

# LI7080SA

32.8mm Diagonal 10.8MP CMOS Sensor on 170pin LCC with 6.4μm Square Pixels at 120fps

## DESCRIPTION

LI7080SA is a CMOS type solid-state imaging sensor of Super 35mm size, and 6.4 μm square pixel arrangement with 10.8 mega effective pixels.

DCI 4K video shooting at 120 fps is available.

LI7080SA offers low noise and high frame rate at DCI 4K video, making it an ideal image sensor for high-end security cameras or cinema cameras.

## FEATURES

- LI7080SAC: color sensor (RGB on-chip color filter)
- Rolling shutter
- Recording screen size: Greater than Super 35mm (29.0 mm x 15.4 mm)
- Number of effective pixels: 4536 x 2400 (Horizontal x Vertical)
- Pixel size: 6.4 μm x 6.4 μm
- Number of output channels: Data 30 lanes, Clock 2 lanes
- Output format: LVDS output, 840 Mbps @14bit
- Main clock frequency: 60 MHz (recommended)
- All pixel readout: 120 fps
- Analog gain: -6dB, 0dB, 6dB, 12dB, 18dB and 24dB
- Serial communication
- Saturation: 82,000 e (Typ.) @120fps
- Sensitivity : 85,000 e/lx/sec (Typ.)
- Dark Random Noise: 2.2 erms (Typ.) @18dB
- Dark Current: 33 e/sec (Typ.) @60°C (package reverse side), 18dB
- Power consumption: 2.3 W (Typ.) @120fps
- Power supply voltage: 3.5V, 3.3 V, 1.8V, -1.2V, 2.62V, 2.5V, 1.6V
- 170 pin ceramic LCC
- Package size: 46.00 mm x 38.00 mm x 3.58 mm

## FUNCTIONAL BLOCK DIAGRAM

