**RJ31N4ED0DT**

1/2-type B/W Progressive Scan CCD Area Sensor with 2M Pixels (2ch)(16:9)  
High Speed and High Sensitivity including near-infrared light region (50frames/s @65MHz)

### Description

The RJ31N4ED0DT is a 1/2-type(8.04mm) 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 B/W image and high sensitivity and high efficiency and high speed (50frames/s @65MHz).

### Applications

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

### Features

- Number of image pixels: 1928H x 1088V
- Sensitivity: 1150mV @F4 1000lx with a 90% reflector, 1/30s accumulation
- Smear ratio: -115dB
- Frame rate: 50frames/s @65MHz
- Signal Output: 2ch
- Color filter: B/W
- Supply Voltages: +13.5V/+3.3V/-6.5V
- Ambient operating temperature: -30 ºC to +85 ºC
- Package: 28pinDIP(plastic)

### System Configuration

```
<table>
<thead>
<tr>
<th>AFE</th>
<th>CCD</th>
<th>ISP</th>
<th>HD-SDI transceiver</th>
<th>Ethernet</th>
</tr>
</thead>
<tbody>
<tr>
<td>- CDS</td>
<td>-ADC</td>
<td>-TG</td>
<td>Compression</td>
<td>Ethernet transmitter</td>
</tr>
<tr>
<td>- V'</td>
<td>OUT1</td>
<td>OUT2</td>
<td>HD-SDI</td>
<td></td>
</tr>
</tbody>
</table>
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