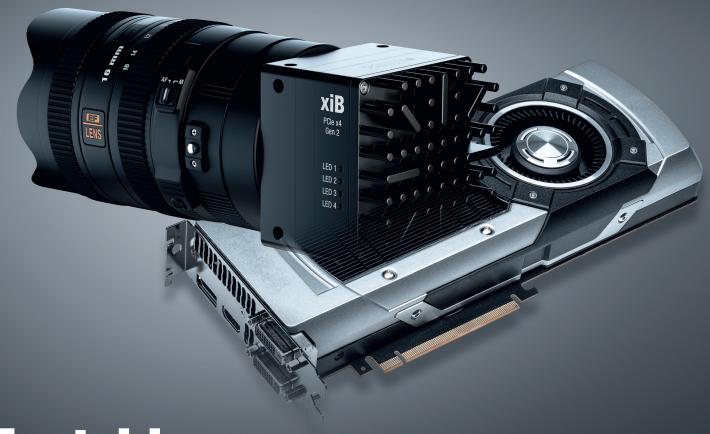
high performance SDK • realtime applications

in partnership with







Fastvideo

Fastvideo - GPU image processing

Fastvideo has designed high performance SDK for image processing on GPU. That SDK corresponds to standard image processing pipeline for camera applications. It covers all image processing stages starting from raw image acquisition from a camera to JPEG compression with storage to RAM or HDD. All image processing is done on GPU and this leads to exceptionally high performance.

Features of Fastvideo SDK for CUDA:

- Image acquisition
- Unpacking module for specific formats of raw data
- Dark Frame Subtraction
- Shading Correction
- Base Color Correction
- Debayers: HQLI and DFPD
- Raw Bayer Compression/Decompression
- Output LUT

- Crop
- Rotate
- Resize (downsampling)
- Sharp
- OpenGL output
- JPEG Codec, MJPEG integration with FFMPEG
- JPEG2000 codec
- H.264 codec

Hardware and Software Requirements:

Operating System	Windows-7/8 (32/64), Linux (32/64)
NVIDIA GPU	Server (Tesla, Quadro), Desktop (GeForce GTX), Laptop (GeForce GT), Mobile (Tegra K1)
CUDA Version	6.0 and 6.5

Performance Issues:

- All image processing is done on GPU
- Performance more than 1 GPix/s on GeForce GTX Titan GPU for full image processing pipeline

Realtime Applications for PC with one GPU:

- JPEG compression for 3 cameras 8-bit, 500 fps, 1280x1024
- Debayer and JPEG compression from 10 USB3.0 cameras, 8-bit, 30 fps, 3 Mpix
- Debayer and JPEG compression from 2 PCI-Express cameras, 12-bit, 30 fps, 20 MPix



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