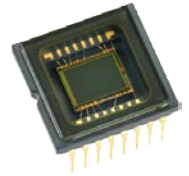


1/3-type Color Interlace CCD Area Sensor with 520k(960H) Pixels for NTSC
High Sensitivity including near-infrared light region



Description

The RJ2331CA0PB is a 1/3-type(6.0mm) solid-state image sensor that consists of PN photo-diodes and CCDs(charge-coupled devices) with approximately 520Kpixels (horizontal 1020 × vertical 507). The sensor provides a stable high-resolution color image and high sensitivity including near-infrared region.

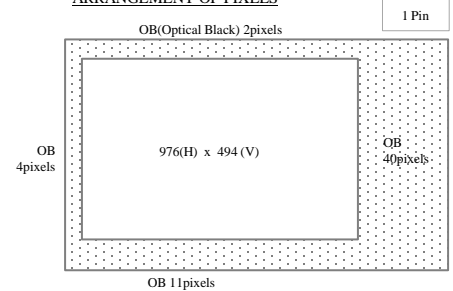
Applications

- Cameras
(Security cameras, Camcorders, Industrial monitor cameras, etc)
- Pattern recognition

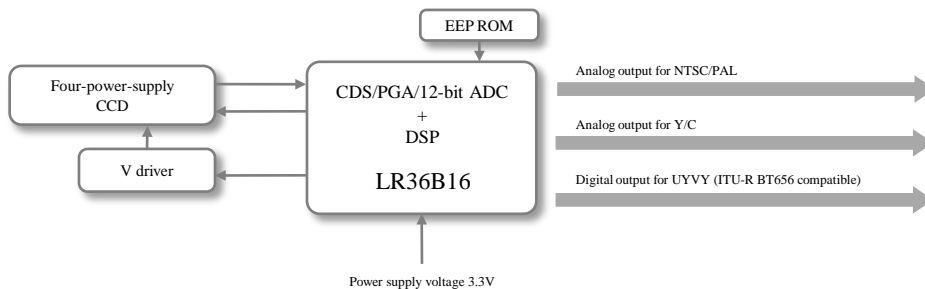
Features

- Number of image pixels 976H × 494V
- Sensitivity 2600mV @F4 1000lx with a 90% reflector
- NIR sensitivity 1.9 time compared with the RJ2331BA0PB @ λ=900nm
- Smear ratio -125dB
- Color filter Mg/G/Cy/Ye
- Supply Voltages +15V/+3.3V/-8V
- Ambient operating temperature -30 °C to +85 °C
- Package 16pinDIP(plastic)
- Reflow RJ2331CA0LT with reflowable package

ARRANGEMENT OF PIXELS



System Configuration



"iSHCCD II" and "iSHartina" are the trademarks of Sharp Corporation.

The "iSHCCD II" is an advanced CCD image sensor that drastically improves light efficiency by including nearinfrared light region as a basic structure of "iSHCCD".

The "iSHartina" series is a key device group of Sharp which realizes a next-generation sensing world.

The circuit diagram and others included in this specifications are intended for use to explain typical application examples. Therefore, we take no responsibility for any problem as may occur due to the use of the included circuit and for any problem with industrial proprietary rights or other rights.