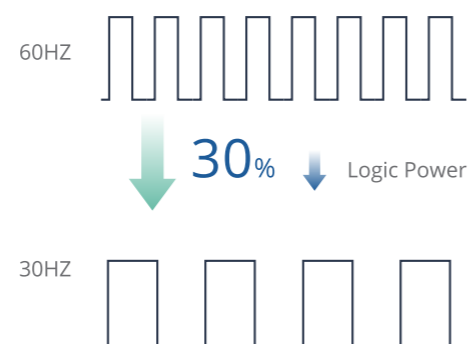
Low power consumption

Longer life

Low Refresh Rate



By lowering the refresh rate of the display, you can effectively reduce energy consumption, thereby extending the battery life of your device.



Low power consumption

QUALITY FEATURES

EyeFun™



Certified by TÜV for non-reflection (SCI < 1%) and featuring excellent anti-glare performance (Haze ~30%), this display supports ultra-wide viewing angles of ≥30°. It also includes ambient light gamma adaptive technology, ensuring outstanding low grayscale details in various environments.



Normal LCD

EyeFun™

Normal paper like

Paper eye protection

Anti-glare

Low blue light

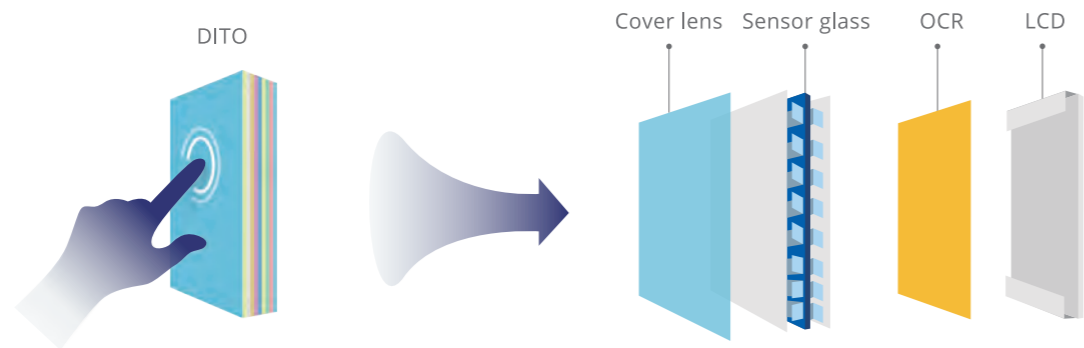
No image interference

Comfortable brightness

True wide viewing angle

Dual-ITO

The touch pattern is composed of two layers of Indium Tin Oxide (ITO).



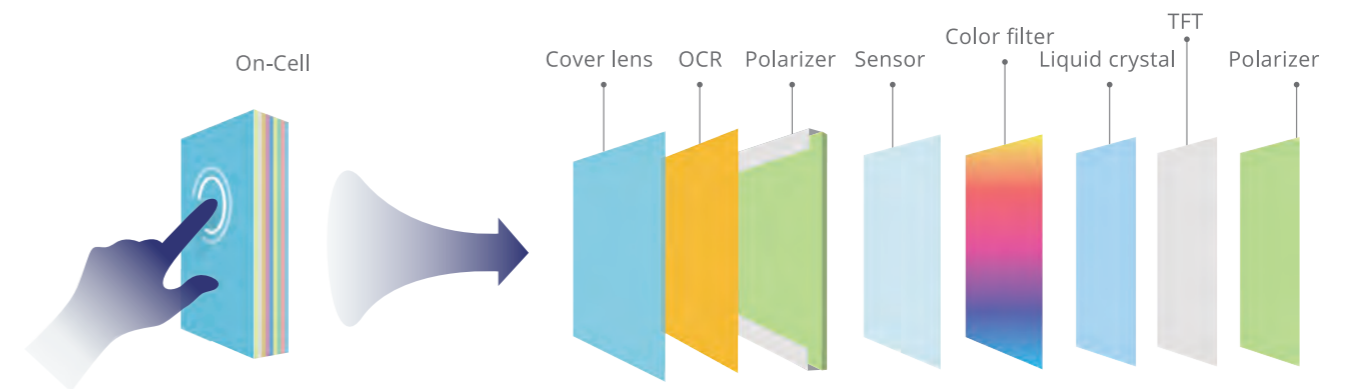
ESD: Air/15kv, Contact/8kv

Passive pen: Tip diameter $\leq 2.0\text{mm}$

Wet & Glove

On-Cell

ITO pattern forms mutual capacitance electrodes on the color filter substrate.



ESD: Air/12kv, Contact/6kv

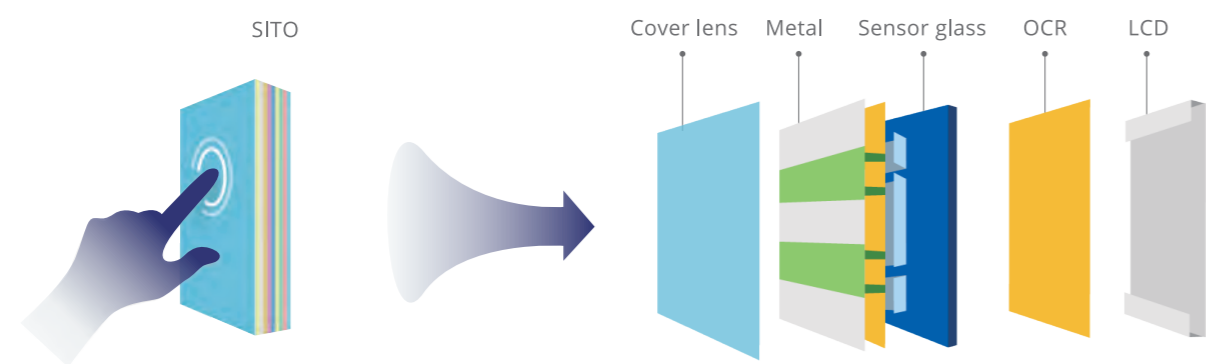
High transmittance

Wet & Glove

Narrow border

Single ITO

The touch pattern consists of a single layer of Indium Tin Oxide (ITO).



ESD: Air/15kv, Contact/8kv

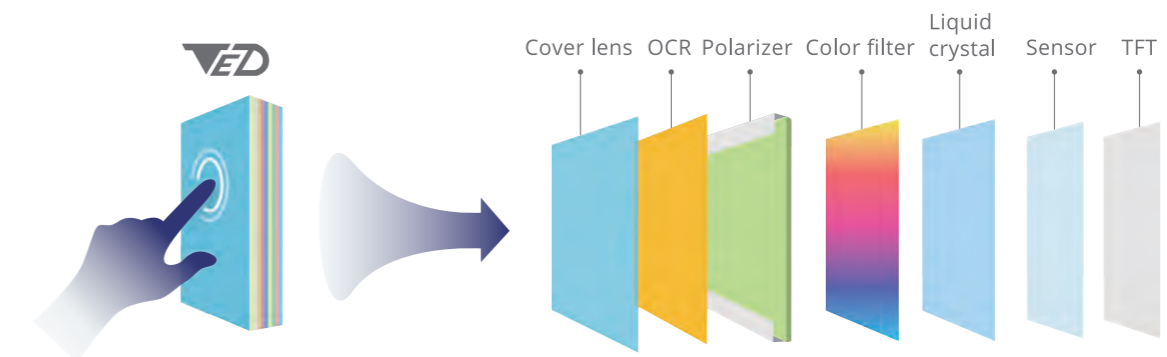
Passive pen: Tip diameter $\leq 2.0\text{mm}$

Wet & Glove

High reliability

TED

Touch Embedded Display technology integrates a high-performance touch function sensor inside the TFT glass cell.



ESD: Air/15kv, Contact/8kv

Ultra-low reflection

Integrated touch

Wet & Glove

Passive pen: Tip diameter $\leq 2.0\text{mm}$

Ultra-thin

Narrow border

1 inch ~32inch

* TED: Touch embedded display
* On-cell/TED technologies applied to A series

PCAP One Stop Solution



Touch control integration covering various industries requires more options for enhanced features and performance.



Performance

- Designed for Industrial & Medical
- Wet & Glove Support
- Anti-noise Design
- Thin & Light
- Narrow Border

Service

- In-House Bonding Options
- Interface Options (USB/IIC/UART)
- PCAP Tuning Support
- Customized Cover Glass

Anti-Reflection
Optically cancels the reflected light
Able to keep glossy surface

Anti-Glare
Reduce the reflected light by matte finish surface

Anti-Fingerprint
Minimize the surface tension of the cover
Avoid fingerprints and smudges

Anti-Bacterial
AG+ glass treatment to support anti-bacterial effect

Impact Resistant
Chemical strengthen Thick<3mm, physical streng- then tempered glass, Thick>3mm, IK09 level

Bistable



It has the characteristics of flicker-free, full-viewing angle, true color and ultra-low power, relying on the selective reflection characteristics of bi-stable cholesteric liquid crystal and red, green and blue three-screen stacking technology. This technology is widely used in e-books and billboards.



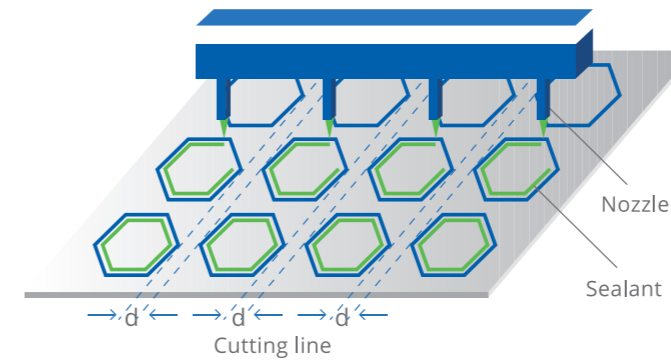
Static screen 0 power consumption

Full viewing angle, sunlight reflection

Free Form



Free form technology allows for flexible design according to the specific needs of the customer. Its shape is not limited to the traditional rectangle, but can also be designed as a circle, polygon, ring or even trapezoid. In addition, free-form technology supports the realization of A zone vias to meet the diverse application needs of customers.



Round

Narrow border

Arc without sawtooth

DISTINCTIVE TECHNOLOGIES

Seamless



The decorative cover is invisible, blending in perfectly with the environment when not displayed, and presenting a clear image when displayed. The color, texture and size of the cover can be customized to meet the design requirements, and it is widely used in smart home and other fields.

Black



White



Low reflection: 0.6% (SCI)

No color difference $\Delta E: 0.5$

Low color cast: $\Delta E: 0.5$

Contrast 150:1

Wood



Space Silver



High transparency decorative cover: 70%

Color cast: $\Delta E: 0.5$

Color cast: $\Delta E: 1.0$

No halo around the display edges

DISTINCTIVE TECHNOLOGIES

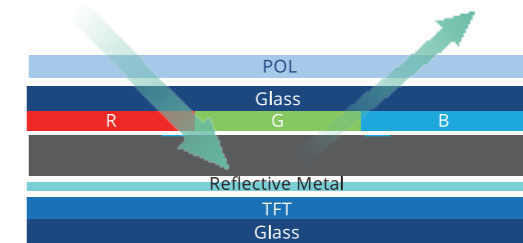
ART LCD



Reflective LCD technology uses a silver (Ag) reflective layer process and a special polarizer design to dramatically improve contrast and reflectivity for superior outdoor visibility and ultra-low power consumption.

Power 80% ↓

(Reflective mode w/o backlight vs. Conventional transmissive LCD)



Low power consumption

Outdoor visibility

Intelligent Display Module



Intelligent display module, including LCD CTP and drivers. Only a simple interface is necessary for the clients. Capable for varied UI customization. Adaptive to multiple applications. Abundant interfaces (Uartx4+GPIOx20+ADCx7+PWM) enabling the display to support varied peripheral devices such as sensor, speaker, Wi-Fi module, etc.



Intelligent display

UI customization

Serial ports

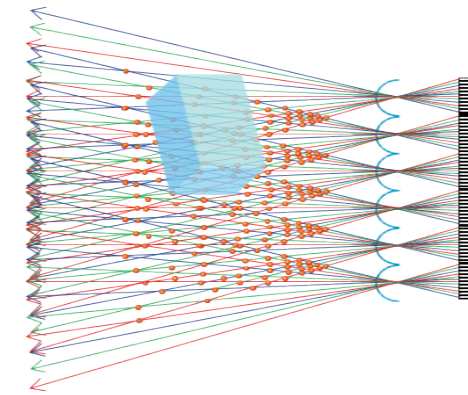
Sensors & Speaker

Support networking

Light field 3D technology



Self-developed 3D LC lens technology enables lossless 2D/3D switching. Based on eye-tracking multi-view 3D light-field with an ultra-fast real-time multi-view rendering algorithm to provide a smooth and comfortable 3D visual experience suitable for instrumentation, industry and other fields.



Glasses-free 3D

2D/3D switching

Multi-view

Flexible OLED Display



Flexible OLED displays have broad application uses in the smart mobile display segment. Using a polyimide flexible substrate and thin film encapsulation technology, narrow border and ultra-thin designs are achieved.



Ultra thin

Free form

Ultra narrow border

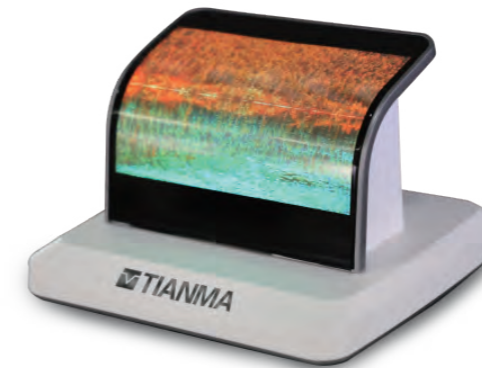
Bending radius

Micro-LED



Micro-LED features miniature LED arrays, with each Micro-LED functioning as a pixel, individually driven to emit light. This enables modules to become more energy efficient, with high transmittance, high contrast, high brightness, narrow border and ultra-thin, etc.

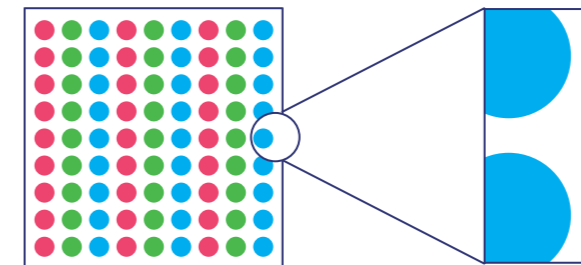
7.56" Flexible



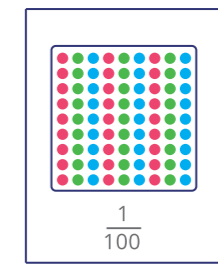
9.38" Transparent



LED



Micro-LED



High transmittance

High color gamut

High brightness

Flexible

High contrast

COMBINATION TECHNOLOGY P SERIES

Industrial Vehicles/Aviation/Marine



- High brightness
- Anti-corrosion
- Anti-glare glass
- Ultraviolet protection

- Anti-reflection glass
- Dampproof
- Anti-fingerprint

COMBINATION TECHNOLOGY P SERIES

HMI/Outdoor Equipment



- Wide temperature High and low operating temperatures -30 °C ~ +85 °C
- Anti-vibration Normal 10~50 Hz X/Y/Z 2 Hrs Total 6 Hrs Acceleration 10G
- Ultraviolet protection UV 1120 W/m²
- Longer life >50000 hours

COMBINATION TECHNOLOGY P SERIES

Medical



High brightness
1500~1800 cd/m²

High color gamut
90~120 %

High resolution: 12M

Color depth (Real 10 bits)

Viewing angle CR (CR≥0.63)

Color gamut (NTSC 92%)

Low color shift ($\Delta \leq 0.05$)

Narrow Border

High black uniformity
70~75 %

High gray scale uniformity
80~85 %

COMBINATION TECHNOLOGY A SERIES

Smart Home



High brightness

Circular shape

Two-Wheeled



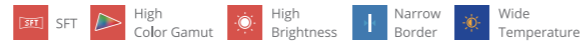
Dampproof

Longer life >50000 hours

Resist ultraviolet

Anti-vibration Anti-vibration 15~50 Hz X/Y/Z 20 Hrs Acceleration 20G
Normal 10~50 Hz X/Y/Z 2 Hrs Total 6 Hrs Acceleration 10G

MAIN PRODUCTS P SERIES



A Series



Home Healthcare

2.4"	QVGA(240*320)	
2.8"	QVGA(240*320)	
3"	VGA+(720*480)	
3"	VGA+(720*480)	
3.5"	QVGA(320*240)	
4.3"	WQVGA(480*272)	

MFP

2.4"	QVGA(240*320)	
2.7"	QVGA(240*320)	
2.8"	QVGA(240*320)	
4.3"	WQVGA(480*272)	
7"	WVGA(800*480)	
7"	WSVGA(1024*600)	

Industrial Mobile

2.4"	QVGA(240*320)	
2.8"	QVGA(240*320)	
3.5"	QVGA(320*240)	
4.3"	WQVGA(480*272)	
5"	HD(1280*720)	
5"	FHD(1920*1080)	
5.99"	1080x2160	

White Goods

2.4"	QVGA(240*320)	
3.5"	QVGA(320*240)	
3.7"	8:1(720*92)	
4.3"	WQVGA(480*272)	
5"	HD(1280*720)	
7"	WVGA(800*480)	
7.8"	1:3(400*1280)	
10.1"	WXGA(1280*800)	
12.1"	WXGA(1280*800)	

VOIP

2.4"	QVGA(240*320)	
3.5"	QVGA(320*240)	
4.3"	WQVGA(480*272)	
5"	WVGA(800*480)	
5"	HD(1280*720)	
7"	WVGA(800*480)	
7"	WSVGA(1024*600)	
8"	XGA(1024*768)	

Two-Wheeled Vehicles

2.8"	QVGA(240*320)	
3.4"	800*800	
3.5"	HVGA(320*480)	
5"	WVGA(800*480)	
7"	WVGA(800*480)	
7"	1280*768	
8"	1280*720	

Rugged PC

10.1"	WUXGA(1920*1200)	
12"	2880*1920	
13.3"	4k2k(3840*2160)	
15.6"	4k2k(3840*2160)	

Financial POS

2.4"	QVGA(240*320)	
2.8"	QVGA(240*320)	
3.5"	QVGA(320*240)	
4.3"	WQVGA(480*272)	
5"	HD(1280*720)	
5.5"	HD(1280*720)	
6"	720*1440	
7"	WVGA(800*480)	

Playtables

21.5" FHD(1920*1080)		23.8" FHD(1920*1080)		27" FHD(1920*1080)		23.8" 4K2K(3840*2160)	
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P Series



Home Automation

2"	320*280		4.3"	WQVGA(480*272)		7"	WVGA(800*480)	
2.4"	QVGA(240*320)		4.3"	WVGA(800*480)		7"	WSVGA(1024*600)	
2.8"	QVGA(240*320)		5"	WVGA(800*480)		10.1"	WXGA(1280*800)	
3.5"	QVGA(320*240)							

MAIN PRODUCTS P SERIES



HMI

3.5"	QVGA(320*240)		8"	SVGA(800*600)		10.4"	WXGA(1280*800)	
4.3"	WQVGA(480*272)		8"	XGA(1024*768)		12.1"	SVGA(800*600)	
5.7"	VGA(640*480)		8.4"	SVGA(800*600)		12.1"	XGA(1024*768)	
6.5"	VGA(640*480)		8.4"	XGA(1024*768)		12.1"	WXGA(1280*800)	
7"	WVGA(800*480)		10.1"	WSVGA(1024*600)		15"	XGA(1024*768)	
7"	WSVGA(1024*600)		10.1"	WXGA(1280*800)		15.6"	FHD(1920*1080)	
7"	WXGA(1280*800)		10.4"	SVGA(800*600)		18.5"	FHD(1920*1080)	

Medical

15.6"	FHD(1920*1080)	
18.5"	FHD(1920*1080)	
21.3"	UXGA(1200*1600)	
21.3"	QXGA(1536*2048)	real 10bits
21.3"	QSXGA(2560*2048)	real 10bits
30"	QSXGA+(3280*2048)	real 10bits
30.9"	(4200*2800)	real 10bits

Medical

4.3"	WQVGA(480*272)		12.1"	WXGA(1280*800)	
7"	WVGA(800*480)		13.3"	FHD(1920*1080)	
8.4"	SVGA(800*600)		15"	XGA(1024*768)	
10.1"	WXGA(1280*800)		15.6"	FHD(1920*1080)	
10.4"	SVGA(800*600)		21.5"	FHD(1920*1080)	
12.1"	SVGA(800*600)		23.8"	FHD(1920*1080)	
12.1"	XGA(1024*768)				

Transportation

6.5"	VGA(640*480)	
8"	XGA(1024*768)	
8.4"	XGA(1024*768)	
10.1"	WXGA(1280*800)	
10.4"	XGA(1024*768)	
10.4"	WXGA(1280*800)	
15"	XGA(1024*768)	

Marine

4.3"	WQVGA(480*272)		15.6"	FHD(1920*1080)	
5"	WVGA(800*480)		18.5"	4k2k(3840*2160)	
7"	WVGA(800*480)		19"	SXGA(1280*1024)	
9"	WSVGA(1024*600)		21.5"	4k2k(3840*2160)	
10.1"	WXGA(1280*800)		23.8"	4k2k(3840*2160)	
11.6"	FHD(1920*1080)		27"1	4k2k(3840*2160)	
12.1"	WXGA(1280*800)				

Commercial Terminal

7"	WVGA(800*480)	
8"	XGA(1024*768)	
8.4"	XGA(1024*768)	
10.1"	WXGA(1280*800)	
10.4"	SVGA(800*600)	
11.6"	FHD(1920*1080)	
12.1"	XGA(1024*768)	
15"	XGA(1024*768)	
15.6"	FHD(1920*1080)	

Industrial Vehicles

3.5"	QVGA(320*240)		10.1"	WXGA(1280*800)	
5.7"	VGA(640*480)		10.4"	XGA(1024*768)	
6.5"	VGA(640*480)		10.4"	SVGA(800*600)	
7"	WVGA(800*480)		12.1"	XGA(1024*768)	
8"	WVGA(800*480)		12.1"	WXGA(1280*800)	
9"	WSVGA(1024*600)		15.6"	FHD(1920*1080)	

Aviation

11.6"	FHD(1920*1080)		13.3"	4k2k(3840*2160)	
13.3"	FHD(1920*1080)				

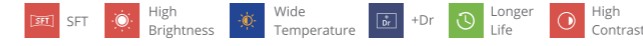
INDUSTRIAL PRODUCTS P SERIES



Size	3.5"	4.3"	6.5"
Display Mode	SFT	SFT	SFT
Part Number	P0350HVF1ME00	P0430WQF1ME00	P0650VGF1MA00
Resolution (pixel)	320*240	480*272	640*480
Active Area (mm)	70.08*52.56	95.04*53.86	132.48*99.36
LCM Luminance (typ)	350	400	1200
Contrast Ratio	800:1	800:1	900:1
Viewing Angle (U/D/L/R)(typ.)	80/80/80/80	80/80/80/80	88/88/88/88
NTSC	60%	50%	70%
Interface	RGB 24bits	RGB 24 bits	LVDS 6/8bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-30°C~+80°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-40°C~+90°C
Module Size (WxHxD)(mm)(D: max)	76.90x63.90x3.15	105.50x67.20x2.90	154.00x121.00x11.00
LED Lifetime (kh)	30000H	30000H	100000H
LED Driver	without	without	without
Application	MFP/HMI	VoIP/MFP/HMI	HMI/Construction/Transportation

Size	6.5"	7.0"	7.0"
Display Mode	SFT	TN	TN
Part Number	P0650VGF1MA10	P0700WVN1ME01	P0700WVN1MB01
Resolution (pixel)	640*480	800*480	800*480
Active Area (mm)	132.48*99.36	154.08*85.92	154.08*85.92
LCM Luminance (typ)	800	300	450
Contrast Ratio	900:1	800:1	800:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	60/80/80/80	60/80/80/80
NTSC	70%	50%	50%
Interface	LVDS 6bits	RGB 24 bits	RGB 24 bits
Operating Temperature	-30°C~+80°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-40°C~+90°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	153.00x118.00x10.9	164.20x99.20x5.54	164.90x100.00x5.70
LED Lifetime (kh)	70000H	30000H	45000H
LED Driver	with	without	without
Application	HMI/Construction/Transportation	HMI/Automotive/White goods	HMI/Automotive/White goods

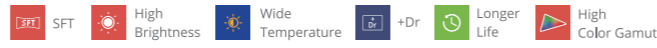
INDUSTRIAL PRODUCTS P SERIES







Size	7.0"	7.0"	7.0"
Display Mode	TN	TN	SFT
Part Number	P0700WVN1MA00	P0700WVF1MA00	P0700WVF1MA10
Resolution (pixel)	800*480	800*480	800*480
Active Area (mm)	154.08*85.92	152.40*91.44	152.40*91.44
LCM Luminance (typ)	1000	1500	1000
Contrast Ratio	1000:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	60/80/80/80	88/88/88/88	88/88/88/88
NTSC	50%	70%	70%
Interface	RGB 24 bits	LVDS 6/8bits	LVDS 6/8bits
Operating Temperature	-30°C~+85°C	-30°C~+85°C	-30°C~+85°C
Storage Temperature	-40°C~+90°C	-40°C~+90°C	-40°C~+90°C
Module Size (WxHxD)(mm)(D: max)	164.90x100.00x5.70	169.8x109.7x10.87 (Max)	169.80x109.70x8.90 (Max)
LED Lifetime (kh)	50000H	100000H	70000H
LED Driver	without	without	with
Application	2W/Marine/Industrial Vehicle	HMI/Construction/Transportation	HMI/Construction/Transportation

Size	7.0"	7.0"	8.0"
Display Mode	SFT	SFT	SFT
Part Number	P0700WSF2ME00	P0700WXF1ME00	P0800XGF1ME00
Resolution (pixel)	1024*600	1280*800	1024x768
Active Area (mm)	153.60*90.00	149.76*93.60	162.05*121.54
LCM Luminance (typ)	500	400	450
Contrast Ratio	1000:1	1000:1	1800:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	85/85/85/85
NTSC	0.5%	0.5%	50%
Interface	LVDS	LVDS	LVDS
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	164.5x104.20x3.5	161.00x107.00x3.35	183.43x138.35x3.75
LED Lifetime (kh)	30000H	30000H	30000H
LED Driver	with	with	without
Application	HMI/Automotive/White goods	HMI/Construction/Transportation	Automotive/HMI/Elevator

INDUSTRIAL PRODUCTS P SERIES








Size	8.4"	8.4"	8.4"
Display Mode	TN	TN	SFT
Part Number	P0840SVN1MB00	P0840SVN1ME00	P0840XGF1MB00
Resolution (pixel)	800*600	800*600	1024*768
Active Area (mm)	170.40*127.80	170.40*127.80	170.50*127.87
LCM Luminance (typ)	350	350	600
Contrast Ratio	500:1	500:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	60/70/70/70	60/70/70/70	88/88/88/88
NTSC	50%	50%	70%
Interface	LVDS 6/8 bits	RGB 24bits	LVDS 6/8 bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-30°C~+80°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-40°C~+90°C
Module Size (WxHxD)(mm)(D: max)	203.00x142.50x5.70	189.75x149.40x4.80	199.50x149.00x4.80
LED Lifetime (kh)	50000H	30000H	50000H
LED Driver	with	without	with
Application	HMI/Medical 	Kiosk/HMI	HMI/Construction/ Transportation 

Size	8.4"	10.1"	10.1"
Display Mode	SFT	TN	SFT
Part Number	P0840XGF1MA00	P1010WSN1ME00	P1010WSF1MB00
Resolution (pixel)	1024*768	1024*600	1024*600
Active Area (mm)	170.50*127.87	222.72*125.28	222.72*125.28
LCM Luminance (typ)	1000	450	400
Contrast Ratio	1000:1	800:1	800:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	75/80/80/80	75/80/80/80
NTSC	70%	47%	50%
Interface	LVDS 6/8 bits	LVDS 6/8 bits	LVDS 6/8 bits
Operating Temperature	-30°C~+80°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-40°C~+90°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	199.50x149.00x4.80	235.00x143.00x4.90	235.00x143.00x4.90
LED Lifetime (kh)	100000H	30000H	30000H
LED Driver	without	with	without
Application	HMI/Construction/ Transportation 	VoIP/Medical	HMI/Medical 

INDUSTRIAL PRODUCTS P SERIES



Size	10.1"	10.1"	10.1"
Display Mode	SFT	SFT	SFT
Part Number	P1010WSN1ME01	P1010WXF1ME20	P1010WXF1MB10
Resolution (pixel)	1024*600	1280*800	1280*800
Active Area (mm)	222.72*125.28	216.96*135.60	216.96*135.60
LCM Luminance (typ)	350	400	500
Contrast Ratio	800:1	800:1	800:1
Viewing Angle (U/D/L/R)(typ.)	75/80/80/80	85/85/85/85	85/85/85/85
NTSC	47%	50%	50%
Interface	RGB 24bit	LVDS 8 bits	LVDS 6/8 bits
Operating Temperature	-20°C~+70°C	-10°C~+50°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-20°C~+60°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	235.00x143.00x5.0	229.46x149.10x2.50	231.22x150.60x4.30
LED Lifetime (kh)	30000H	30000H	50000H
LED Driver	without	without	with
Application	VoIP/Medical Medium	HMI/Medical/Elevator 	HMI/Medical/Elevator 

Size	10.1"	10.4"	10.4"
Display Mode	SFT	SFT	SFT
Part Number	P1010WXF1MA00	P1040VGF1MA00	P1040VGF1MB00
Resolution (pixel)	1280*800	640*480	640*480
Active Area (mm)	216.96*135.60	211.20*158.40	211.20*158.40
LCM Luminance (typ)	1000	900	450
Contrast Ratio	800:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	85/85/85/85	88/88/88/88	88/88/88/88
NTSC	50%	50%	50%
Interface	LVDS 8 bits	RGB 24 bits	RGB 24 bits
Operating Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Storage Temperature	-40°C~+80°C	-40°C~+80°C	-40°C~+80°C
Module Size (WxHxD)(mm)(D: max)	229.8x149.0x9.11	243.0x185.1x10.5	243.0x185.1x10.5
LED Lifetime (kh)	50000H	70000H	70000H
LED Driver	with	without	without
Application	HMI/Medical/Elevator 	HMI/Medical 	HMI/Medical 

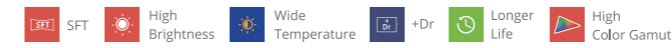
INDUSTRIAL PRODUCTS P SERIES



Size	10.4"	10.4"	10.4"
Display Mode	TN	SFT	SFT
Part Number	P1040SVN1ME10	P1040SVF1ME00	P1040XGF1MB01
Resolution (pixel)	800*600	800*600	1024*768
Active Area (mm)	211.20*158.40	211.20*158.40	210.43*157.82
LCM Luminance (typ)	350	400	500
Contrast Ratio	500:1	1000:1	1200:1
Viewing Angle (U/D/L/R)(typ.)	60/70/70/70	88/88/88/88	88/88/88/88
NTSC	50%	50%	50%
Interface	RGB 24 bits	LVDS 6 bits	LVDS 6 bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	228.40x175.40x6.20	236.00x176.90x5.60	230.00x175.80x5.70
LED Lifetime (kh)	30000H	50000H	50000H
LED Driver	without	without	with
Application	HMI	HMI/Medical Medium 	HMI/Medical

Size	10.4"	11.6"	11.6"
Display Mode	SFT	SFT	SFT
Part Number	P1040XGF1MA00	P1160FHF1MA00	P1160FHF1MA01
Resolution (pixel)	1024*768	1024*768	1024*768
Active Area (mm)	210.43*157.82	256.32*144.18	256.32*144.18
LCM Luminance (typ)	1300	1600	1000
Contrast Ratio	1000:1	900:1	900:1
Viewing Angle (U/D/L/R)(typ.)	85/85/85/85	88/88/88/88	88/88/88/88
NTSC	50%	70%	70%
Interface	LVDS 6/8 bits	LVDS 8 bits	LVDS 8 bits
Operating Temperature	-30°C~+80°C	-20°C~+80°C	-20°C~+70°C
Storage Temperature	-40°C~+85°C	-30°C~+85°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	230.00x180.2x9.5	273.50x166.50x7.8	273.50x166.50x7.8
LED Lifetime (kh)	100000H	50000H	30000H
LED Driver	without	with	without
Application	HMI/Construction/ Transportation 	Marine/HMI 	Marine/HMI

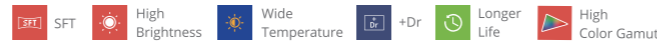
INDUSTRIAL PRODUCTS P SERIES









Size	12.1"	12.1"	12.1"
Display Mode	SFT	SFT	TN
Part Number	P1210SVF1ME00	P1210SVF1MB00	P1210XGN1MB00
Resolution (pixel)	800*600	800*600	1024*768
Active Area (mm)	246.00*184.50	246.00*184.50	245.76*184.32
LCM Luminance (typ)	350	500	450
Contrast Ratio	700:1	700:1	700:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	80/80/80/80
NTSC	72%	72%	55%
Interface	LVDS 6/8 bits	LVDS 6/8 bits	LVDS
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	279.00x209.00x9.00	279.00x209.00x9.00	279.00x209.00x8.60
LED Lifetime (kh)	30000H	50000H	50000H
LED Driver	with	with	with
Application	POS/HMI/Medical 	POS/HMI/Medical 	HMI/Medical

Size	12.1"	12.1"	12.1"
Display Mode	SFT	SFT	SFT
Part Number	P1210XGF1MB00	P1210XGF1MA00	P1210XGF1MA01
Resolution (pixel)	1024*768	1024*768	1024*768
Active Area (mm)	245.76*184.32	245.76*184.32	245.76*184.32
LCM Luminance (typ)	500	1300	800
Contrast Ratio	1000:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	88/88/88/88
NTSC	72%	72%	72%
Interface	LVDS 6/8 bits	LVDS 6/8 bits	LVDS 6/8 bits
Operating Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Storage Temperature	-40°C~+90°C	-40°C~+90°C	-40°C~+90°C
Module Size (WxHxD)(mm)(D: max)	260 5x203x9. 5	260 5x203x9. 5	260 5x203x9. 5
LED Lifetime (kh)	50000H	100000H	70000H
LED Driver	with	without	with
Application	HMI/Construction/Medical 	HMI/Construction 	HMI/Construction

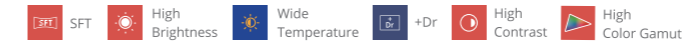
INDUSTRIAL PRODUCTS P SERIES









Size	12.1"	12.1"	12.1"
Display Mode	SFT	SFT	SFT
Part Number	P1210WXF1MB10	P1210WXF2MA00	P1210WXF2MA01
Resolution (pixel)	1280*800	1280*800	1280*800
Active Area (mm)	261.10*163.20	261.12*163.20	261.12*163.20
LCM Luminance (typ)	450	1600	1100
Contrast Ratio	1000:1	800:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	88/88/88/88
NTSC	72%	72%	50%
Interface	LVDS 6/8 bits	LVDS 6/8 bits	LVDS 8 bits
Operating Temperature	-20°C~+70°C	-30°C~+80°C	-30°C~+80°C
Storage Temperature	-30°C~+80°C	-40°C~+90°C	-40°C~+90°C
Module Size (WxHxD)(mm)(D: max)	278.00x184.00x9.90	277.7x180.6x8.7	277.7x180.6x8.7
LED Lifetime (kh)	50000H	50000H	50000H
LED Driver	with	without	without
Application	HMI/Medical 	HMI/Medical/POS/Marine/Construction 	Marine/HMI/POS 

Size	13.3"	13.3"	13.3"
Display Mode	SFT	SFT	SFT
Part Number	P1330FHF1ME10	P1330FHF1MA00	P1330FHF1MB00
Resolution (pixel)	1920*1080	1920*1080	1920*1080
Active Area (mm)	293.76*165.24	293.76*165.24	293.76*165.24
LCM Luminance (typ)	450	1000	600
Contrast Ratio	1000:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	85/85/85/85	85/85/85/85	85/85/85/85
NTSC	72%	72%	72%
Interface	LVDS	LVDS	LVDS
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	305.35x178.56x3.7	305.35x178.56x3.7	305.35x178.56x3.7
LED Lifetime (kh)	50000H	50000H	50000H
LED Driver	with	without	without
Application	HMI/Medical 	Marine/HMI/Outdoor 	Marine/HMI 

INDUSTRIAL PRODUCTS P SERIES



Size	14.0"	15.0"	15.0"
Display Mode	SFT	SFT	SFT
Part Number	P1400FHF1MA00	P1500XGF1MB00	P1500XGF2MB10
Resolution (pixel)	1920*1080	1024*768	1024*768
Active Area (mm)	309.31*173.99	304.12*228.09	304.12*228.09
LCM Luminance (typ)	800	300	500
Contrast Ratio	2000:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	88/88/88/88
NTSC	75%	72%	60%
Interface	LVDS	LVDS 1 port	LVDS 1 port
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	325.4x214.0x4	326.5x253.5x11.8	326.5x253.5x9
LED Lifetime (kh)	50000H	50000H	50000H
LED Driver	without	with	with
Application	R-PC/POS/Transportation 	POS/HMI 	POS/HMI 

Size	15.0"	15.6"	15.6"
Display Mode	SFT	SFT	SFT
Part Number	P1500XGF2MA00	P1560FHF1MB00	P1560FHF1MA00
Resolution (pixel)	1024*768	1920*1080	1920*1080
Active Area (mm)	304.12*228.09	344.16*193.59	344.16*193.59
LCM Luminance (typ)	1500	400	1000
Contrast Ratio	1000:1	1000:1	1500:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	88/88/88/88
NTSC	72%	72%	72%
Interface	LVDS 1 port	LVDS 8bits	LVDS 8bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-30°C~+80°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+85°C
Module Size (WxHxD)(mm)(D: max)	326.5x253.5x13	363.8x215.9x6.3	363.8x215.9x9.1
LED Lifetime (kh)	50000H	50000H	50000H
LED Driver	with	with	with
Application	POS/HMI 	POS/HMI 	HMI 

INDUSTRIAL PRODUCTS P SERIES



Size	17.3"	18.5"	18.5"
Display Mode	SFT	SFT	SFT
Part Number	P1730FHF1MB00	P1850FHF1MB01	P1850FHF1MB02
Resolution (pixel)	1920*1080	1920*1080	1920*1080
Active Area (mm)	381.89*214.81	408.96*230.04	408.96*230.04
LCM Luminance (typ)	500	400	400
Contrast Ratio	1700:1	1000:1	1000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88	88/88/88/88
NTSC	75%	72%	72%
Interface	LVDS 1 port	LVDS 8bits	eDP 2lines 8 bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	388.88x225.81x4	430.40x254.60x13.50	430.4x254.6x13.5
LED Lifetime (kh)	30000H	50000H	50000H
LED Driver	with	with	with
Application	R-PC/HMI/Transportation 	IFE/Marine/Outdoor/Medical 	IFE/Marine/Outdoor/Medical

Size	18.5"	21.3"	21.3"
Display Mode	SFT	SFT	SFT
Part Number	P1850UHF1MA00	P2130UXF1MA10	P2130QXF1MA00
Resolution (pixel)	3840*2160	1200*1600	1536*2048
Active Area (mm)	408.96*230.04	324.86*433.15	324.86*433.15
LCM Luminance (typ)	1400	900	900
Contrast Ratio	1200:1	2000:1	2000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	89/89/89/89	89/89/89/89
NTSC	72%	92%	92%
Interface	EDP1.2	LVDS 8 bits	LVDS real 10 bits
Operating Temperature	-20°C~+70°C	0°C~+60°C	0°C~+60°C
Storage Temperature	-30°C~+80°C	-20°C~+60°C	-20°C~+60°C
Module Size (WxHxD)(mm)(D: max)	430.96x252.04x10	336x453xTBD	336x453xTBD
LED Lifetime (kh)	20000H	50000H	50000H
LED Driver	without	with	with
Application	Marine/HMI/Transportation 	Medical 	Medical

INDUSTRIAL PRODUCTS P SERIES



Size	21.3"	21.3"
Display Mode	SFT	SFT
Part Number	P2130QSF1MA01	P2130QSF2MA01
Resolution (pixel)	2560*2048	2560*2048
Active Area (mm)	422.40*337.93	261.10*163.20
LCM Luminance (typ)	2500	1100
Contrast Ratio	2000:1	2000:1
Viewing Angle (U/D/L/R)(typ.)	89/89/89/89	89/89/89/89
NTSC	NA (mono)	72%
Interface	LVDS real 10 bits	LVDS real 10 bits
Operating Temperature	0°C~+60°C	0°C~+60°C
Storage Temperature	-20°C~+60°C	-20°C~+60°C
Module Size (WxHxD)(mm)(D: max)	354.9x442.3x20.9	354.9x442.3x20.9
LED Lifetime (kh)	50000H	50000H
LED Driver	with	with
Application	Medical 	Medical

Size	21.5"	21.5"
Display Mode	SFT	SFT
Part Number	P2150FHF1MB00	P2150UHF1MA00
Resolution (pixel)	1920*1080	3840*2160
Active Area (mm)	476.06 *267.79	475.20*267.30
LCM Luminance (typ)	500	1400
Contrast Ratio	1500:1	1200:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88
NTSC	72%	72%
Interface	LVDS	EDP1.2
Operating Temperature	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	495.6x292.2x8.1	495.20x291.90x10
LED Lifetime (kh)	50000H	20000H
LED Driver	with	without
Application	HMI/Medical 	IFE/Marine/Outdoor/Medical

INDUSTRIAL PRODUCTS P SERIES



Size	23.8"	23.8"
Display Mode	SFT	SFT
Part Number	P2380FHF1MB00	P2380UHF1MA00
Resolution (pixel)	1920*1080	3840*2160
Active Area (mm)	527.04*296.46	527.04*296.46
LCM Luminance (typ)	350	1400
Contrast Ratio	1800:1	1200:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	88/88/88/88
NTSC	72%	72%
Interface	LVDS	EDP1.2
Operating Temperature	0°C~60°C	-20°C~+70°C
Storage Temperature	-20°C~+70°C	-30°C~+80°C
Module Size (WxHxD)(mm)(D: max)	535x313x7	546x323.40x9.63
LED Lifetime (kh)	30000H	20000H
LED Driver	without	without
Application	HMI/Medical 	IFE/Marine/Outdoor/Medical

Size	27"	30.9"
Display Mode	SFT	SFT
Part Number	P2700FHF1MA00	P3090UHF1MA00
Resolution (pixel)	1920*1080	4200*2800
Active Area (mm)	596.16*335.34	652.68*435.12
LCM Luminance (typ)	1500	1400
Contrast Ratio	1000:1	2000:1
Viewing Angle (U/D/L/R)(typ.)	88/88/88/88	89/89/89/89
NTSC	40%	72%
Interface	LVDS 8 bits	eDP 1.4 real 10 bits
Operating Temperature	-30°C~+80°C	0°C~+50°C
Storage Temperature	-30°C~+80°C	-20°C~+60°C
Module Size (WxHxD)(mm)(D: max)	630.0x368.0x25.0	676.9x459.7x26
LED Lifetime (kh)	50000H	50000H
LED Driver	with	with
Application	Gas/Oil/HMI/Outdoor 	Medical

INDUSTRIAL PRODUCTS A SERIES



Size	2.4 "	2.4 "	2.4 "
Display Mode	TN	SFT	SFT+in-cell
Part Number	A0240QVN1	A0240QVF1	A0240QVF3
Resolution (pixel)	240*320	240*320	240*320
Active Area (mm)	36.72*48.96	36.72*48.96	36.72*48.96
Contrast Ratio	500:1	800:1	800:1
Viewing Angle (U/D/L/R)	70/60/70/70	80/80/80/80	80/80/80/80
NTSC	50%	70%	70%
Interface	CPU 8 bits	CPU 8 bits	MIPI/CPU/SPI
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	Industrial Mobile/POS	Home Automation/POS/MFP 	Home Automation/POS/MFP

Size	2.83"	2.83"	3.0"
Display Mode	TN	SFT	SFT+On-cell
Part Number	A0280QVN1	A0280QVF1	A0300VGF1xxxxN
Resolution (pixel)	240*320	240*320	640*480
Active Area (mm)	43.20*57.60	43.20*57.60	45.00*60.00
Contrast Ratio	500:1	800:1	900:1
Viewing Angle (U/D/L/R)	70/60/70/70	80/80/80/80	85/85/85/85
NTSC	65%	70%	70%
Interface	RGB	MCU 8/16 bits	RGB/YUV
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+70°C
Touch Type	w/o	w/o	On-cell
Application	POS/Home Automation/ Industrial Mobile	POS/Home Automation/ Industrial Mobile 	DSC/Small Size Medical/ Industrial Mobile

INDUSTRIAL PRODUCTS A SERIES



Size	3.0 "	3.5 "	3.5 "
Display Mode	SFT+On-cell	TN	SFT
Part Number	A0300NTF1xxxxN	A0350VHN1	A0350VQF1
Resolution (pixel)	720*480	320*480	320*240
Active Area (mm)	62.42*41.62	48.96*73.44	70.08*52.56
Contrast Ratio	1000:1	500:1	800:1
Viewing Angle (U/D/L/R)	85/85/85/85	70/60/70/70	80/80/80/80
NTSC	70%	60%	60%
Interface	MIPI 2Lane	RGB	RGB 24bits
Operating Temperature	-20°C~+60°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	On-cell	w/o	w/o
Application	DSC/Small Size Medical/ Industrial Mobile 	POS/Medical/HMI	MFP/HMI

INDUSTRIAL PRODUCTS A SERIES



Size	4.3 "	4.3 "	5.0 "
Display Mode	SFT	SFT	TN
Part Number	A0430WQF1	A0430WVF1	A0500WVN1
Resolution (pixel)	480*272	480*800	800*480
Active Area (mm)	95.04*53.86	56.16*93.60	108.00*64.80
Contrast Ratio	800:1	800:1	600:1
Viewing Angle (U/D/L/R)	80/80/80/80	85/85/85/85	50/70/70/70
NTSC	50%	65%	50%
Interface	RGB 24 bits	MIPI/SPI+RGB	RGB
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	VoIP/MFP/HMI 	Medical/Industrial Mobile 	VoIP/HMI/Marine

Size	3.5 "	3.97"	4.3 "
Display Mode	SFT	SFT	TN
Part Number	A0350VHF1	A0397VWF2	A0430WQN1
Resolution (pixel)	320*480	480*800	480*272
Active Area (mm)	48.96*73.44	51.84*86.40	95.04*53.86
Contrast Ratio	1200:1	800:1	900:1
Viewing Angle (U/D/L/R)	80/80/80/80	80/80/80/80	80/60/80/80
NTSC	70%	67%	50%
Interface	MIPI/CPU/SPI+RGB	MIPI	RGB 24 bits
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	On-cell	w/o
Application	POS/Medical/HMI 	POS/Medical/HMI 	MFP/HMI

Size	5.0"	5.0"	5.0"
Display Mode	SFT	SFT	SFT
Part Number	A0500WVF4	A0500WVF5	A0500XWF1
Resolution (pixel)	800*480	800*480	720*1280
Active Area (mm)	108.00*64.80	108.00*64.80	62.10*110.40
Contrast Ratio	1000:1	600:1	800:1
Viewing Angle (U/D/L/R)	85/85/85/85	80/80/80/80	85/85/85/85
NTSC	70%	50%	70%
Interface	RGB/LVDS/MIPI	MIPI	MIPI
Operating Temperature	-30°C~+85°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-40°C~+90°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	2W/Industrial Vehicles 	VoIP/MFP/Scanner 	HMI/Industrial Mobile

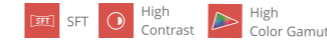
INDUSTRIAL PRODUCTS A SERIES



Size	5.0"	5.5"	7.0"
Display Mode	SFT+In-cell	SFT	TN
Part Number	A0500XWF1xxxxM	A0550XWF1	A0700WVN1
Resolution (pixel)	720*1280	720*1280	800*480
Active Area (mm)	62.10*110.40	68.04*120.96	154.08*85.92
Contrast Ratio	800:1	1000:1	1000:1
Viewing Angle (U/D/L/R)	80/80/80/80	85/85/85/85	60/80/80/80
NTSC	70%	70%	50%
Interface	MIPI	MIPI	RGB
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	In-cell	w/o	w/o
Application	Industrial Mobile/VoIP 	Industrial Mobile/POS/Medical 	HMI/MFP/Scanner/POS/ATM/Kiosk

Size	7.0 "	7.0 "	7.0 "
Display Mode	SFT	SFT	SFT
Part Number	A0700WVF1	A0700WVF2	A0700XWF1
Resolution (pixel)	800*480	1280*768	800*1280
Active Area (mm)	152.40*91.44	152.45*91.47	94.20*150.72
Contrast Ratio	1000:1	1000:1	1000:1
Viewing Angle (U/D/L/R)	85/85/85/85	85/85/85/85	88/88/88/88
NTSC	70%	70%	50%
Interface	LVDS	LVDS	MIPI
Operating Temperature	-20°C~+70°C	-30°C~+85°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-40°C~+90°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	HMI/MFP/Scanner/POS/ATM/Kiosk 	HMI/White goods/Automotive 	HMI/White goods/Automotive

INDUSTRIAL PRODUCTS A SERIES



Size	7.0 "	8.0 "	10.1 "
Display Mode	SFT	SFT	SFT
Part Number	A0700WSF2	A0800WVF1	A1010WUF1
Resolution (pixel)	1024*600	1280*720	1920*1200
Active Area (mm)	153.60*90.00	176.64*99.36	216.81*135.50
Contrast Ratio	900:1	1300:1	1000:1
Viewing Angle (U/D/L/R)	88/88/88/88	88/88/88/88	80/80/80/80
NTSC	50%	73%	70%
Interface	MIPI	LVDS	LVDS/MIPI
Operating Temperature	-20°C~+70°C	30°C~+85°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-40°C~+85°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	HMI/White goods/Automotive 	2W/R-PC 	HMI/R-PC

Size	10.1 "	10.1 "	10.1 "
Display Mode	TN	SFT	SFT
Part Number	A1010WSN1	A1010WSF1	A1010UWF2
Resolution (pixel)	1024*600	1024*600	1920*1200
Active Area (mm)	222.72*125.28	222.72*125.28	216.81*135.50
Contrast Ratio	800:1	1000:1	1000:1
Viewing Angle (U/D/L/R)	75/80/80/80	75/80/80/80	80/80/80/80
NTSC	47%	50%	70%
Interface	RGB 24bit	LVDS/RGB	MIPI
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	VoIP/Medical 	VoIP/Medical/MFP 	HMI/White goods/R-PC

INDUSTRIAL PRODUCTS A SERIES



Size	10.25"	12.3"
Display Mode	SFT	SFT
Part Number	A1025FHF1	A1230FHF1
Resolution (pixel)	1920*720	1920*720
Active Area (mm)	243.65*91.37	292.32*109.62
Contrast Ratio	1000:1	1100:1
Viewing Angle (U/D/L/R)	88/88/88/88	88/88/88/88
NTSC	75%	75%
Interface	LVDS	LVDS
Operating Temperature	-30°C~+85°C	-30°C~+80°C
Storage Temperature	-40°C~+90°C	-40°C~+95°C
Touch Type	w/o	w/o
Application	HMI/R-PC 	HMI/R-PC

Size	12.8"	15.6"
Display Mode	SFT	SFT
Part Number	A1280FHF1	A1560FHF2
Resolution (pixel)	1920*1080	1920*1080
Active Area (mm)	283.39*159.41	344.16*193.59
Contrast Ratio	1400:1	2000:1
Viewing Angle (U/D/L/R)	88/88/88/88	88/88/88/88
NTSC	74%	72%
Interface	LVDS	LVDS
Operating Temperature	-30°C~+85°C	-10°C~+60°C
Storage Temperature	-40°C~+95°C	-20°C~+70°C
Touch Type	w/o	w/o
Application	HMI/R-PC 	HMI/R-PC

INDUSTRIAL PRODUCTS A SERIES



Free Form			
Size	1.4 "	2 "	2.47 "
Display Mode	SFT	SFT	SFT
Part Number	A0140BFF1	A0200RGF1	A0247RHF1
Resolution (pixel)	240*240	320*280	480*480
Active Area (mm)	25.20*25.20	51.60*45.15	62.64*62.64
Contrast Ratio	700:1	800:1	900:1
Viewing Angle (U/D/L/R)	85/85/85/85	80/80/80/80	80/80/80/80
NTSC	71%	70%	65%
Interface	4-w SPI/MIPI	MIPI	MIPI
Operating Temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o	w/o
Application	DSC 	White goods/Automotive/MFP 	White goods/Automotive

Size	2.48 "	2.49 "
Display Mode	TN	SFT
Part Number	A0247RHF1	A0249GEF1
Resolution (pixel)	320*320	320*160
Active Area (mm)	44.64*44.64	56.64*28.32
Contrast Ratio	800:1	800:1
Viewing Angle (U/D/L/R)	70/60/70/70	80/80/80/80
NTSC	50%	70%
Interface	MIPI	MCU/SPI/RGB
Operating Temperature	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o
Application	White goods/Automotive 	White goods/HMI

INDUSTRIAL PRODUCTS A SERIES



Size	3.45 "	3.71 "
Display Mode	SFT	SFT
Part Number	A0345RKF1	A0371FLF1
Resolution (pixel)	800*800	240*960
Active Area (mm)	87.60*87.60	91.44*22.86
Contrast Ratio	800:1	1000:1
Viewing Angle (U/D/L/R)	80/80/80/80	85/85/85/85
NTSC	70%	50%
Interface	MIPI	MIPI
Operating Temperature	-20°C~+70°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+80°C
Touch Type	w/o	w/o
Application	White goods/Automotive 	White goods/Automotive

Size	3.73 "	4.2 "
Display Mode	SFT	SFT
Part Number	A0373KDF1	A0417RKF1
Resolution (pixel)	720*92	720*720
Active Area (mm)	93.96*12.01	105.84*105.84
Contrast Ratio	800:1	1000:1
Viewing Angle (U/D/L/R)	80/80/80/80	85/85/85/85
NTSC	70%	70%
Interface	MIPI	LVDS/RGB
Operating Temperature	-20°C~+70°C	-30°C~+85°C
Storage Temperature	-30°C~+80°C	-40°C~+90°C
Touch Type	w/o	w/o
Application	White goods/Automotive 	2W/Automotive/Marine

INDUSTRIAL PRODUCTS A SERIES



Size	6.8 "	7.84 "
Display Mode	SFT+In-cell	SFT
Part Number	A0680NHF1	A0784HNF1
Resolution (pixel)	1280*530	400*1280
Active Area (mm)	159.36*65.99	190.08*59.40
Contrast Ratio	1000:1	900:1
Viewing Angle (U/D/L/R)	85/85/85/85	80/80/80/80
NTSC	70%	70%
Interface	LVDS	MIPI
Operating Temperature	-30°C~+85°C	-20°C~+70°C
Storage Temperature	-40°C~+90°C	-30°C~+80°C
Touch Type	In-cell	w/o
Application	2W/Automotive 	White goods/Medical

LTPS

Size	5.0 "	5.99 "	7.0 "
Display Mode	LTPS SFT	LTPS SFT+In-cell	LTPS SFT+In-cell
Part Number	A0500HFL1	A0599DFL1xxxxM	A0700HFL1xxxxM
Resolution (pixel)	1080*1920	1080*2160	1080*1920
Active Area (mm)	61.88*110.02	68.04*136.08	86.83*154.37
Contrast Ratio	1000:1	800:1	1000:1
Viewing Angle (U/D/L/R)	85/85/85/85	80/80/80/80	85/85/85/85
NTSC	65%	68%	72%
Interface	MIPI	MIPI	MIPI
Operating Temperature	-20°C~+70°C	-20°C~+60°C	-20°C~+70°C
Storage Temperature	-30°C~+80°C	-30°C~+70°C	-30°C~+80°C
Touch Type	w/o	In-cell	In-cell
Application	White goods/Automotive/VoIP	White goods/Automotive/IM 	White goods/Automotive/VoIP



Size	15.0 "	15.6 "	21.5 "
Display Mode	SFT	SFT	SFT
Resolution (pixel)	1024*768	1920*1080	1920*1080
Active Area (mm)	304.13*228.10	344.16*193.59	476.06*267.79
Contrast Ratio	1300:1	1300:1	1300:1
Viewing Angle (U/D/L/R)	89/89/89/89	89/89/89/89	89/89/89/89
NTSC	60%	72%	72%
Interface	LVDS/eDP	LVDS/eDP	LVDS
Operating Temperature	-20°C~70°C	0°C~60°C	0°C~60°C
Storage Temperature	-30°C~80°C	-20°C~70°C	-20°C~70°C
LED Driver	with	without	without
Application	retail	Retail/all-in-one terminals	Retail/all-in-one terminals/ Digital signage



Size	23.8 "	28.6 "
Display Mode	SFT	SFT
Resolution (pixel)	1920*1080	1920*540
Active Area (mm)	527.04*296.46	698.40*196.43
Contrast Ratio	1300:1	1200:1
Viewing Angle (U/D/L/R)	89/89/89/89	89/89/89/89
NTSC	sRGB 99%	NTSC 72%
Interface	LVDS	LVDS
Operating Temperature	0°C~60°C	-20°C~70°C
Storage Temperature	-20°C~60°C	-30°C~80°C
LED Driver	without	without
Application	Retail/all-in-one terminals/Digital signage	Digital signage



PCAP

3.5 " Resolution 320*240 State Support	4.3 " Resolution 480*272/480*800 State Support	5 " Resolution 800*480/720*1280 State Support	5.7 " Resolution 320*240/640*480 State Support
6.5 " Resolution 640*480 State Support	7 " Resolution 800*480/1024*600 1280*800 State Support	8 " Resolution 800*600/1024*768 State Support	8.4 " Resolution 800*600/1024*768 State Support
10.1 " Resolution 1024*600/1280*800 State Support	10.4 " Resolution 640*480/800*600 1024*768/1280*800 State Support	11.6 " Resolution 1920*1080 State Developing	12.1 " Resolution 1024*768/1280*800 State Support
13.3 " Resolution 1920*1080 State Planning	14 " Resolution 1920*1080 State Developing	15 " Resolution 1024*768 State Support	15.6 " Resolution 1366*768/1920*1080 State Support
17.3 " Resolution 1920*1080 State Developing	18.5 " Resolution 1920*1080 State Support	19 " Resolution 1280*1024 State Support	21.5 " Resolution 1920*1080 State Support
23.8 " Resolution 3840*2160/ 1920*1080 State Developing	27 " Resolution 1920*1080 State Planning		