

## **DISPLAYS** The image on a display is made of thousands of tiny illuminated dots called pixels. The resolution of a display is the number of pixels in it. The quality of the image depends on the resolution of the display. Displays produce either monochrome or color images • Monochrome images have two colors: one foreground color and one background color • Color displays produce images by combining the 3 primary colors: red, green and blue Previously, the most used form of display was cathode ray tube (CRT) display. A CRT consists of a sealed glass tube with a fluorescent coating of phosphor dots applied to the inside. Colors are created by mixing various shades of red, green and bue. They produces flickering images which can strain our eyes. CRTs have been replaced by flatpanel displays. Flat-panels are comparatively thinner, lighter and use less energy. Their images are brighter and have higher Displays can be portrait or landscape: **DISPLAYS** Flat-panel Portrait displays are square-shaped and offer more height. Landscape displays are rectangular and offer more width. displays Flat-panels are easily damaged if they are dropped. They also suffer from 'dead pixels'. Liquid crystal Light-emitting Made up of red, green and blue colored pixels arranged togethe in tiny blocks. A back light made of cold cathode fluorescent lamps shines behind the pixels. This is a more advanced version of the LCD. And LED is back lit with light emitting diodes. LEDs provide brighter light and are smaller and thinner than LCDs. The image is also visible over a wider viewing angle. display (LCD) diode (LED) Color is created by illuminating sufficient red, green and blue pixels to get the desired shade.

However, LEDs are less energy efficient than LCDs.

LCDs are thin and don't use a lot

of energy, they do not harm our eyes are they don't produce glare.





