Pixel Structure of General LCD
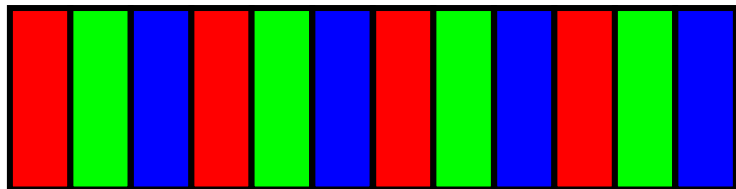
RGB Vertical Striped Structure

One Pixel

3D Display

for Right Eye   for Left Eye   for Right Eye   for Left Eye
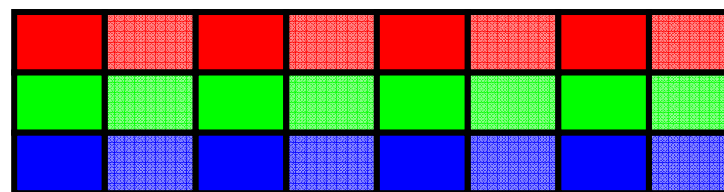

One Pixel
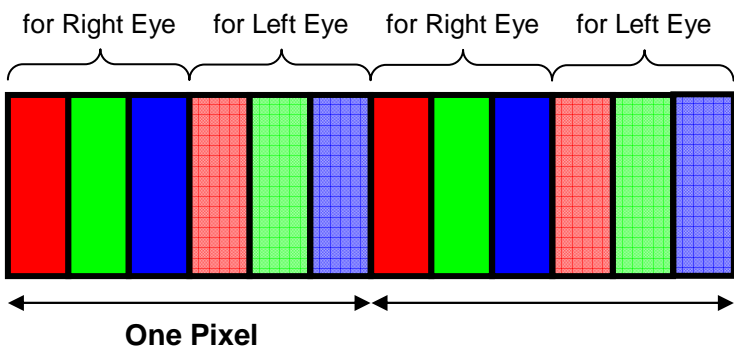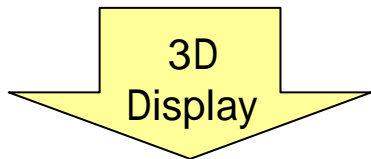
- Horizontal resolution becomes halved on the 3D displays with conventional pixel structure because 3D displays require 2 pixels of 2D display.

Pixel Structure of HDDP

RGB Horizontal Striped Structure

| for Right Eye | for Left Eye | for Right Eye | for Left Eye | for Right Eye | for Left Eye | For Right Eye | For Left Eye |

One Pixel

- HDDP composed of a horizontally striped RGB structure is split in half lengthwise and enables 3D display without reduced resolution.
- When the same information is displayed for pixels reaching the right eye and the left eye, the image is displayed in 2D. When different information for both the right eye and the left eye are displayed, then the image is displayed in 3D.

[Display Example]

3D display for images

2D display for text