LIS770i
High Performance Line-Scan Image Sensor

Brief Description

The LIS-770i linear image sensor is a high performance, ultra low power, low cost sensor, designed to meet the demanding needs for small cost effective touch screen, decoding, position detection and feedback, OCR, and other applications.

All that is needed to achieve video is a single low voltage power supply, a clock, and up to three control signals.

The LIS-770i sensor consists of a row of 784 pixels including 770 optical pixels, 13 reference dark pixels, and 1 dummy pixel. The pixel size is selectable from 7.8x62.5µm to 7.8x312.5µm. The whole imaging active area is 312.5µm x 6006µm.

LIS-770i has a binning mode to make the 770 7.8 µm wide pixels behave like 335 pixels that are 15.6µm wide.

Optical black signal is clamping by reference internal optical black pixels to reduce chip wide offset errors, charge injection and dark current. LIS-770i has on chip Fixed Pattern Noise (FPN) cancellation.

Key Features

- Selectable pixel height 62.5, 125, 187.5, 250, & 312.5 µm
- Programmable x1, x2.5, x4, & x5 gain.
- Binning mode allows the 770 7.8 µm wide pixels behave like 335 pixels that are 15.6µm wide.
- Imaging active Area: 312.5 µm x 6006 µm
- High sensitivity
- Single power supply operation, 2.8 Volt to 3.3 Volt
- Low cost compared to CCD multi-chip systems
- Simple operation: one clock and up to three control signals
- On chip Fixed Pattern Noise (FPN) cancellation
- Clamping optically black pixels to reference to reduce chip wide offset errors, charge injection and dark current
- Control signal for reset of shift register, pixels, integration period and start of readout
- Pb free package
- Power down mode
- Semi-custom options available
- Visit www.dynamax-imaging.com for full details

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The device is offered as Known Good Die (KGD) on wafer,
Other packages of LIS-770i-G, LIS-770i-WP are also available

APPLICATIONS
- Optical Touch Screen
- Barcode
- Machine Vision
- Edge Detection
- Contact Imaging
- Finger Printing
- Encoding and Positioning

Pixel Array Configuration & Orientation

Please address all inquiries and purchase orders to:
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