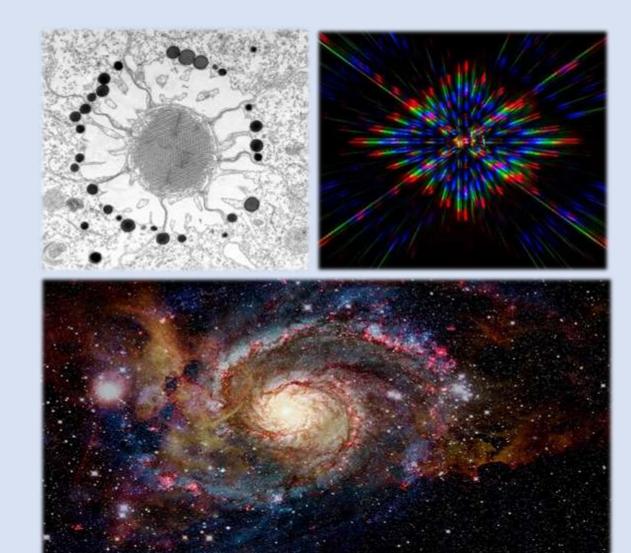


CMOS Image Sensors

Standard products



ISDI is an innovator in the field of high performance CMOS imaging semiconductors, offering custom sensor designs as well as standard products.

The product range covers one-off designs to high volume manufacturing.

ISDI was formed in 2010 by a group of semiconductor designers with deep knowledge and experience in CMOS image sensors, gained through projects in the scientific and research sectors. Since inception, ISDI has evolved from a designer of scientific sensors to a manufacturer of wafer scale imaging devices for a wide range of applications.

Sensors are delivered in a format suitable for board-to-board or board-to-cable connection to a data acquisition PCB. Digital interfaces are designed for direct connection to an FPGA or ASIC.

For $50\mu m$ and $100~\mu m$ sensors, development boards are available with Camera Link, USB or GigEVision connection, for quick evaluation of sensor performance. These are also available as reference designs for rapid prototyping of imaging system hardware.

All sensors are designed for low noise operation in an X-ray environment and are suitable for fibre optic plate (FOP) bonding or direct scintillator deposition.

Aunion Tech Co.,Ltd

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CMOS Image Sensor Product Range

A versatile, feature-rich range of wafer-scale image sensors incorporating ISDI's patented radiation-hard low noise pixel architecture.

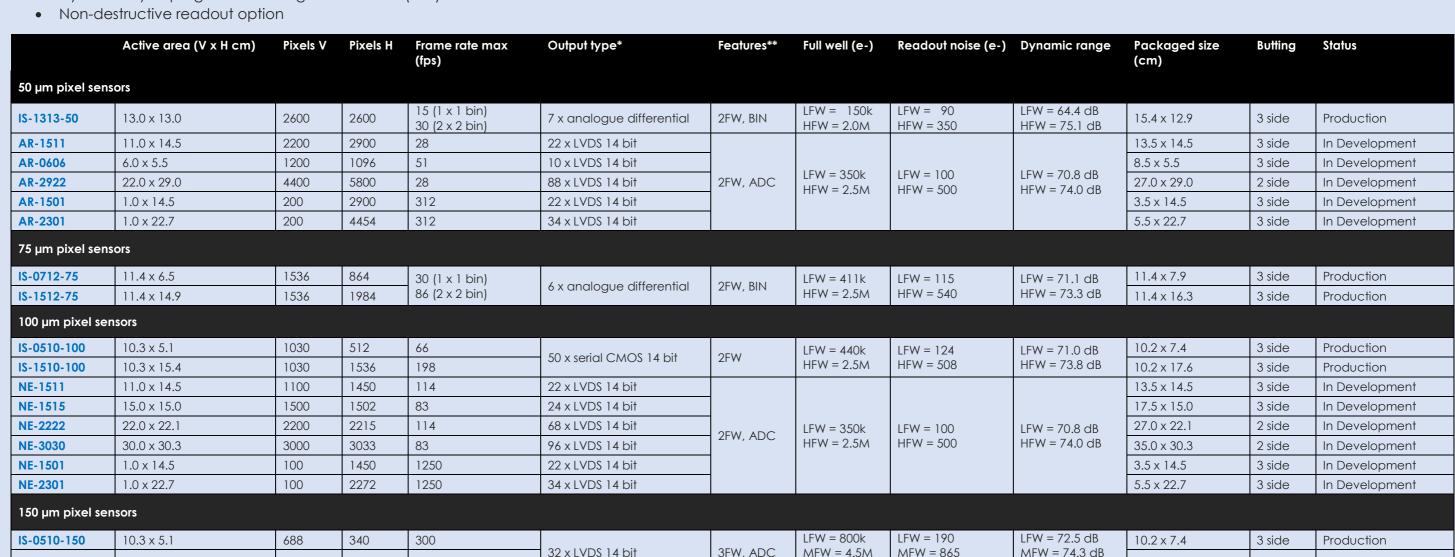
Sensors may be butted to create a larger contiguous image area.

Common features:

IS-1510-150

10.3 x 15.3

- Rolling shutter exposure
- Switchable high and low full well (HFW, LFW) for high and low sensitivity applications
- On chip temperature sensor
- Dynamically re-programmable region of interest (ROI)



^{*} All ADCs are configurable for 12 - 16 bits. Frame rates apply to 14 bit operation

688

1020

100



10.2 x 17.6

HFW = 74.5 dB

HFW = 3970

HFW = 21M

3 side

Production

^{**} Features key: 2FW = 2 full well modes, 3FW = 3 full well modes, BIN = 1x1 and 2x2 binning modes, ADC = per-column A-D converters, All of the above sensors are available in custom formats.