The MityDSP Stereo Vision Development Kit (SVDK)

CRITICAL LINK

Stereo vision development made simpler.

- Complete framework
- Focus on algorithm development
- Off-the-shelf hardware
- Quick transition to production

If your application requires a custom stereo camera with some up-front processing, the SVDK provides a complete customization-ready framework that gives you access to:

- FPGA for low-level control and processing
- DSP for disparity calculation towards 3D depth
- ARM for communications and user interface

And includes two integrated sensors.

The kit, built in collaboration with TI, leverages algorithms optimized for real-time performance on the OMAP L138 processor. Specifically, the algorithms running on the DSP estimate the disparities between the left and right image pixels and outputs a dense disparity/depth map at frame rate. Starting from this 3-dimensional description of the scene, customers can develop their own depth-based analytics solutions. The SVDK Software Development Kit also provides examples of adding your own custom DSP or FPGA vision algorithms, as well as the development environment to do so.

For those requiring single-sensor only, Critical Link also offers the single camera MityDSP Vision Development Kit.
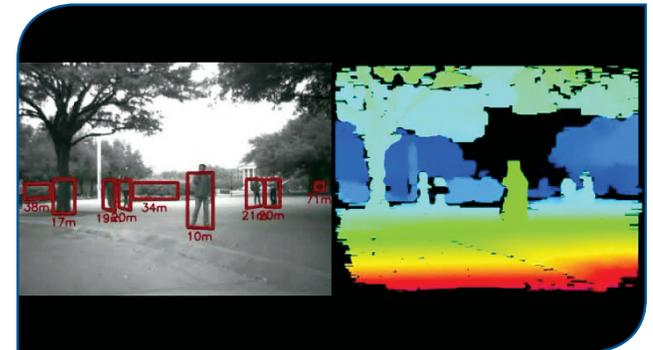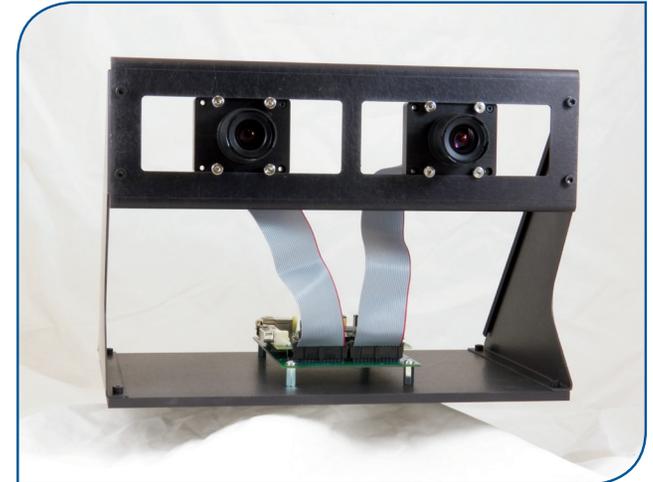
Contact Critical Link for more information on the MityDSP Stereo Vision Development Kit.

Developed in partnership with TI.

TEXAS INSTRUMENTS