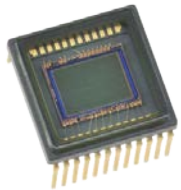
SHARP

RJ33J3CA0DT

iSHCCD Ⅱ™ in iSHartina™

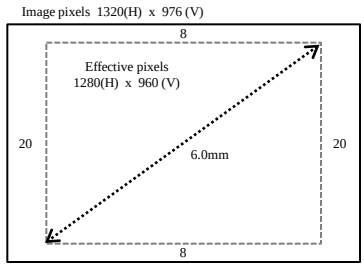
1/3-type Color Progressive Scan CCD Area Sensor with 1.3M Pixels
High Speed (30frames/s @45MHz) and High Sensitivity including near-infrared light region



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.

ARRANGEMENT OF PIXELS



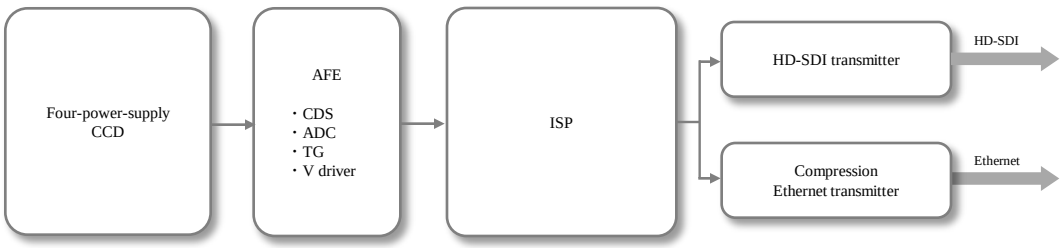
Applications

- 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 ºC to +85 ºC
・ Package	24pinDIP(plastic)
・ Reflow	RJ33J3CA0LT with reflowable package

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.