

# MULTI-CAMERA CONFIGURATION AND SOFTWARE SYNCHRONIZATION

Easily capture, collect and process data from multi-camera configurations

Virtual Reality • Medical Imaging • Live Holography • 3D Object Recognition/Classification

Multi-camera configurations are being used in applications such as 3D medical imaging, live holography and virtual reality. These camera systems require extensive software synchronization for the large amounts of data being streamed and captured.

PixeLINK®, A Navitar Company, gives customers the ability to synchronize multi-cameras for these new and innovative vision applications. PixeLINK cameras have better software and firmware, are more robust, and don't crash while being used. A complete built-in FPGA executes low level firmware allowing PixeLINK cameras to easily process incoming data flow and simultaneously respond and react to constant changes.

Multi-camera systems stream huge amounts of data and often the computer systems cannot keep up with the quantity of data being captured. High frame rate cameras are subject to frame skipping often related to EMI.

PixeLINK cameras record Metadata (frame data) on each frame capturing information such as frame number, exposure, gain, etc. Having this data allows the customer to reconstruct any skipped frames in order to fully preserve the data stream.

We have the newest CMOS sensors coupled with the most robust USB3 vision standard compliant camera technology in the market. PixeLINK also has the ability to actively align Navitar lenses with our camera sensors to produce precision optical assembly solutions not available from our competitors.

[Contact](#) your PixeLINK representative for more information.

