

4K camera from XIMEA, 12Mp@130fps over 300 meter cable

XIMEA elevates record of speed and distance with models of cameras based on PCI Express® technology

Munster, August, 2015 – XIMEA brings two models called CB200 and CB120 to Intel's IDF 2015 in San Francisco – a 5K and 4K camera using PCI Express® (PCIe®) interface which deliver 12 and 20Mpixel, crystal clear images at 130 and 33 frames per second respectively over distances as long as 300 meters with the help of fiber-optic cable.

The camera's data and control interface is fully compliant with PCI Express External Cabling Specification and provides bandwidth of 20 Gb/s, which with real data throughput of 1550 MB/s is more than any other interface can compete with.

Such data transfer is needed for these models based on the newest sensors from CMOSIS – CMV12000 and CMV20000. Proven high quality CMOS sensors have Global Shutter and provide 12 bit images at unprecedented speed. Their performance can be even further improved by optional Cooling and speed by server computers with bigger PCIe TLP packet size.

Enhancing the convenience factor – the PCIe® interface that is implemented inside the camera eliminates any need in the framegrabber. Image data are seamlessly delivered and stored right inside the PC memory and are immediately available for processing and encoding by CPU and GPU.

To provide users the ability to synchronize with external equipment or other cameras these models are equipped with opto-isolated inputs and outputs exposed from compact and robust camera body with industrial connector. To slim down the footprint both connectors are placed on the bottom.

This allows the camera housing to measure only incredible 60 x 60 x 38 mm and weigh 175 grams. Additionally, as usual for XIMEA cameras the power consumption is remarkably low at 6 Watt.

Furthermore both models are equipped with an integrated interface that is compatible with Canon EF-mount lens and allows remote control of aperture, focus and image stabilization.

As always free of charge XIMEA SDK/API provides the comfort of choosing from Windows or Linux, Mac OSX and various Machine Vision Libraries including MVTec Halcon, National Instruments Labview, OpenCV, Norpix and others.

Applications include flat panel display and printed circuit board examination, persistent stadium or border security and wide area surveillance, 360 panorama, cinematography, aerial or city mapping.

About XIMEA

Drawing on two decades of experience in the industry, XIMEA offer consists of state-of-the-art cameras with USB 3.0, USB 2.0, PCI Express and FireWire interface as well as X-RAY, Hyperspectral and Thunderbolt™ technology enabled cameras.

For more than 20 years XIMEA has developed, manufactured and sold standard or OEM cameras for machine vision applications in motion control, assembly, robotics, industrial inspection and security, as well as scientific grade cameras for life science and microscopy.

The main distinction is based on extremely robust way the cameras are built while still providing highest speed like for example the USB3 Vision camera line. Learn more about XIMEA at www.ximea.com

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