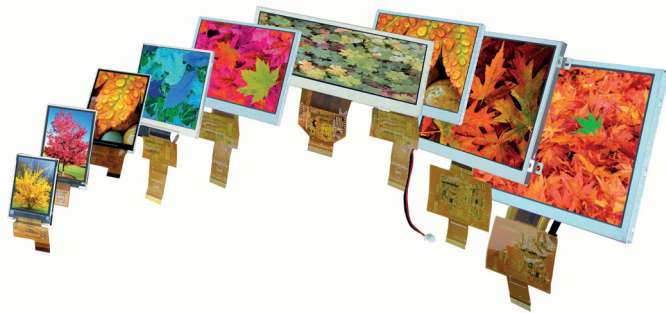


Brilliant IPS Displays for industrial applications

- Excellent Contrast
- Wide viewing angle up to 160° all around
- No color-shift, no greyscale effect
- RGB, DPI, LVDS, 16-Bit Bus, SPI interface
- Smaller sizes from 0.96" to 10.1"
- Resolution from 80x160 to 1280x800 dots
- Superbright 500 ~ 1000 cd/m²



Brilliant IPS Displays Excellent Contrast



With and without touchpanel

Are you looking for a high-quality display with or without touch panel? DISPLAY VISIONS offers a wide range of sizes in different designs. The IPS technology supports an extremely wide viewing angle without colour shift and without the otherwise typical inverse effect. Our displays offer brightness levels of up to 1,000cd/m² which definitely make them suitable for outdoor use, even with direct sunlight. A matching ZIFF connector is available as an accessory. The displays have been especially developed for industrial applications and are available on a long-term basis.

The service life is at least 50,000 hours and the operating temperature range extends to a wide -20 to +70°C. For the backlighting, bright and high-quality LEDs are used.

24-Bit RGB/DPI, LVDS, SPI, 16-Bit Bus

There are several interfaces available like a parallel RGB interface for a colour depth of up to 24 bits. Larger displays with 7" and 10.1" providing LVDS. Smaller ones are equipped with SPI interface and 16-bit data bus interface for µC.

Touchpanel

Optionally, these displays are also available with an integrated touch panel. Technology is projective capacitive (PCAP) which recognizes one or more fingers simultaneously. Even the lightest touch or gesture is recognized and passed on. On-board is a controller that takes over the evaluation and provides simple x/y data. The connection is I²C bus interface, while the frontal surface is made of glass - clear and glossy. It's robust against scratching and chemicals and easy to clean anyway. All these IPS displays are standard products and available even in small quantities, normally ex stock.

Operating temperature range -20..+70°C

The new IPS displays provide full readability at whole temperature range:

- * perfect functionality down to -20°C
- * full and stable contrast even at -20°C
- * extremely fast response time: 30ms @20°C
- * no contrast adjustment necessary
- * no limitation in viewing angle

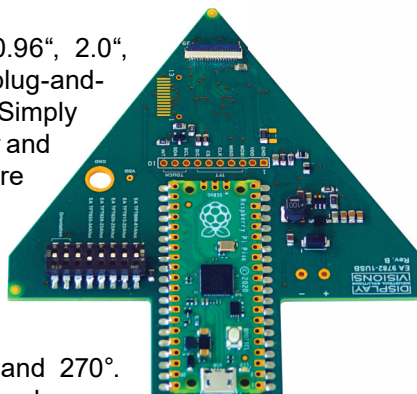
Permanent operation

The new IPS displays from DISPLAY VISIONS are suitable for industrial applications. 50,000 hours for standard operation is defined. There's no burn-in effect even at the maximum operating temperature of +70°C (lifetime end definition is half brightness of backlight).

IPS Displays				
Part number	Size	Resolution	Dimension	optionally Touch
EA TFT009-81AI	0.96"	160x80	27.9 x 13.5 x 1.5	PCAP
EA TFT015-22AI	1.5"	240x240	32.0 x 35.0 x 3.1	PCAP
EA TFT020-23AI	2"	320x240	36.0 x 52.0 x 2.2	PCAP
EA TFT028-23AI	2.8"	320x240	48.0 x 68.0 x 2.2	PCAP
EA TFT035-34AI	3.5"	480x320	54.7 x 82.9 x 2.2	PCAP
EA R480X-43A	4.3"	480x272	105.5 x 67.2 x 3.0	PCAP
EA W800X-50AI	5"	800x480	120.7 x 75.8 x 2.8	accessory
EA R1024X-70B	7"	1024x600	165.0 x 100 x 5.7	PCAP
EA W1280X-101A	10.1"	1280x800	235.0x161.0x13.1	accessory

USB Test Board

For the smaller displays 0.96", 2.0", 2.8" and 3.5" there is a plug-and-play demo board available. Simply connect to any USB charger and internal demo pictures are shown. Together with the Windows tool „startTFT.exe" more and individual pictures can be shown and orientation can be changed to 0°, 90°, 180° and 270°. LED brightness is adjustable also.



Adaptor Board

For larger IPS displays there's an adaptor board EA 9980-TFT available, providing 2.54mm pin header, power supply for backlight and touch panel interface. Equipped with 50 pin-ZIF connector with 0.5mm pitch.

