



Millington, TN > 901-873-5300
Little Rock, AR > 501-375-9178

Motion Amplification: Visual Motion/Vibration Measurement Technology

MONITOR

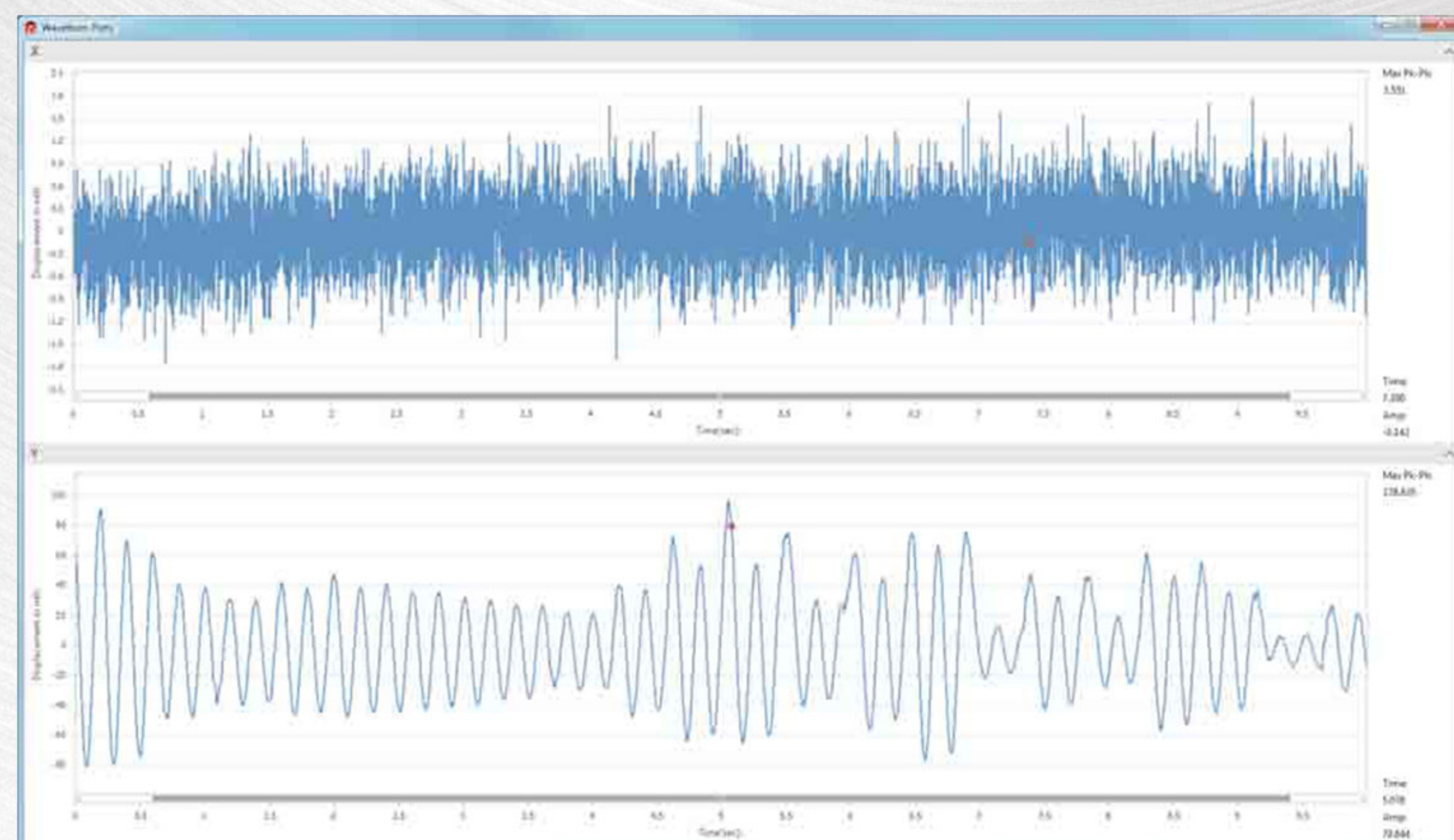
Motion Amplification Technology monitors critical manufacturing operations, processes, and structural components that affect Plant reliability and productivity.

MEASURE

Motion Amplification Technology measures deflection, displacement, movement and vibration invisible to the human eye.

IDENTIFY

Motion Amplification Technology identifies and solves problems in the field quickly, allowing engineers to review results and collaborate with our field technicians.



TO WATCH VIDEOS REGARDING REAL LIFE EXAMPLES GO TO
GOHISPEED.COM/MOTIONAMPLIFICATION

YOUR MOTION AMPLIFICATION STUDY

Once our Motion Amplification study is completed, we provide you with a detailed report of our findings.

Our reports contain:

- ✓ Detailed summaries of each machine or structural condition
- ✓ Annotated videos
- ✓ Spectrum and waveform graphs
- ✓ Detailed summaries of machine condition.

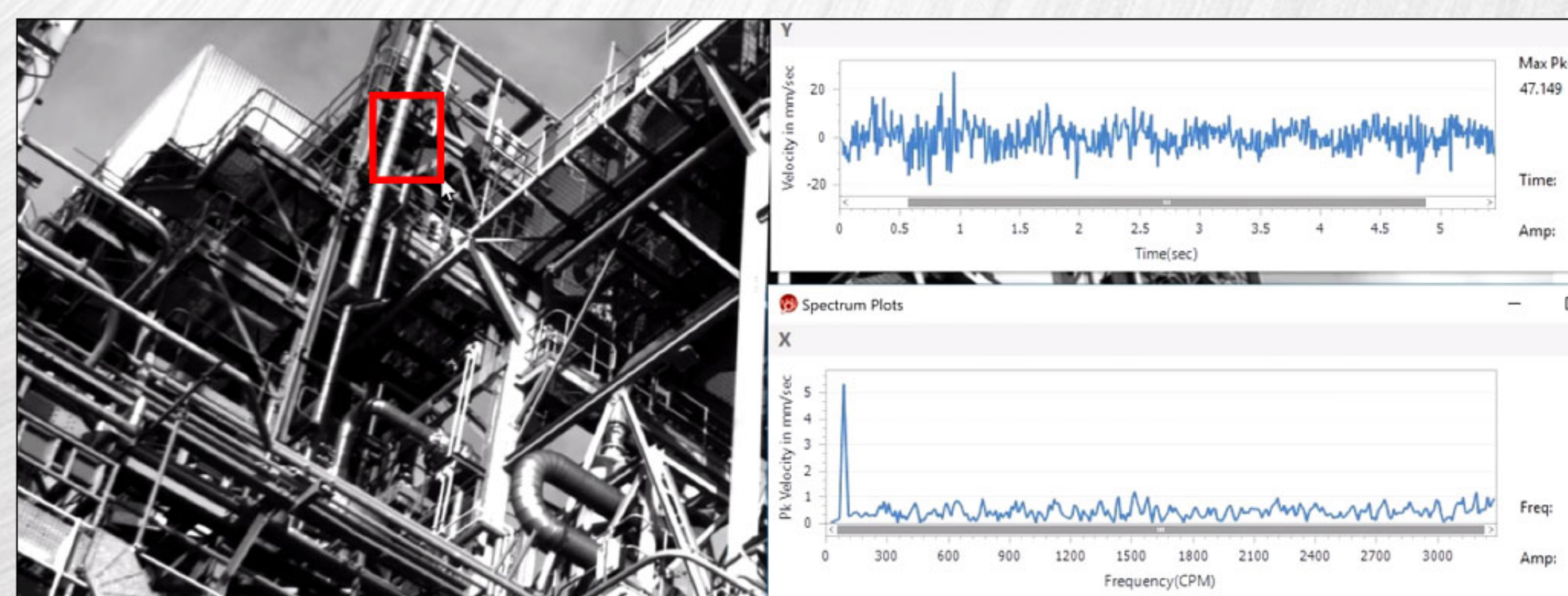
We'll make sure you can see and understand exactly where problem areas and faults are occurring all without impeding your daily work processes.



Visit www.GoHiSpeed.com to learn more about Hi-Speed Industrial Service.

Applications: Motion Amplification

- ✓ **ALUMINUM** - Rolling Mill, more
- ✓ **AUTOMOTIVE** - OEM-lighting, Rivet Assembly Line, Press, Robots, more
- ✓ **BRIDGES** - Excessive movement, Displacement
- ✓ **CHEMICAL** - Pumps, Vessels
- ✓ **FOOD & DRINK** - Processing, Packaging
- ✓ **MACHINE TOOLS** - Centerless Grinders, CNC Machines
- ✓ **MINING** - Drilling, Conveying, Mills, Crushers Flotation Cells
- ✓ **OIL & GAS** - Pumps, Piping, Mechanical Seals, more
- ✓ **PULP & PAPER** - Pumps, Motors, Paper Machine, Presses, Transfer Lines
- ✓ **PHARMACEUTICAL** - Packaging Lines
- ✓ **POLYMER PLANT** - Classifier, Vibratory Screens, Cooling Tower
- ✓ **NON-NUCLEAR POWER** - Turbine Generators, Stator Pumps, ID Fans, Wind Turbines
- ✓ **NUCLEAR POWER** - Coolant Pumps
- ✓ **WATER TREATMENT** - Pumps, Agitators



FAULT TYPES THAT CAN BE VISUALISED....

- ✓ **PIPING VIBRATION**
- ✓ **ENGINE & COMPRESSOR MOTION**
- ✓ **UNBALANCE**
- ✓ **MISALIGNMENT**
- ✓ **SOFT FOOT**
- ✓ **STRUCTURAL LOOSENESS**
- ✓ **RESONANCE**
- ✓ **STRUCTURAL CRACKS**
- ✓ **DUCT AND VESSEL WALL DEFLECTIONS**
- ✓ **STRUCTURE STIFFNESS & SUPPORT**
- ✓ **TORSIONAL TWIST, BEND, FLEX**
- ✓ **EXCESSIVE TRANSIENT LOADING**
- ✓ **INEFFECTIVE DAMPING**
- ✓ **VIBRATING SCREEN MOTION ANALYSIS**
- ✓ **OSCILLATING MOTION ANALYSIS**
- ✓ **CAVITATION, HYDRAULIC FORCES**
- ✓ **DRIVE TRANSMISSION FAULTS, BELTS, CHAINS, COUPLINGS, CARDAN SHAFTS**