The RJ31N3AD0DT is a 1/1.8-type (8.98mm) solid-state image sensor that consists of PN photo-diodes and CCDs (charge-coupled devices) with approximately 2M pixels. The sensor provides a stable high-resolution color image and high sensitivity and high efficiency and high speed (50 frames/s @65MHz).

### Applications

- Industrial monitor cameras
- Intelligent Transport System cameras
- Video capturing devices for PCs etc.

### Features

- Number of image pixels: 1644H × 1236V
- Sensitivity: 1100mV @F4 1000lx with a 90% reflector, 1/30s accumulation
- Smear ratio: -120dB
- Frame rate: 50 frames/s @65MHz
- Signal Output: 2ch
- Color filter: R/G/B
- Supply Voltages: +13.5V/+3.3V/-6.5V
- Ambient operating temperature: -30 °C to +85 °C
- Package: 28pinDIP(plastic)

### System Configuration

```
CCD

AFE
  • CDS
  • ADC
  • TG
  • V driver

ISP

HD-SDI transmitter
  • Compression
  • Ethernet transmitter

HD-SDI

Ethernet
```

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