



RDI TECHNOLOGIES SOFTWARE

The world's first non-contact Motion Amplification® software platform.



RDI Technologies' software suite is seamlessly integrated for a simple user experience from the moment you press record until you create a finalized video for reporting. All of our proprietary software processes focus on helping you determine the root cause issues of your machinery, process, and test bed problems quickly, safely, and simply.

MOTION AMPLIFICATION® ACQUISITION

LIVE MOTION AMPLIFICATION®

Live Motion Amplification® enables users to visualize motion that is impossible to see with the human eye and gives you the ability to see and communicate faults through a simple, easy to understand video.

VISUAL DISPLACEMENT™

Visual Displacement enables you to acquire a time waveform live in the acquisition software to make instant accurate displacement measurements on video data with the click of a button and no contacting sensors.

VISUAL FREQUENCY™

Visual Frequency enables you to acquire a spectrum live in the acquisition software to make instant accurate measurements of vibration on video data with the click of a button and no contacting sensors.



MOTION AMPLIFICATION® ANALYSIS

VISUAL PHASE™

Visual Phase creates a visual way to compare measurements on machinery to see if they are in or out of phase and make accurate phase calculations.

MOTION STABILIZATION

Motion Stabilization allows the effects of camera shake or other potential cause of camera movement to be eliminated with a simple click of the button.

MOTION FILTERING

Motion Filtering makes troubleshooting simpler by allowing you to filter the video amplification to show any frequency of interest and see how that motion moves throughout the image.

VISUAL SHAFT INSPECTOR

Visual Shaft Inspector is a video-based version of freezing the motion of a rotating shaft and then detuning the strobe slightly so that the shaft appears to slowly rotate for inspection. Precise turning speed can also be determined.

MOTION MAP

Motion Map provides a colorized image displaying all frequencies either simultaneously or individually to more easily see movement at different colors that represent different levels of intensity.

LONG TERM RECORDING MODE

Long Term Recording mode allows you to acquire data for longer periods of time than a standard acquisition. This enables visualization and measurement of phenomenon such as thermal growth.

MOTION STUDIO

Motion Studio gives you the ability to create more powerful videos with RDI's Motion Amplification® software without needing to use 3rd party editing software. Add spectra and waveforms to your videos, show multiple views, and edit your videos for reporting.

MOTION VECTORS

Motion Vectors shows the vibration data in vector (amplitude and direction) format during data/video playback so that you can quickly visualize how multiple points are moving relative to each other in the scene.

MOTION EXPLORER

Motion Explorer is a data management software to manage raw data, videos, images, and more in a central software database. It keeps data organized and helps users avoid losing track of valuable data.