



Distortion-free Optics for Line Scan Applications

MORITEX SCHOTT: High-Resolution Lens for Long Image Sensors of Line Scan Cameras

Tokyo (Japan) / Mainz (Germany), February 23, 2010 — MORITEX Corporation has developed a new lens for high-definition line scan cameras. “ML-L00502” offers an exact, high-contrast picture display at a screen diagonal of up to 62mm, today’s maximum applicable CCD sensor length. The illumination drop between the center and the periphery of the field of view is less than 20%. The distortion of the optic is less than 0.1%.

Machine vision systems that are based on line scan cameras are increasingly being used for quality inspection as well as sorting procedures. Their main area of application is in semiconductor manufacturing, for quality assurance during the production of solar modules and Liquid Crystal Displays (LCD) as well as printed circuit boards for computers, for instance.

Advanced machine vision systems are also being put to use in telecommunications and information technology, as well as biosciences and laboratory automation. Thereby a high throughput rate can be achieved when line scan cameras with high-resolution image sensors and excellent optics are used.

The latest generation of CCD sensors in line scan cameras reaches a resolution of 12,000 pixels 5µm in size. In order to capitalize on this, lenses like the “ML-L00502” by MORITEX offers an extremely low distortion. This also makes them attractive for high-resolution Matrix sensors.

From the center of the image to the edges, the “ML-L00502” offers an exact, high contrast picture display even with a screen diagonal of up to 62 mm. The diaphragm is adjustable. At an optical magnification of 0,05x the working distance is 1,590 mm, at 0,2x 420 mm.



The “ML-L00502” allows for a very compact design of the machine vision system. To achieve homogenous illumination of the objects to be inspected, MORITEX and SCHOTT also offer high-performance LED and halogen light sources, including fiber optic light guides upon request.

About SCHOTT and MORITEX

The international technology group SCHOTT, based in Mainz, Germany, acquired a majority interest of 70.8% in MORITEX Corporation, Tokyo, in November, 2008 as a result of the tender offer bid. Both companies have been cooperating since June 2007 in order to further extend their position as the world's leading manufacturers for specific types of imaging and lighting solutions.

SCHOTT sees its core purpose as the lasting improvement of living and working conditions. To this end, the company has been developing special materials, components and systems for 125 years. The main areas of focus are the household appliances industry, pharmaceuticals, solar energy, electronics, optics and the automotive industry. The SCHOTT Group is present in close proximity to its customers with production and sales companies in all its major markets. The Group's approximately 17,300 employees generated worldwide sales of approximately 2.2 billion Euros in the fiscal year 2007/2008. The company's technological and economic expertise is closely linked with its social and ecological responsibility. The SCHOTT AG is an affiliate of the Carl-Zeiss-Stiftung (Foundation).

The SCHOTT Lighting and Imaging division offers a broad range of lighting and image transmission solutions especially for customers in the core industries automotive, aviation, medical, machine vision, security technology and architecture. Innovative lighting solutions and combinations of light and image transmission are being developed on the basis of LED technology and fiber optics.

MORITEX develops, manufactures and distributes lighting and imaging solutions and supplies optical components and systems for machine vision and digital imaging. As an established leader in machine vision systems with an impeccable track record of innovation, MORITEX is the only provider that can service all different levels from system design to integrated system solutions.

Number of characters: 2,033 (including empty spaces)

Download link to a ZIP file that contains the photograph in print quality: <http://www.schott-pictures.net/presskit/30723.“ml-l00502”-by-moritex-and-schott>



Photo no. 30723: Lens for high-resolution line scan cameras: "ML-L00502" by MORITEX SCHOTT offers an exact, high-contrast picture display at a screen diagonal of up to 62mm, today's maximum applicable CCD sensor size. The distortion of the optic is less than 0.1%. Source: MORITEX

More press photographs are available for downloading under:

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