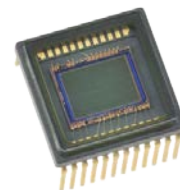


1/3-type Color Progressive Scan CCD Area Sensor with 1.3M Pixels
High Speed (30frames/s @45MHz) and High Sensitivity including near-infrared light region



Description

The RJ33J3CA0DT is a 1/3-type(6.0mm) solid-state image sensor that consists of PN photo-diodes and CCDs(charge-coupled devices) with approximately 1.3M pixels.

The sensor provides a stable high-resolution color image and high speed (30frames/s @45MHz) and high sensitivity including near-infrared light region.

Applications

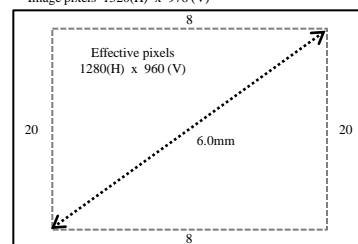
- Cameras
(Security cameras, Camcorders, Industrial monitor cameras, etc)
- Pattern recognition

Features

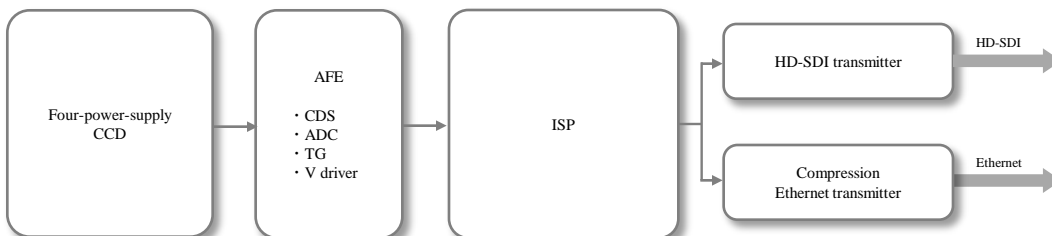
- | | |
|---------------------------------|---|
| • Number of image pixels | 1320H × 976V |
| • Sensitivity | 950mV @F4 1000lx with a 90% reflector, 1/30s accumulation |
| • NIR sensitivity | 2.0 times compared with the RJ33J3BA0DT @ λ=900nm |
| • Smear ratio | -120dB |
| • Frame rate | 1.3M 30frames/s @45MHz, 720p 30frames/s @36MHz |
| • Color filter | R/G/B |
| • Supply Voltages | +13.5V/+3.3V/-6.5V |
| • Ambient operating temperature | -30 °C to +85 °C |
| • Package | 24pinDIP(plastic) |
| • Reflow | RJ33J3CA0LT with reflowable package |

ARRANGEMENT OF PIXELS

Image pixels 1320(H) x 976 (V)



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 near-infrared 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.

Sharp reserves the right to change products and specifications without prior notice.

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.