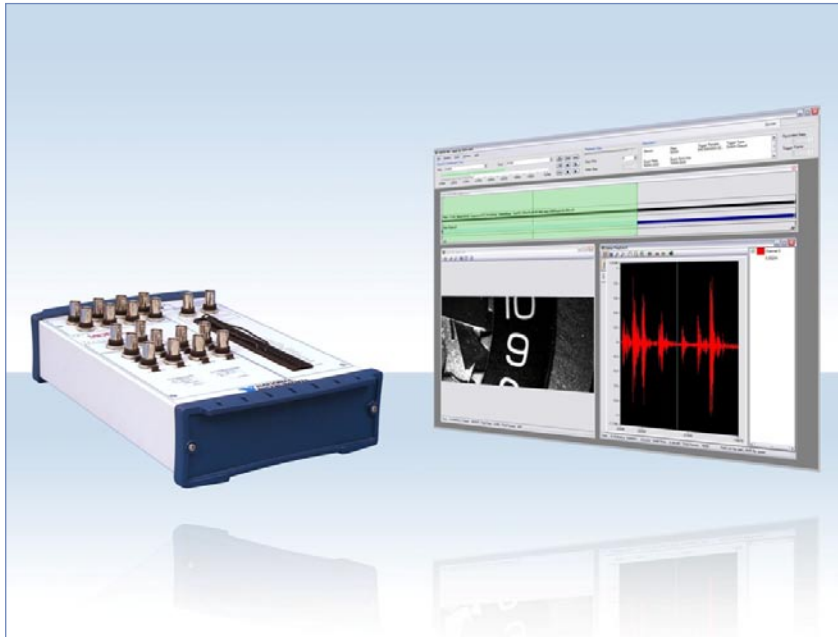


MiDAS DA

Synchronized Data Acquisition System for Highspeed Cameras

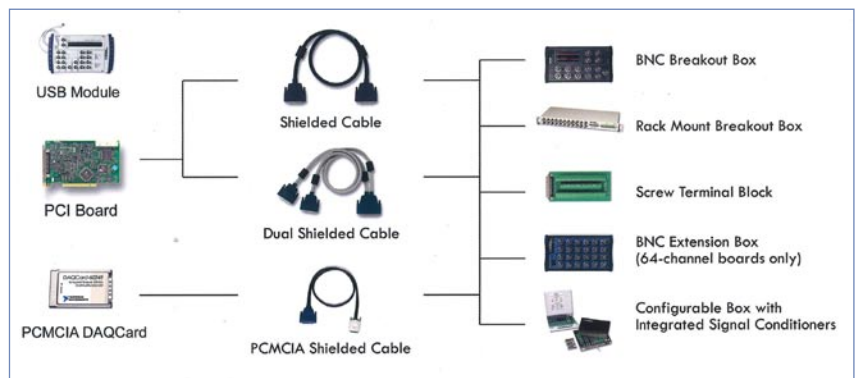


SnapShot

- MiDAS DA enables researchers to combine the visual power of high-speed video with the instrumentation power of data acquisition.
- Continuing the legacy of the MiDAS family of high accuracy
- Highly synchronized video and data acquisition software
- Revolutionary MiDAS Waveform per Frame™ technology
- Variety of sensors: force plates, accelerometers, strain gauges, tachometers and pressure transducers with video

Target Markets

- R&D / Testing
- Maintenance / Field Service
- Machinery Construction
- Production / Packaging
- Biomechanics / Sports



MiDAS Software and National Instruments Hardware

Xcitex is a strategic partner with National Instruments™, the world's largest and foremost supplier of data acquisition hardware and accessories.

Our Partner



MiDAS Data Acquisition

The simple and intuitive MiDAS DA software captures the data directly while simultaneously sending synchronization pulses to the camera, keeping your data and video in perfect alignment. Avoid costly training by using your native camera control software to acquire video. Then simply drag the video onto the MiDAS DA screen. The MiDAS DA Auto-Sync feature will automatically synchronize and display your test results.

The Value of Video and Data

Data is like sound to a movie, adding an entire dimension of information. Data also fills in the gaps: current high-speed cameras capture up to 20,000 frames per second, while data cards easily acquire over a million data points per second on multiple channels. While video provides a visual description of movement, instrumentation data provides more detailed quantitative information of a variety of physical properties. Data sensors can measure attributes that cameras cannot see – air pressure, current, temperature, voltage, strain, torque, etc. Capturing video and data together can yield greater insight into experimental results than video alone.

Available MiDAS DAQ Modules

DAQ Kit 1, PCI, 8/16 channel, 200kSamples/sec, 12-bit
DAQ Kit 2* PCI, 8/16 channel, 250kSamples/sec, 16-bit
DAQ Kit 3 PCI, 8/16 channel, 125MSamples/sec, 12-bit
DAQ Kit 4* PCI, 8/16 channel, 125MSamples/sec, 16-bit
DAQ Kit 5 PCI, 32/64 channel, 125MSamples/sec, 12-bit
DAQ Kit 6* PCI, 32/64 channel, 125MSamples/sec, 16-bit
DAQ Kit 7 PCMCIA, 8/16 channel, 200kSamples/sec, 12-bit
DAQ Kit 8 PCMCIA, 8/16 channel, 500kSamples/sec, 12-bit
DAQ Kit 9* USB, 8/16 channel, 250kSamples/sec, 16-bit
DAQ Kit 10* USB, 8/16 channel, 125MSamples/sec, 16-bit
* these kits are currently not avail. for MiDAS OS (only for DA)

How Waveform Per Frame Technology Works

MiDAS (Motion and integrated Data Acquisition System) is the industry leading software for synchronizing high-speed video cameras with sensor data. MiDAS DA implements the newest version of the heralded Waveform per Frame™ technology invented over 10 years ago by Xcitex engineers to achieve unparalleled accuracy and precision.

