



上海冠显光电
TOP DISPLAY OPTOELECTRONICS

DISPLAY MODULE

PRODUCT
BROCHURE

Top Display Optoelectronics (TDO) is a professional display supplier that integrates R&D, manufacturing, and sales of display modules ranging from 0.32 inches to 55 inches. TDO was founded in Shanghai by a team of engineers boasting over 20 years of experience in R&D and operations. Leveraging top-notch innovation and operational expertise, we proudly operate an automated display module production facility in Shenzhen. Additionally, we have developed our proprietary software, Giraffe IDE, for UI design.

We are committed to become the leader in LCD/OLED display, intelligent display, and near-eye displays. With distributors across more than 40 countries, our displays are widely embraced in various markets such as smart homes, IoT, industrial control, and the medical sector.

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More
products



Intelligent Display
Product Brochure



Near-eye Display
Product Brochure



Inter-link
Product Brochure

AMOLED Module

AMOLED has the advantages of high resolution, low power consumption, and low temperature operation of -40°C. It is mainly used in medical, wearable and industrial tablets.

High resolution

Working at -40 °C

High color saturation

Low power consumption



Advantages



Slim & portable

No additional backlighting components are required, making the device more portable and the design more advantageous



Low power consumption

Self-illuminating properties to reduce energy consumption



Fast response

Self-illuminated pixel dots for extremely fast response time



High color contrast

Present very rich and vivid colors, and the picture is more realistic and brighter

AMOLED Module List

Size	Resolution	Model Number	A.A Size(mm)	Outline(mm)	Luminance (cd/m ²)	Interface	Remark
1.43"	466RGB*466	TA014WVC07	Φ=36.35	39.35*39.55*0.80	400	MIPI/QSPI	CTP(on cell)
1.78"	368RGB*448	TA018NHV02	28.70*34.94	30.60*37.99*0.80	350	MIPI/SPI	CTP(on cell)
2.4"	450RGB*600	TA024VGV01	36.72*49.12	30.60*37.99*0.80	800	MIPI/SPI	CTP
3.92"	1080RGB*1240	TA039SXV01	65.45*75.14	67.25*79.87*0.73	500	MIPI	CTP(on cell)
5.44"	1080RGB*1920	TA055FHV11	67.82*120.58	69.70*126.60*0.79	300	MIPI	CTP(on cell)
7"	1080RGB*1920	TA070FHV01	87.134*154.90	89.13*160.91*1.67	800	MIPI	CTP(on cell)

TFT LCD Display Modules

TDO LCD display modules cover a variety of shapes, sizes, interfaces, TN/IPS viewing angles, and support resistive/capacitive touch. We can provide customized services including interface type, brightness, cover glass, touch panel, sunlight readable, etc, which can meet the special requirements of customers.

Size 1.77"-55"	CTP/RTP
MCU/SPI/RGB/MIPI/LVDS	TN/IPS



Theview® Technology

Patented Technology from TDO

Theview® outdoor sunlight readable display module is one new display technology with above 5 patents, which can reduce the reflection of outdoor sunlight interference while enhancing the effectiveness of the display module to achieve effective reflection.

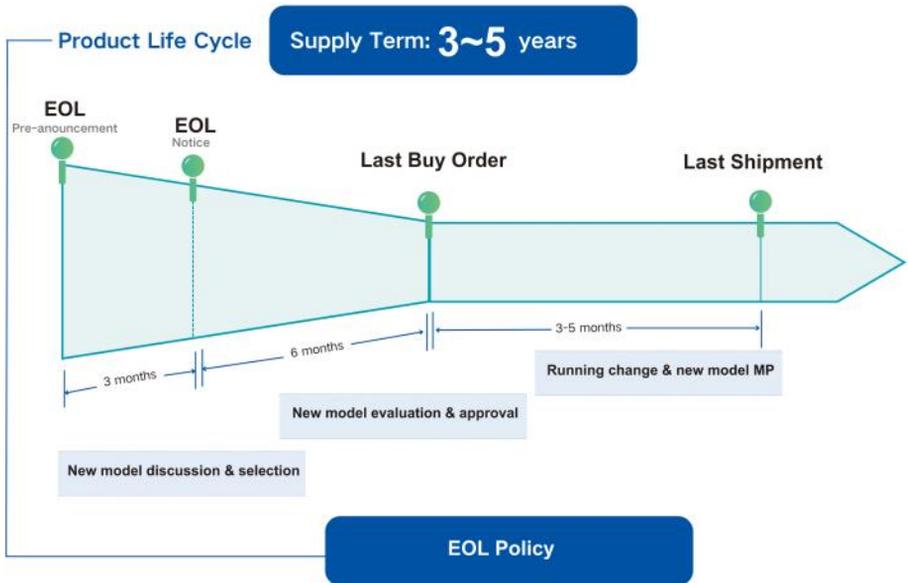
Theview™ technology can be widely used in charging piles, electric bicycle, instrumentation, construction machinery and other outdoor terminal products.

Technology Mode	Outdoor Readability	Indoor Readability	Power consumption
Transmissive	Poor	Good	High
Transflective	Good	Poor	Low
Theview™(TDO)	Good	Good	Low

Customized Service

 <p>Waterproof & Wet Hand Operation</p>	 <p>Glove Touch</p>	 <p>Touch Interface Options</p>	 <p>Anti-Impact</p>
 <p>Anti-Glare</p>	 <p>Anti-Reflective</p>	 <p>Anti-fingerprint</p>	 <p>Full Black Cover Glass</p>
 <p>Optical Bonding</p>	 <p>High Brightness</p>	 <p>Long Lifetime</p>	 <p>New Panel</p>

End of Life Policy



TFT-LCD Module List

Shape	Size	Resolution	Model Number	A A Size(mm)	Outline(mm)	Luminance (cd/m ²)	Interface	Remark	
Normal Landscape	3.5"	320RGB*240	TL035QVH11-H1205A	70.08*52.56	76.90*63.90*2.85	350	RGB	IPS/CTP	
		640RGB*480	TL035VGH11-P1372B	70.08*52.56	76.90*63.90*3.05	360	MIPI	IPS/CTP	
	4.3"	480RGB*272	TL043WQH27-B1605A	95.04*53.86	105.50*67.20*3.00	500	RGB	IPS/CTP	
		480RGB*272	TL043WQH36-B1690C	95.04*53.86	105.40*67.10*2.95	500	MCU/SPI	IPS/CTP	
	5.0"	800RGB*480	TL043WVH03-B1571A	95.04*53.86	105.50*67.20*2.50	450	RGB	IPS/CTP	
		800RGB*480	TL050VWH12-B1714A	108.00*64.80	120.70*75.80*2.90	500	RGB	IPS/RTP/CTP	
	5.7"	640RGB*480	TL057VGH01-B1712B	115.20*86.40	127.00*98.43*5.80	500	RGB	IPS	
		640RGB*480	TL057VGH03-B1757A	115.20*86.40	127.00*98.43*5.80	500	LVDS	IPS	
	7.0"	800RGB*480	TL070VWH31-B1705A	153.84*85.63	164.9*100.0*3.52	360	RGB	TN/RTP/CTP	
		800RGB*480	TL070VWH94-B1769B	153.84*85.63	164.9*100.0*5.45	400	RGB	IPS	
		1024RGB*600	TL070WSH29-B1342C	154.21*85.92	164.90*100.00*3.45	500	RGB	IPS/RTP/CTP	
		1024RGB*600	TL070WSH53-B1343A	154.21*85.92	164.90*100.00*3.45	500	LVDS	IPS/RTP/CTP	
	8"	800RGB*600	TL080SVH19-B1755A	162.00*121.50	183.0*141.0*5.60	300	RGB	TN/CTP	
		800RGB*600	TL080SVH19-B1755B	162.05*121.54	183.0*141.0*3.40	250	RGB	TN/CTP	
	10.1"	1024RGB*600	TL101WSH22-B1603A	222.72*125.28	235*143*2.9	300	RGB	IPS/CTP	
		1024RGB*600	TL101WSH31-B1634A	222.72*125.28	235*143*2.9	300	MIPI	IPS/CTP	
		1024RGB*600	TL101WSH23-B1677A	222.72*125.28	235*143*2.9	300	LVDS	IPS/CTP	
		1280RGB*800	TL101WXH28-H1600A	216.96*135.6	229.10*148.9*2.75	420	LVDS	IPS/CTP	
	12.1"	1280RGB*800	TL121WXH01-B1725A	261.12*163.2	277.7*180.6*7.50	600	LVDS	IPS	
	13.3"	1920RGB*1080	TL133FHH01-B1819A	293.76*165.24	307.60*183.05*5.50	600	EDP	IPS	
14"	1920RGB*1080	TL140FHH01C-B1766A	309.31*173.98	315.9*197.57*3.0	250	EDP	IPS		
15.6"	1920RGB*1080	TL156FHH01-X1698A	344.16*193.59	351.86*206.33*3.20	250	LVDS	IPS/CTP		
21.5"	1920RGB*1080	TL215FHH01-B1648A	478.66*260.28	495.64*292.21*9.85	300	LVDS	IPS		
Normal Portrait	1.77"	128RGB*160	TL018QQV07-H1021A	28.03*35.04	34.70*46.70*2.35	280	SPI	TN	
	2.0"	240RGB*320	TL020QVV15-H1184A	30.60*40.80	37.68*51.32*2.20	250	MCU8bit	IPS	
	2.4"	320RGB*480	TL024HV04-B1387A	32.8*49.68	38.90*61.30*2.10	350	MIPI	IPS	
	3.5"	320RGB*480	TL035HV65-H1558A	48.96*73.44	55.26*84.69*2.25	300	MCU16bit	TN/CTP	
		480RGB*854	TL050FWV20-H1336A	62.06*110.42	66.40*120.05*2.22	300	3SPI+RGB	TN/CTP	
	5.0"	720RGB*1280	TL050HDV35-H1311A	62.10*110.40	64.60*118.80*1.69	350	MIPI	IPS/CTP	
		480RGB*960	TL060WV01-I1360A	68.04*136.08	70.24*142.59*2.0	500	3SPI+RGB	IPS/CTP	
	6.0"	720RGB*1440	TL060HDV01-I1785A	68.04*136.08	83.80*151.80*2.795	360	MIPI	IPS/CTP	
		720RGB*1280	TL070HDV03-H1018C	86.94*154.56	90.34*162.95*2.15	400	MIPI	IPS/CTP	
	7.0"	1200RGB*1920	TL070FHV01-P1710A	94.50*151.20	99.65*160.85*2.40	800	MIPI	IPS	
	8"	800RGB*1280	TL080WXV34-M1592B	107.64*172.22	114.4*183.9*2.48	400	MIPI	IPS/CTP	
	10.1"	800RGB*1280	TL101WXV35-M1687B	135.36*216.57	143.00*228.60*2.60	430	MIPI	IPS/CTP	
		1200RGB*1920	TL101WXV41-M1772A	135.36*216.58	143.00*228.60*2.60	350	MIPI	IPS/CTP	
	Industrial products	7.0"	800RGB*480	TL070WVH83-T1721A	152.4*91.44	165.00*104.0*3.50	500	RGB	IPS/Landscape
			800RGB*480	TL070WVH82-T1720A	152.40*91.44	165.00*104.0*3.50	500	RGB	IPS/CTP
9.7"		1024RGB*768	TL097XGH03-H1726A	196.61*147.46	210.21*164.25*2.85	380	LVDS	IPS/Landscape	
10.4"		1024RGB*768	TL104XGH01	211.2*158.4	236.00*174.30*7.40	600	LVDS	IPS/Landscape	
12.1"		1024RGB*768	TL121XGH01	245.76*184.32	260.50*204.00*8.60	600	LVDS 6/8bit	IPS/Landscape	
15.0"		1024RGB*768	TL150XGH10	304.13*228.10	326.50*253.50*9.70	350	LVDS 6bit	IPS/Landscape	

Shape	Size	Resolution	Model Number	A.A Size(mm)	Outline(mm)	Luminance (cd/m ²)	Interface	Remark
Circular	1.28"	240RGB*240	TL013QVC29-H1701A	Φ=32.40	35.60*38.10*1.64	500	4SPI	IPS/CTP
		480RGB*480	TL021WVC02-B1323B	Φ=53.28	56.18*59.71*2.30	500	RGB	IPS/CTP
	2.1"	480RGB*480	TL021WVC03-B1324B	Φ=53.28	56.18*59.71*2.30	500	MIPI	IPS/CTP
		480RGB*480	TL028WVC01-B1621A	Φ=70.13	73.03*76.48*2.34	430	RGB	IPS/SPI
	2.76"	480RGB*480	TL028WVC02-B1647A	Φ=70.13	73.03*76.48*2.34	280	MIPI	IPS/SPI
		800RGB*800	TL034HDC01-B1619A	Φ=87.6	94.9*96.95*2.3	350	MIPI	IPS/CTP
	3.54"	800RGB*640	TL035SVC02-H1768A	90.00*72.00	97.60*83.79*4.00	350	MIPI	semicircular
	4"	720RGB*720	TL040HDC01-B1613A	Φ=101.52	105.3*109.6*2.30	300	RGB	IPS
		720RGB*720	TL040HDC03-B1748A	Φ=101.52	105.3*109.6*2.30	300	MIPI	IPS
	Square	3.4"	480RGB*480	TL034WVS05-B1477A	60.48*60.48	70.45*70.32*1.89	390	RGB
480RGB*480			TL034WVS03-B1476A	60.48*60.48	70.45*72.32*1.89	390	MIPI	IPS/CTP
3.92"		320RGB*320	TL039SQS02-B1717A	71.136*69.82	125.00*125.00*4.86	300	SPI	IPS/CTP
4.0"		480RGB*480	TL040WVS14-B1617A	71.86*70.18	74.83*78.98*1.92	300	3SPI+RGB	IPS/CTP
		480RGB*480	TL040WVS17-B1711A	71.86*70.18	74.83*78.98*1.92	300	MIPI	IPS/CTP
		720RGB*720	TL040HDS30-B1620A	71.93*71.93	74.83*78.98*1.46	300	3SPI+RGB	IPS/CTP
		720RGB*720	TL040HDS31-B1623A	71.93*71.93	74.83*78.98*1.46	300	RGB	IPS/CTP
Bar Type	2.86"	320RGB*820	TL032FWV01-I1440A	26.4*67.65	31.2*76.6*2.4	300	3SPI+RGB	IPS/CTP
	3.5"	340RGB*800	TL035WV33-B1683A	33.97*81.0	37.27*89.0*1.52	460	3SPI+RGB	IPS/CTP
	3.99"	400RGB*960	TL040FWV02-B1519B	39.18*94.03	42.90*102.08*2.23	500	3SPI+RGB	IPS/CTP
	6.1"	280RGB*1424	TL061HVD01-B1841A	29.98*152.51	36.39*163.86*4.25	450	MIPI	IPS
	6.75"	480RGB*1280	TL068WXH14-B1747A	60.19*160.51	66.60*181.0*4.75	420	MIPI	IPS/CTP
	6.86"	480RGB*1280	TL068HWXH12-B1596A	60.22*160.59	66.60*181.0*4.75	550	LVDS	IPS/CTP
	6.88"	280RGB*1424	TL070FWV03-B1601A	33.6*170.88	38.2*181.45*3.45	450	3SPI+RGB	IPS
	7.84"	400RGB*1280	TL078HWXH07-B1569A	59.40*190.08	67.80*206.18*4.60	450	LVDS	IPS/CTP
		400RGB*1280	TL078HWXH08-B1599A	59.40*190.08	67.80*206.18*4.60	450	MIPI	IPS/CTP
	8.88"	480RGB*1920	TL088PWW01-H1608B	54.72*218.88	64.50*231.10*4.75	600	MIPI	IPS/CTP
	12.3"	1920RGB*720	TL123HDH01-K1702A	292.03*109.51	302.59*123.57*6.53	750	LVDS	IPS

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