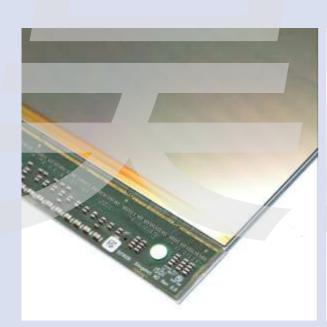
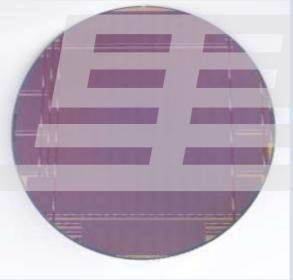


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CMOS Image Sensors

Standard products

ISDI is an innovator in the field of high performance CMOS image sensors, 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.

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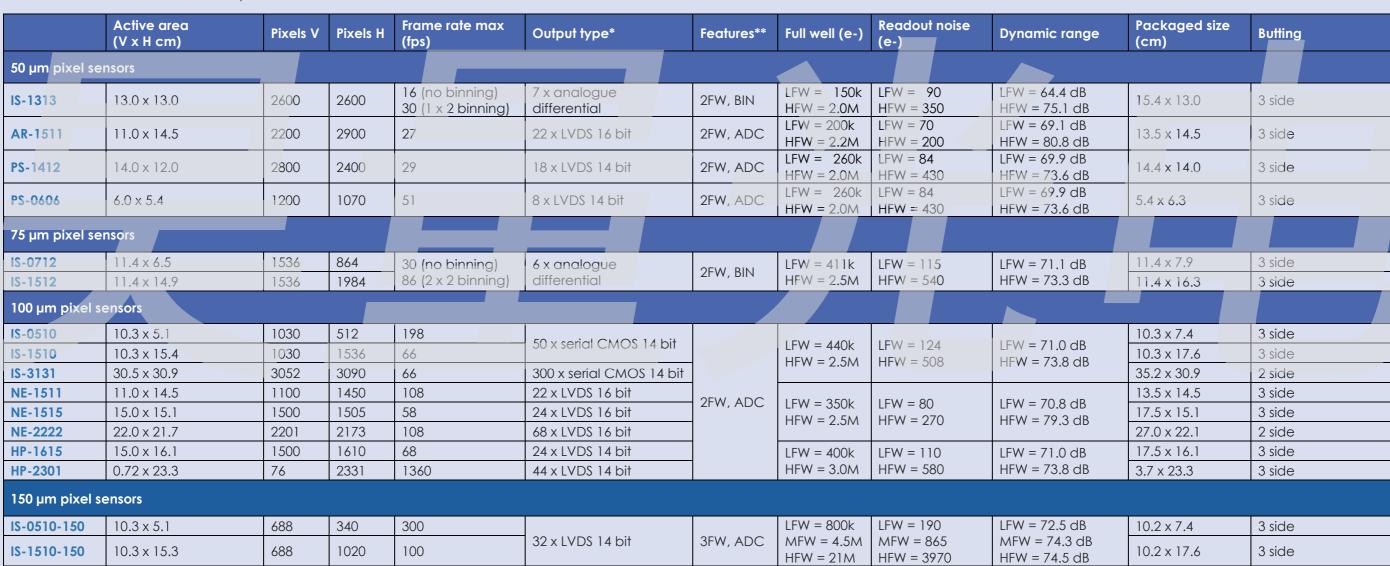
CMOS Image Sensor Product Range

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.

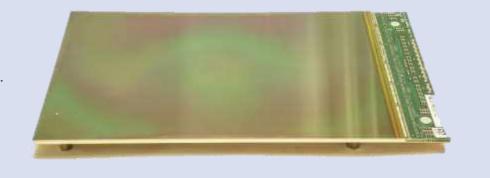
Common features:

- 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)
- Non-destructive readout option



^{*} NE- series sensors can be configured for 16-bit operation. All frame rates apply to 14-bit operation

All of the above sensors are available in custom formats. All specifications are subject to change through our continuous improvement programme.



^{**} Features key: 2FW = 2 full well modes, 3FW = 3 full well modes, BIN = 1x1 or 2x2 binning modes, ADC = per-column A-D converters,

^{***} Provisional data