LI7060SA

7.75mm Diagonal 2.82MP High Sensitivity FHD CMOS Sensor on PKG with 3.2µm Square Pixels at 60fps

DESCRIPTION

The LI7060SA is a 1/2.3 inch size (diagonal 7.75 mm) color CMOS solid-state image sensor with 2.82M effective pixels in a square pixel array.

This sensor is capable of full area readout at 60 fps and realizes high dynamic range movie recording.

*The designators “TBD” show these items contain temporary values to the preliminary version.

FEATURES

- LI7060SAC: Color sensor
- Rolling shutter
- Recording screen size: 6.20 mm x 4.66 mm
- Number of effective pixels: 1936 x 1456 (Horizontal x Vertical)
- Pixel size: 3.2 µm x 3.2 µm
- Number of output channels: Data 4 lanes, Clock 1 lane
- Output format: 576 Mbps in MIPI-CSI2 output 60 fps @12 bit (RAW12)
- Main clock frequency: 24MHz (recommended)
- Full area readout: 60fps
- Selectable region of interest feature
- Analog gains 0 dB, 6 dB
- Serial communication
- High sensitivity
- Sensitivity (Green) : 22,000 e/lx/sec (TBD)
- Saturation : 21,000 e (TBD)
- Dark random noise : 2.3e rms @room temperature (TBD)
- Dark current : 17 e/sec @60°C (package reverse side) (TBD)
- Power consumption: 320 mW (Typ.) @Full area readout at 60 fps (TBD)
- Power supply voltages: 3.3V, 1.8V, 1.2V
- 94 pin ceramic LGA
- Package size: 15.07 mm x 13.37 mm x 2.74 mm

FUNCTIONAL BLOCK DIAGRAM