DATA SHEET

Part No.	MN34031ALJ
Package Code No.	LGA104-C-120145-IA

Panasonic

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MOS Image Sensor

Overview

This is a MOS-type sensor of 1/3 type offering 1.3 mega pixels. This product consists of embedded photodiode, pixel block by MOS transistor, column AD converter, built-in timing generator (TG), high speed serial output I/F, parallel output I/F, and functional circuits of various kinds. High definition 12-bit digital image signals offering 1.3 mega pixels are obtained with high speed of 60 fps and with low power consumption.

Features

: Progressive scan
: 1/3 type (inch)
: $1280 (H) \times 1024 (V) = 1,310,720 (pixel)$
: $1376 (H) \times 1070 (V) = 1,472,320 (pixel)$
: $3.75 (H) \mu m \times 3.75 (V) \mu m$
: 7.7 (H) mm \times 6.1 (V) mm
: 104 pins (including pins of "N.C.")
: $4.800 (H) mm \times 3.840 (V) mm$
: There is no color filter
: 3.3 V / 1.8 V / 1.2 V
: 27 MHz
: 12-bit
: Serial output : 486 Mbps fixed (subLVDS DDR method), 2-ch/2-port output, 16-bit format
: 3-lines serial I/F (Clock frequency: Max. 30 MHz)
: 60 fps
: At 60 fps : 1/60 s to 1/67500 s (1/67500s step)
: 0 dB to 18 dB / 0 dB to 24 dB
: Full scan mode: 1.3 mega pixel
Long exposure mode output

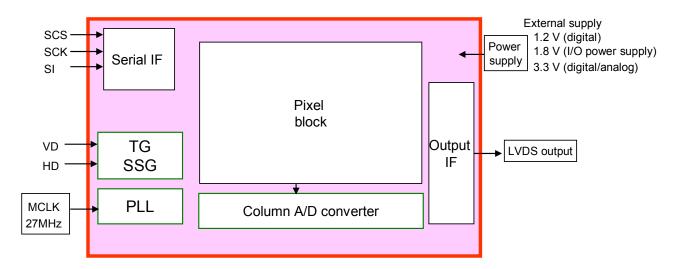
Note) *1: Apply mirror and flip function in DSP

Applications

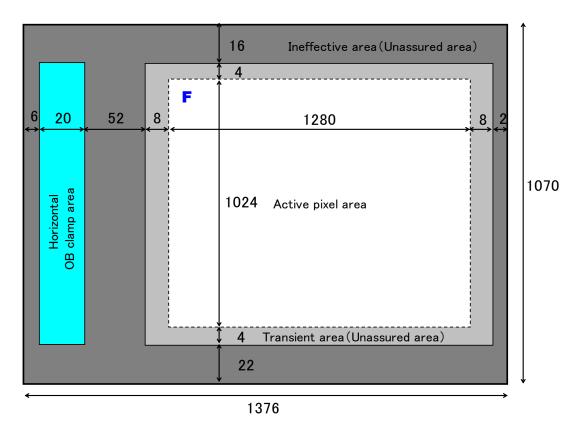
- IP camera (Network camera)
- Monitoring camera

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Block Diagram

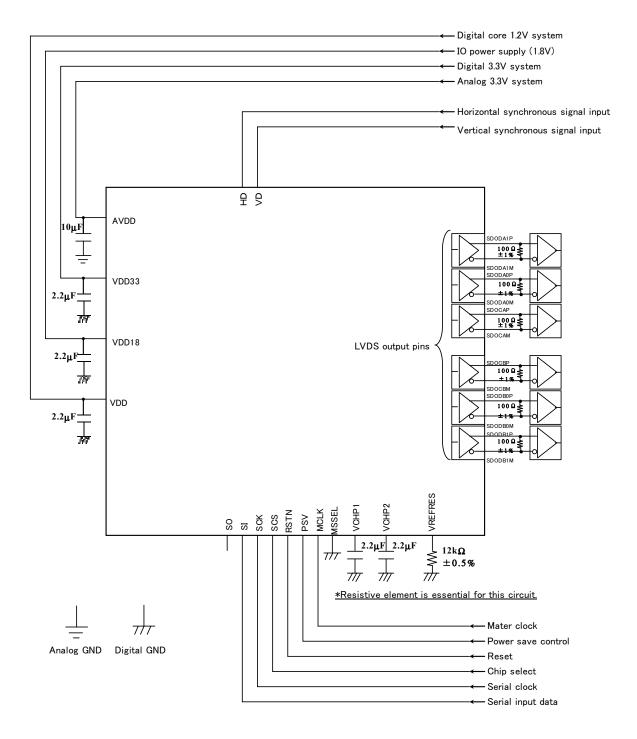


Pixel Array Format



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Circuit Example for Reference



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