

TFT LCM Solution Guide

DigiWise International Corporation

Whatever your display needs maybe, we feel very confident that DigiWise has the right product or solution for you.

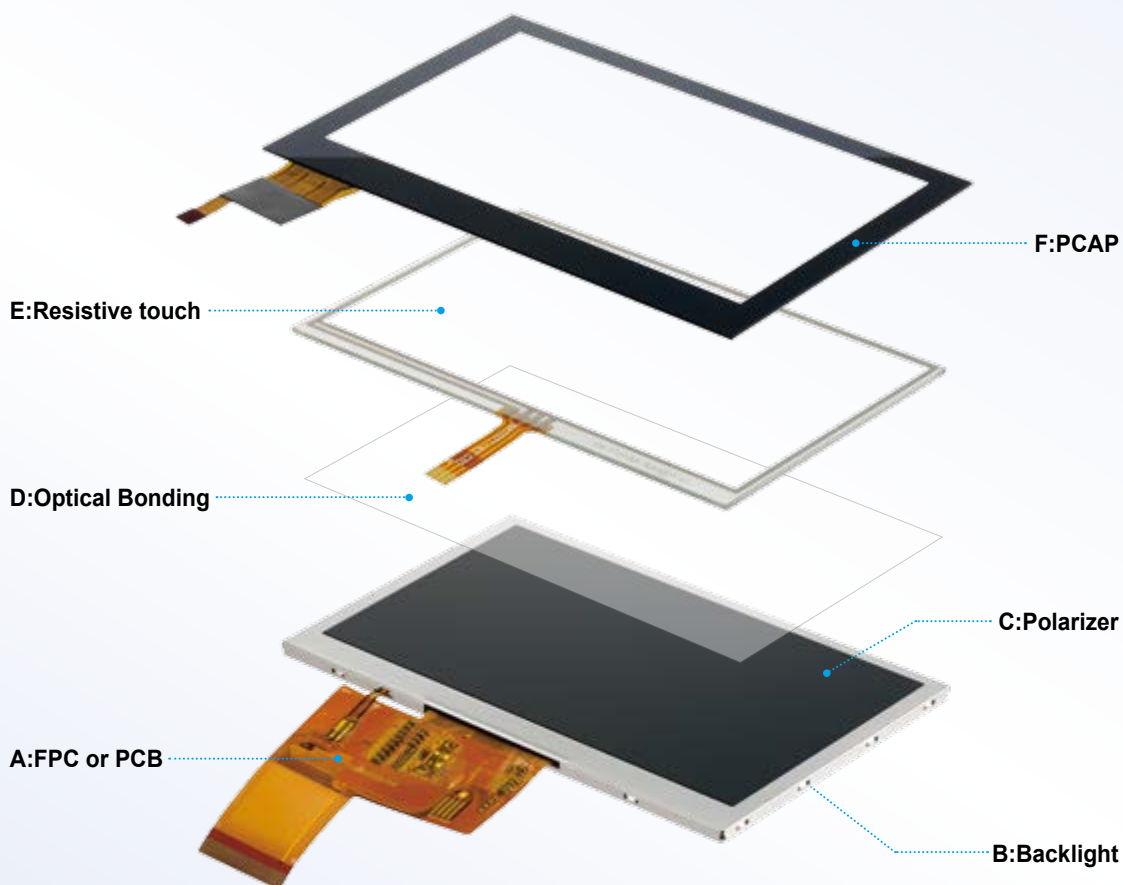
Applications

- ▶ Industrial / Rugged Display
- ▶ High Bright / Touch Display
- ▶ Display System Integration
- ▶ Retail / POS / Information
- ▶ Automation / HMI / Transportation



Technologies

With unique design for the option enhancement technology, DigiWise provides the most advanced and the cost effective for Sunlight readable TFT display, in which it doesn't generate any extra power consumption, excess heat generation and modify the backlight. The aim is to equip a LCD with sufficient reflective function but without compromising its original transmissive and feature and comes with perfect brightness and color saturation for many indoor and outdoor applications



The table below shows all of combinations will cause the various result under the presense of the strong ambient light

Description			Application Suggestions			Available sizes
Item	Part	Option	Indoor	Semi outdoor	Full outdoor	3.5" to 10.4"
A	FPC	ST	v	v	v	3.5" to 5.7"
	PCB	ST	v	v	v	5.7" to 10.4"
B	BL (nits)	250~400	v			All
		400~800	v	M	L	
		> 1000		H	H	
C	Polarizer	AG	v	L	v	All
		HC	v	L	v	
		AR		H		
		TMR(Bottom)		M	v	
		O-film	v	L	v	
D	Bonding	Air	v	L		All
		Optical		H	v	
E	RTP	4W	v	L		All
		5W	v	L		
		SR		M	v	
F	PCT	ST	v	v	v	All

The explanation of abbreviation ST : Standard AG : Anti-Glare HC : Clear Hard coating AR : Anti-Reflection TMR : Transmissive-Micro-Reflective
O-film : No grey inversion image for TN Type LCD SR : Sunlight Readable 4W : 4 wire resistive touch 5W : 5 wire resistive touch
Effect Level for different combination L: Low M: Middle H: High



Whenever you are looking for someone to help you design and manufacture the right solution within budget and timeframe – DigiWise will provide you with the product that fits the profile.



Digiwise is specialized in industrial LCD panel solutions. It employs skilled and experienced staff within the field of displays, backlights, touch and integration. The company has a strong R&D base which is combined with our sales & marketing team who have a proven track record for more than 15 years.

Our specialty is to provide customers with a full range of TFT DISPLAYS from sizes between 1.77" up to 12.1", including standard and semi-custom products as well as engineering services, manufacturing, integration and supply chain solutions. From prototype to new product introduction, supply chain solutions to life cycle management, we will work with your team to provide electronic assemblies and design solutions to meet your requirements.

In the face of a highly evolving and competitive market, Digiwise is committed to investing in Research and Development with the goals of providing new cutting edge products at very affordable prices. In addition, we strongly value the special relationship with our customers to meet or exceed their requirements. Digiwise is your trusted solution partner and it is with great pride that we bring new concepts to the market.

We design and offer Added Value Reseller....

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Product Spec List

DW201510V6

Size	Model No.	Resolution	Viewing Direction	Outline Dimension	Active Area	Interface	L (cd/m ²)	Temperature O.T/S.T	Touch Panel
2.8" VGA	13-028QMTB00A0-S	240RGB x 320	12(Gray inversion)	49.8 x 69 x 2.45	43.2 x 57.6	MCU parallel / RGB	500	-20~70/-30~80	-
	13-028QMTB00A2-S						300		-
3.5" QVGA	13-035QMTB00A0-S	320RGB x 240	6(Gray inversion)	76.9 x 63.9 x 3.3	70.08 x 52.56	Parallel RGB-24 bit / 54pin	900	-20~70/-30~80	-
	13-035QMTB4RA0-S			76.9 x 63.9 x 4.4			720		4-wire RTP
	13-035QMTB1AA0-S			76.9 x 63.9 x 4.9			800		PCT_I2C
	13-035QMTB00A1-S			76.9 x 63.9 x 3.3			500		-
	13-035QMTB4RA1-S			76.9 x 63.9 x 4.4			400		4-wire RTP
	13-035QMTB1AA1-S			76.9 x 63.9 x 4.9			450		PCT_I2C
	13-035QMTB00A2-S			76.9 x 63.9 x 3.3			900		-
	13-035QMTB00A3-S			76.9 x 63.9 x 3.3			700		-
	13-035QMTB00B0-S			76.9 x 63.9 x 3.15			1500		-
			6(Gray inversion)						
4.3" W WQVGA	13-043YMTB00A0-S	480RGB x 272	6(Gray inversion)	105.5 x 67.2 x 2.9	95.04 x 53.856	Parallel RGB-24 bit/40 pin	900	-20~70/-30~80	-
	13-043YMTB4RA0-S			105.5 x 67.2 x 4.0			720		4-wire RTP
	13-043YMTB1AA0-S			116.04 x 74.85 x 4.9			800		PCT_I2C
	13-043YMTB00A1-S			105.5 x 67.2 x 2.9			500		-
	13-043YMTB4RA1-S			105.5 x 67.2 x 4.0			400		4-wire RTP
	13-043YMTB1AA1-S			116.04 x 74.85 x 4.9			400		PCT_I2C
	13-043YMTB00A2-S			105.5 x 67.2 x 2.9			900		-
	13-043YMTB00A3-S			105.5 x 67.2 x 2.9			700		-
	13-043YMTB00A7-S		Free of All	105.5 x 67.2 x 2.9			250		4-wire RTP
	13-043YMTB4RA7-S			105.5 x 67.2 x 4.0			220		-
	13-043YMTB4RB0-S		6(Gray inversion)	105.5 x 67.2 x 4.0		Parallel RGB-24 bit/45 pin	350		4-wire RTP
	13-050WMTB00A1-S	800RGB x 480	6(Gray inversion)	118.5 x 77.55 x 3.4	108.0 x 64.8	Parallel RGB-24 bit/40 pin	700	-20~70/-30~80	-
	13-050WMTB4HA1-S			118.5 x 77.55 x 4.5			560		4-wire RTP
	13-050WMTBPIA1-S			142.0 x 94 x 5.85			600		PCT_I2C
	13-050WMTB00A2-S			118.5 x 77.55 x 3.4			700		-
	13-050WMTB00A3-S		Free of All	118.5 x 77.55 x 3.4			500		-
	13-050WMTB00B0-S			118.4 x 77.45 x 3.0			1000		-
	13-050WMTB4RB0-S		6(Gray inversion)	118.4 x 77.45 x 4.1			800		4-wire RTP
	13-050WMTB00B1-S		Free of All	118.4 x 77.45 x 3.0			800		-
	13-050WMTB00B2-S			118.4 x 77.45 x 3.0			1000		-
			6(Gray inversion)						
5.7" QVGA	13-057QMTB00B0-S	320RGB x 240	6(Gray inversion)	144 x 104.6 x 12.8	115.2 x 86.4	Parallel RGB-18 bit/33 pin	800	-20~70/-30~80	-
	13-057QMTB1AB0-S			144 x 104.6 x 15.28			700		PCT_I2C
	13-057QMTB4RB0-S			144 x 104.6 x 14.3			640		4-wire RTP
	13-057QMTB00B1-S			144 x 104.6 x 12.8			1500		-
	13-057QMTB4RB1-S			144 x 104.6 x 14.3			1200		4-wire RTP
	13-057QMTB00C0-S			144 x 104.6 x 12.8		Parallel RGB-18 bit/40pin/LED. Dr	800		-
	13-057QMTB4RC0-S			144 x 104.6 x 14.3			640		4-wire RTP
	13-057QMTB00C1-S			144 x 104.6 x 12.8			1500		-
	13-057QMTB4RC1-S			144 x 104.6 x 14.3			1200		4-wire RTP
5.7" VGA TTL	13-057VMTB00B0-S	640RGB x 480	6(Gray inversion)	144 x 104.6 x 12.8	115.2 x 86.4	Parallel RGB-18 bit/33 pin	600	-20~70/-30~80	-
	13-057VMTB4RB0-S			144 x 104.6 x 14.3			480		4-wire RTP
	13-057VMTB1AB0-S			144 x 104.6 x 15.28			500		PCT_I2C
	13-057VMTB00B1-S			144 x 104.6 x 12.8			1200		-
	13-057VMTB4RB1-S			144 x 104.6 x 14.3			960		4-wire RTP
	13-057VMTB00C0-S			144 x 104.6 x 12.8		Parallel RGB-18 bit/40pin/LED.Dr	600		-
	13-057VMTB4RC0-S			144 x 104.6 x 14.3			480		4-wire RTP
	13-057VMTB00C1-S			144 x 104.6 x 12.8			1200		-
	13-057VMTB4RC1-S			144 x 104.6 x 14.3			960		4-wire RTP
5.7" VGA LVDS	13-057VMLB00B0-S	640RGB x 480	6(Gray inversion)	144 x 104.6 x 12.8	115.2 x 86.4	LVDS-6 bit/20 pin	600	-20~70/-30~80	-
	13-057VMLB4RB0-S			144 x 104.6 x 14.3			480		4-wire RTP
	13-057VMLB1AB0-S			144 x 104.6 x 15.28			500		PCT_I2C
	13-057VMLB00B1-S			144 x 104.6 x 12.8			1200		-
	13-057VMLB4RB1-S			144 x 104.6 x 14.3			960		4-wire RTP
	13-057VMLB1AB1-S			144 x 104.6 x 15.28			1000		PCT_I2C
5.7" VGA Narrow Type	13-057VMTB00A0-S	640RGB x 480	12(Gray inversion)	127 x 98.43 x 5.8	115.2 x 86.4	Parallel RGB-18 bit/40pin/LED Driver	600	-20~70/-30~80	-
	13-057VMTB4RA0-S			127 x 98.43 x 7.0			500		4-wire RTP
	13-057VMTB00A1-S			127 x 98.43 x 5.8			900		-
	13-057VMTB4RA1-S			127 x 98.43 x 7.0			720		4-wire RTP
	13-057VMTB00A2-S		Free of All	127 x 98.43 x 5.8			630		-
7.0" W WVGA TTL	13-070WMTB00A0-S	800RGB x 480	6(Gray inversion)	165.0 x 104.0 x 3.5	153.6 x 86.64	Parallel RGB-18 bit/40pin/LED.Dr	650	-20~70/-30~80	-
	13-070WMTB4RA0-S			165.0 x 104.0 x 5.3			500		4-wire RTP
	13-070WMTB1AA0-S			165.0 x 104.0 x 5.98			580		PCT_I2C
	13-070WMTB00A1-S			165.0 x 104.0 x 3.5			1000		None
	13-070WMTB4RA1-S			165.0 x 104.0 x 5.3			800		4-wire RTP
	13-070WMTB1AA1-S			165.0 x 104.0 x 5.98			850		PCT_I2C
	13-070WMTB00A2-S			165.0 x 104.0 x 3.5			400		-
	13-070WMTB4RA2-S			165.0 x 104.0 x 5.3			320		4-wire RTP
	13-070WMTB00C0-S			165.0 x 104.44 x 5.3	152.4 x 91.44	Parallel RGB-18 bit/40 pin	350		-
	13-070WMTB4RC0-S			165.0 x 104.44 x 6.9			280		4-wire RTP
7.0" W WVGA LVDS	13-070WMLB00A0-S	800RGB x 480	6(Gray inversion)	165.0 x 104.0 x 3.5	153.6 x 86.64	LVDS-6 bit/20 pin/LED.Dr	650	-20~70/-30~80	-
	13-070WMLB4RA0-S			165.0 x 104.0 x 5.3			500		4-wire RTP
	13-070WMLB1AA0-S			165.0 x 104.0 x 5.98			580		PCT_I2C
	13-070WMLB00A1-S			165.0 x 104.0 x 3.5			1000		-
	13-070WMLB4RA1-S			165.0 x 104.0 x 5.3			800		4-wire RTP
	13-070WMLB1AA1-S			165.0 x 104.0 x 5.98			850		PCT_I2C
	13-070WMLB00A2-S			165.0 x 104.0 x 3.5			400		-
	13-070WMLB4RA2-S			165.0 x 104.0 x 5.3			320		4-wire RTP
7.0" W WSVGA LVDS	13-070XMLB00B0-S	1024RGB x 600	6(Gray inversion)	165.0 x 104.0 x 3.5	153.6 x 86.64	LVDS-6 bit/20 pin/LED.Dr	500	-20~70/-30~80	None
	13-070XMLB4RB0-S			165.0 x 104.0 x 5.3			400		4-wire RTP
	13-070XMLB1AB0-S			182.6 x 117 x 10.08			430		PCT_I2C
	13-070XMLB00B1-S			165.08 x 104.0 x 3.5			700		-
	13-070XMLB4RB1-S			165.0 x 104.0 x 5.3			560		4-wire RTP
	13-070XMLB1AB1-S			182.6 x 117 x 10.08			600		PCT_I2C

*The TFT display with AR polarizer film for outdoor application

Product Spec List

DW201510V6

Size	Model No.	Resolution	Viewing Direction	Outline Dimension	Active Area	Interface	L (cd/m ²)	Temperature O.T/S.T	Touch Panel
8.0" SVGA	13-080SMTB00A0-S	800RGB x 600	6(Gray inversion)	183.0 x 141.0 x 5.8	162.0 x 121.5	Parallel RGB-18 bit/40 pin	500	-20~70/-30~80	-
	13-080SMTB4RA0-S			183.0 x 141.0 x 7.35			400		4-wire RTP
	13-080SMTB4RB0-S			183.0 x 141.0 x 7.35			400		4-wire RTP
	13-080SMTB4RC0-S			183.0 x 141.0 x 7.35			400		4-wire RTP
	13-080SMTB00A1-S			183.0 x 141.0 x 5.8		Parallel RGB-18 bit/40pin/LED.Dr	500		-
	13-080SMTB00A2-S			183.0 x 141.0 x 5.8			750		-
	13-080SMTB00A3-S			183.0 x 141.0 x 6.3		Parallel RGB-18 bit/40 pin	1300		-
	13-080SMLB00A0-S			183.0 x 141.0 x 5.8			500		4-wire RTP
	13-080SMLB4RB0-S			183.0 x 141.0 x 7.35			400		4-wire RTP
	13-080SMLB4RC0-S			183.0 x 141.0 x 7.35			400		-
	13-080SMLB00A1-S			183.0 x 141.0 x 5.8		LVDS 6 bit/20 pin	750		-
	13-080SMLB00A2-S			183.0 x 141.0 x 5.8			1300		-
	13-080SMLB00D0-S			183.0 x 141.0 x 6.3			500		-
	13-080SMLB4HD0-S			183.0 x 141.0 x 7.3			400		-
8.0" XGA	13-080GILB00A0-S	1024RGB x 768	IPS	183.0 x 141.0 x 6.3	162.048 x 121.536	LVDS-6 bit/20 pin	1200	-10~50/-20~60	-
	13-080GILB4RB0-S			183.0 x 141.0 x 7.85			1000		4-wire RTP
	13-080GILB00A1-S			183.0 x 141.0 x 6.3		LVDS-6 bit/20 pin/LED. Dr	600		-
	13-080GILB4HA1-S			183.0 x 141.0 x 7.85			500		4-wire RTP
10.1"W WXVGA	13-101XMLA00A1-S	1024RGB x 600	6(Gray inversion)	235.0 x 143.0 x 3.8	222.72 x 125.22	LVDS-6 bit/20pin/LED. Dr	450	-10~50/-20~60	-
	13-101XMLA4RA0-S			235.0 x 143.0 x 5.36			360		4-wire RTP
	13-101XMLA5RA0-S			235.0 x 143.0 x 6.15			360		5-wire RTP
	13-101XMLAPCA0-S			247.8 x 158.82 x 6.15			360		PCT_USB
	13-101XMLA00A0-S			235.0 x 143.0 x 3.8			300		-
	13-101XMLA4RA1-S			235.0 x 143.0 x 5.36			240		4-wire RTP
	13-101XMLA5RA1-S			235.0 x 143.0 x 6.15			240		5-wire RTP
	13-101XMLAPCA1-S			247.8 x 158.82 x 6.15			240		-
10.1" W WSVGA	13-101XMLA00C1-S	1024RGB x 600	6(Gray inversion)	235.0 x 143.0 x 3.8	222.72 x 125.22	LVDS-6 bit/20pin/LED. Dr	450	-20~70/-30~80	PCT_USB
	13-101XMLA4RC0-S			235.0 x 143.0 x 5.36			360		4-wire RTP
	13-101XMLA5RC0-S			235.0 x 143.0 x 6.15			360		5-wire RTP
	13-101XMLAPCC0-S			247.8 x 158.82 x 6.15			360		PCT_USB
	13-101XMLA1A1C1-S			260.92 x 163.48 x 6.38			360		PCT_I2C
	13-101XMLA00C0-S			235.0 x 143.0 x 3.8			300		-
	13-101XMLA4RC1-S			235.0 x 143.0 x 5.36			240		4-wire RTP
	13-101XMLA5RC1-S			235.0 x 143.0 x 6.15			240		5-wire RTP
	13-101XMLAPCC1-S			247.8 x 158.82 x 6.15			240		PCT_USB
	13-101XMLA00C9-S			235.0 x 143.0 x 9.5		LVDS-6 bit/20pin	1000		-
	13-101XMLA4HC9-S			235.0 x 143.4 x 7.61			800		4-wire RTP
	13-101XMLA1A1C9-S			260.92 x 163.48 x 7.88			800		PCT_I2C
10.1" W WXGA	13-101ZMLB00A0-S	1280RGB x 800	12(Gray inversion)	229.5 x 152.5 x 5.5	216.95 x 135.6	LVDS-6 bit / 20pin	450	-10~50/-20~60	-
	13-101ZMLB4RA0-S			229.5 x 152.5 x 7.05			360		4-wire RTP
	13-101ZMLB4UA0-S			229.5 x 152.5 x 7.05			360		4-wire RTP
	13-101ZMLBPCA0-S			229.5 x 152.5 x 9.85		LVDS-8 bit / 30pin	400	-20~60/-30~70	PCT_USB
	13-101ZMVBPCA0-S			229.5 x 152.5 x 9.85			400		PCT_USB
	13-101ZMLB00B0-S			230 x 150 x 6.5		LVDS-6 bit / 20pin	1150		-
	13-101ZMLBPUB0-S			255.56 x 174.2 x 9.05			1000		PCT_USB
10.1"W WXGA	13-101ZIEB00C0-S	1280RGB x 800	IPS	229.46 x 149.1 x 4.8	216.95 x 135.6	LVDS-8 bit/30pin/LED. Dr	500	-20~70/-30~80	-
	13-101ZIEB4UC0-S			229.46 x 149.1 x 6.33			400		4-wire RTP
	13-101ZIEBUAC0-S			255.56 x 174.2 x 7.35			430		PCT_USB
	13-101ZIEB00C1-S			229.46 x 149.1 x 4.8			1000		-
	13-101ZIEB4UC1-S			229.46 x 149.1 x 6.33			800		4-wire RTP
	13-101ZIEBUAC1-S			255.56 x 174.2 x 7.35			850		PCT_USB
10.4" SVGA	13-104VMTB00A0-S	800RGB x 600	6(Gray inversion)	228.4 x 175.4 x 5.9	211.2 x 158.4	Parallel RGB-18 bit/40pin/LED.Dr	250	-10~50/-20~60	-
	13-104VMTB4RA0-S			228.4 x 177.7 x 7.4			200		4-wire RTP
	13-104VMTB00A1-S			236 x 174 x 5.7			600		-
	13-104VMTB4RA1-S			228.4 x 177.7 x 7.4			480		4-wire RTP
	13-104SMLE00C1-S			243 x 184 x 6.5		LVDS-6/8 bit/20pin	1200		-
10.4" XGA	13-104GMLB00A0-S	1024RGB x 768	6(Gray inversion)	236 x 174 x 5.7	211.2 x 158.4	LVDS-6 bit/30pin	1000	-20~70/-30~80	-
	13-104GMLB4RA0-S			236 x 174 x 7.25			800		4-wire RTP
	13-104GMLB5RA0-S			236 x 174 x 8.0			800		5-wire RTP
	13-104GMLB1AA0-S			264.6 x 204 x 8.22			900		PCT_I2C
	13-104GMLBPUA0-S		Free of All	236 x 174.3 x 8.85			900		PCT_USB
	13-104GOLB00A0-S			236 x 174 x 5.7			800		-
	13-104GMLB00A1-S			236 x 174 x 5.7			400		-
	13-104GMLB4RA1-S		6(Gray inversion)	236 x 174 x 7.25			320		4-wire RTP
	13-104GMLB5RA1-S			236 x 174 x 8.0			320		5-wire RTP
	13-104GMLB1AA0-S			264.6 x 204 x 8.22			360		PCT_I2C
	13-104GMLBPUA1-S			236 x 174.3 x 8.85			360		PCT_USB
	13-104GMLB00B0-S			236 x 174.3 x 5.7			1200		-
	13-104GMLB4RB0-S			236 x 174.3 x 7.25			960		4-wire RTP
	13-104GMLB00B1-S			236 x 174.3 x 5.7			1500		-
	13-104GOLB00B1-S		Free of All	236 x 174.3 x 5.7			1200		-
12.1" XGA	13-121GMLB00A0-S	1024RGB x 768	Wide viewing angle	260.5 x 204 x 7.2	245.76 x 184.32	LVDS 8 bits/20pin/LED. Dr	500	-30~70/-40~80	-
	13-121GMLB4GA0-S			260.5 x 204 x 9.55			400	-20~70/-30~80	4-wire RTP
	13-121GMLBPSA0-S			287.67 x 226.2 x 10.5		LVDS 6/8 bits/20pin	450	-30~85/-30~85	PCT_USB
	13-121GMLC00B0-S			279 x 209 x 9.0			1000		-
	13-121GMLC00B1-S			279 x 209 x 9.0			1500		-

*The TFT display with AR polarizer film for outdoor application



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