

# IPS



## - Excellent Viewing Angle and High Contrast


IPS-panel (In-Plane Switching) is a panel-technology which originally was a result of improving another well-known panel-technology, the TN-panel (Twisted Nematic). Due to the molecule-structure of the TN-panel, one of the downsides of this technology is the well-known limited viewing-angle in particularly one angle showing colour-inversion.

This shift in colour and contrast is related to how light is guided through the panel. In the IPS-panel, the molecule-structure is organised differently as they are parallel to the glass of the panel. As a result of this, the viewing angle is much more uniform, there is practically no colour-inversion and the contrast improved.

For many years TN-based TFT display panels dominated the industrial display market, and the technology still hold a good market share. However, there has been a shift in the market trend towards IPS based TFT displays, with symmetric viewing angles and high contrast, driven by the consumer market.

We have a various of standard sizes in our IPS Family and we are committed to provide high quality displays with long term support and competitive pricing. Should you have a need for special specifications for your project, we offer the possibility of full customized solution.

Ideally suited for various applications, from portable hand-held to industrial HMI. These displays can meet your demands of reliable operation and long longevity product support.

A background image showing numerous small, conical piles of brightly colored powders in various colors including red, blue, green, yellow, orange, and purple, arranged in rows.

Operators from all industrial levels often prefer these displays, due to the easy and reliable read out from all viewing angles. They also allow for more accurate colour reproduction - consistent colour.

Available in standard sizes  
2.0" + 2.4" + 2.8" + 3.5" + 4.3" + 5.0"  
+ 7.0" + 8.0" + 10.1" + 10.4" + 12.1".

**Emerging Display Technologies Corp**  
**[www.edtc.com](http://www.edtc.com)**



2.0" IPS TFT	
Resolution	240 x 320
Part Number	ET020013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

2.8" IPS TFT	
Resolution	240 x 320
Part Number	ET028013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

3.9" MVA TFT	
Resolution	480 x 128
Part Number	ET039000DMA
Brightness	550 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

4.3" IPS TFT	
Resolution	480 x 272
Part Number	ET043013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

7.0" IPS TFT	
Resolution	1024 x 600
Part Number	ET070016DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

7.0" IPS TFT	
Resolution	800 x 480
Part Number	ET070018DMA
Brightness	500 nits
Temp. Range:	Op. -30°C~+85°C St. -30°C~+85°C

8.0" IPS TFT	
Resolution	1024 x 768
Part Number	ET080013DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+75°C

10.1" IPS TFT	
Resolution	1280 x 800
Part Number	ET101006DBA ET101007DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

12.1" MVA TFT	
Resolution	1280 x 800
Part Number	ET121001DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+80°C St. -20°C~+80°C



2.4" IPS TFT	
Resolution	240 x 320
Part Number	ET024013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

3.5" IPS TFT	
Resolution	320 x 240
Part Number	ET035013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

4.3" IPS TFT	
Resolution	800 x 480
Part Number	ET043011DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

5.0" IPS TFT	
Resolution	800 x 480
Part Number	ET050013DMA
Brightness	500 nits
Temp. Range:	Top -20°C~+70°C Tsp -30°C~+80°C

7.0" IPS TFT	
Resolution	1024 x 600
Part Number	ET070016DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+85°C

7.0" IPS TFT	
Resolution	800 x 480
Part Number	ET070018DBA
Brightness	1000 nits
Temp. Range:	Op. -30°C~+85°C St. -30°C~+85°C

10.1" IPS TFT	
Resolution	1280 x 800
Part Number	ET101006DMA ET101007DMA
Brightness	450 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

10.4" IPS TFT	
Resolution	1024 x 768
Part Number	ET104007DSA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

You can also get our Smart Embedded solution with IPS technology.



www.smartembeddeddisplay.com

