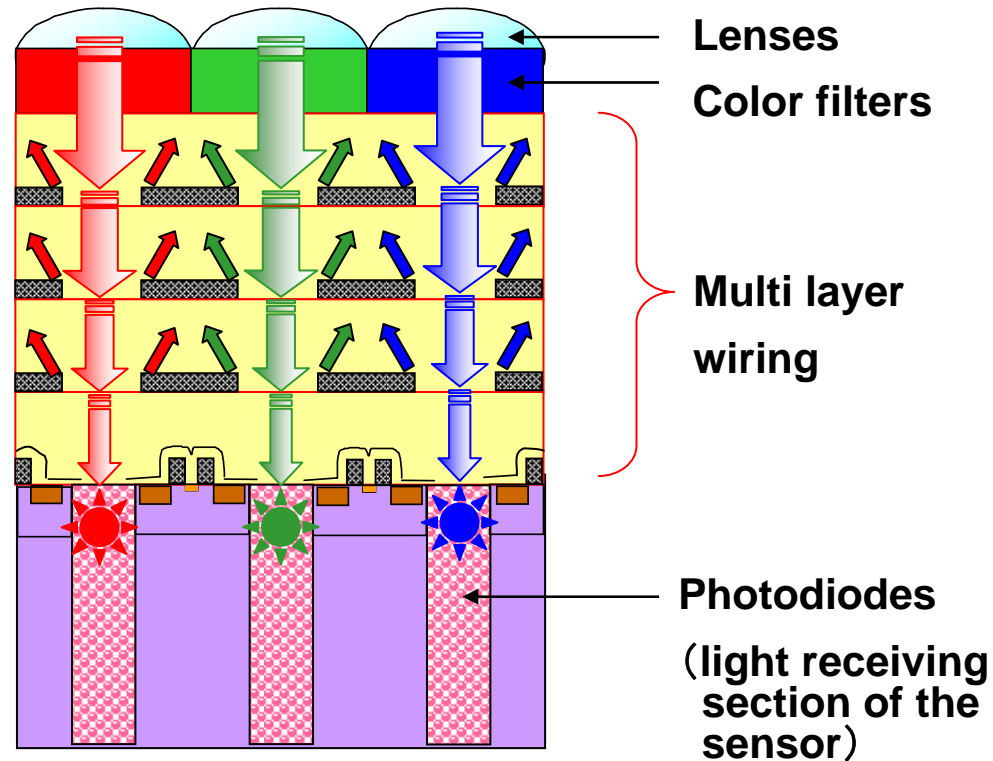
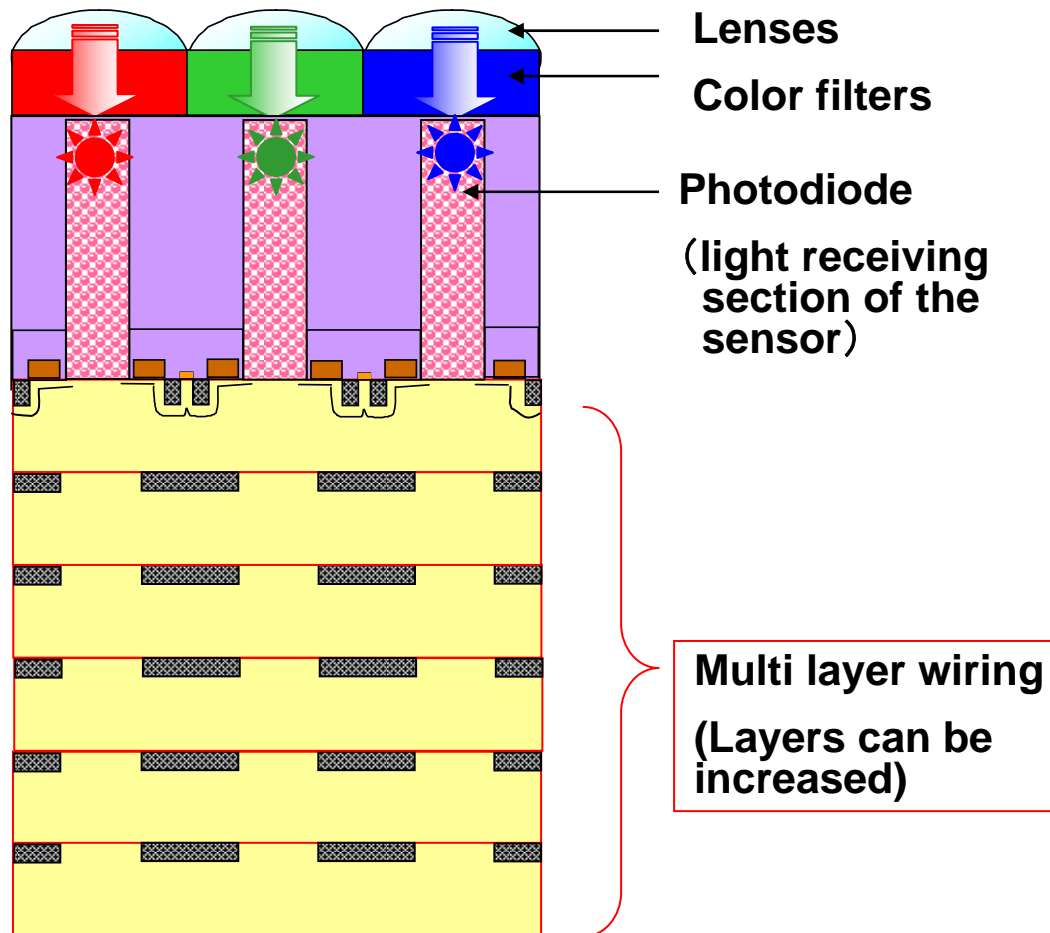


Conventional structure: FSI type (Front Side Illumination)



Lenses are formed on top of the sensor, with wiring between them and the light receiving section and photodiodes. Light entering the sensor obliquely is blocked by the wires, which also reflect back some to the light that enters at right angles, degrading overall light sensitivity.

This structure: BSI type (Back-side Illumination)



The lenses are attached to the back side of a substrate with a planed surface, and deliver light directly to the photodiodes. With no interference from wiring, light sensitivity and overall performance are boosted.