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Super resolution machine-vision camera captures details fast

At 29 Mpx, Imperx B6620 cameras capture scenes at near video rates with unparalleled resolution

August 31, 2011, Boca Raton, FL - From high-speed automated inspection of printed circuit boards to rapid 3D mapping of disaster areas, Imperx supports a wide range of high-resolution video-capture applications with two 29-Mpx B6620 cameras. Units are available with either Gigabit Ethernet or Camera Link outputs.

High resolution is important for a wide range of video-capture applications, where large areas need to be viewed in fine detail. Shutter speeds up to 1.25×10^{-5} second freeze even the most rapid motion. Frame rates up to 2.4 fps follow rapidly evolving scenes. Standard F-mount allows inexpensively fitting the cameras to almost any optical-system requirement. The cameras' ability to image at light levels as low as 1 lux ($f/1.4$) allows capturing even dimly lit scenes.

"We developed the B6620 cameras," says Imperx CEO Petko Dinev, "in response to a definite need in the industry for an advanced, super-high-resolution video image capture solution for automated inspection, military reconnaissance, disaster relief, automated vehicle navigation, biomedical research, and many other applications."

The cameras' small size (60 x 60 x 45 mm), light weight (320 gm), wide operating temperature range (-30 - +85 °C), low power consumption (3.6 W at 12 V) and high shock rating (10 g shock at 20-200 Hz, and 70 g sustained acceleration) make it an ideal choice for a wide range of research and testing applications under harsh conditions.

An RS-232 interface allows programming the cameras with up to eight independent areas of interest; 8-, 10-, 12-, or 14-bit output formats; and binning of up to eight pixels horizontally and vertically for variable image resolution under automated control. Programmable long integration time of up to 16 seconds allows imaging static scenes even under extreme low-light conditions.

Two models are available: the IGV-B6620 outputs video over gigabit Ethernet, and the ICL-B6620 over Base Camera Link.

For more information visit the Imperx website at www.imperx.com



About Imperx, Inc.

Imperx, Inc. designs, develops and manufactures advanced imaging products used in the machine vision, medical, defense, surveillance and astronomy markets, and wherever there is a need to capture high-resolution digital color or black/white images for both still and full-rate motion processing. Headquartered in Boca Raton, FL, with distributors nationwide, Imperx has manufacturing facilities that are certified for ISO 9002 compliance. For more information, visit the Imperx, Inc. website at www.imperx.com.

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