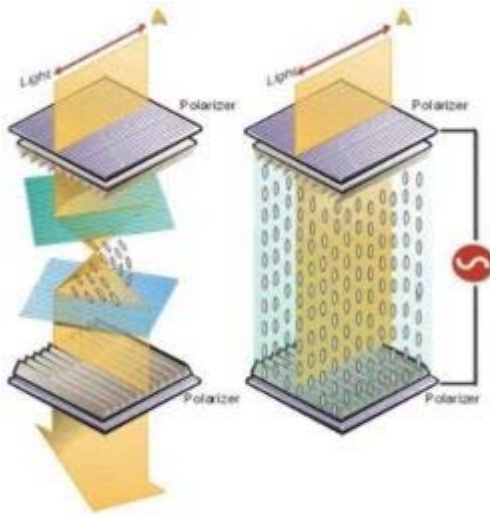




TN



TN – Twisted Nematic. A type of liquid crystal where the alignment surface and therefore the LC molecules are oriented 90° from each surface of glass. Produces images in two modes: Positive and Negative. Positive Mode provides white background with black segments. Negative Mode provides black background and white segments.

When two polarizing filters are arranged along perpendicular axes, as in the first illustration, light passes through the lead filter and follows the helix arrangement of the liquid crystal molecules. The light is twisted 90 degrees, thus allowing it to pass through the lower filter. When voltage is applied, however, the liquid crystal molecules straighten out of their helix pattern. Light is blocked by lower filter and the screen appears black because of there being no twisting effect.

FEATURES:

- Most Cost Effective
- Widest Temperature Range
- Backgrounds: Black, White
- Viewing Angle: 45 degrees (typical)
 - Multiplex Ratio: up to 64:1
- Response Time: 150 msec at 4.7 V and 64 Hz

The multiplex rate is equal to the number of rows that can be displayed simultaneously. For example, a display with a multiplex rate of 16 can display 16 rows of information simultaneously

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