

iMiD 2022

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Exhibitor Introduction	<p>ENVISION is a Vision Solution Partner that provides core products and solutions, engineering consulting, and technical support services to the machine vision sector. ENVISION works with leading companies in various fields, including Teledyne DALSA, HuaRay technology, Matrox Imaging, Schneider kreuznach, Qioptiq, Carl Zeiss, Edmund Optics, LMI and GBS.</p> <p>It provides the world's best supply of industrial cameras, smart cameras, frame grabbers, Lens, lighting, development programs, and 3D modules, which are key components of machine vision systems.</p> <p>In addition, to help customers successfully develop their systems, rather than simply delivering good products, we continue to work with manufacturers with the world's best source technology to identify the solutions they need, from planning to joint development and market launch.</p> <p>For more information about ENVISION, visit www.envision.co.kr.</p>	

Exhibit Description

Envision will be introducing total imaging solution and modules for machine vision with demonstration of the imaging module for large surface inspection. The module includes a high-performance line scan camera, high-performance lens, illumination system and autofocus system.

1. High-performance line scan cameras

Envision has been introducing high-performance line scan cameras for large surface inspection. Envision provides up to 32K line scan cameras, color cross-talk free RGB cameras with up to 400kHz high-speed line rate. TDI line scan cameras provide high sensitivity in high-speed scanning applications, while dual/multi-line scan cameras provide an excellent price/performance for various applications.

2. High-performance large format lenses

High-End surface quality inspection requires high-performance large format lenses. The latest line scan cameras come with an 82mm image circle with a 5um pixel pitch. Keeping high contrast over the whole 82mm image circle requires sophisticated optical design and precise mechanical design as well. High precision mechanical tolerance during assembling for such a high performance and large-diameter optical components needs extreme manufacturing capabilities. Envision proudly provides fluent product lines with the world best optic partners.

3. High-speed and high-precision autofocus system

Envision developed autofocus system mainly for FPD market, which we deployed in OLED and MicroLED inspection projects.

Exhibit Product



1. 16K TDI Line Scan Camera



Number of pixels: 16,384 pixels
Number of lines: 192
Line rate: 400 kHz
Pixel size: 5um

2. 5x Lens for Large format

Magnification: 5x
Image circle: 82mm
Focal length: 82mm



3. Autofocus system

Setting precision: <0.5um
Focusing range: 26mm
Scan speed: 400mm/s @5.0x
Max warpage: 20um/50mm @5.0x
Max error 2.5um @5.0x