

# THOR™

## Advanced Event Management Software



### Transform Your Minimate Pro Monitoring Unit Into An Advanced Data Analysis Tool

THOR Advanced Software is a powerful software package that offers enhanced analysis features and access to advanced sensors transforming the THOR event management compliance software into a sophisticated, scientific, research and analysis tool.

#### Signature Hole Analysis

Reduce vibrations/noise efficiently using Signature Hole Analysis calculations and simulations.

#### Human Exposure Reports

Calculate the effects of Blast Vibrations (VDV) on people in the surrounding area with Human Exposure Reports.

#### Transfer Function

Monitor Structural response using the Transfer Function. Calculate the structural response based on a comparison of two waveforms recorded inside and simultaneously outside of a structure.

### Advanced Analysis Features Take Event Reporting to the Next Level

- Perform in-depth data analysis on events recorded with an InstanTEL Series III, Minimate Pro, or Micromate monitoring unit.
- Define six sensor channels with custom sensitivities and trigger levels.
- Create Setup Files for maximum precision high-frequency applications where your Minimate Pro unit can sample up to 65,536 S/s.
- Create your own waveforms or apply 24 integrated operations to study your recorded waveforms.
- Benefit from a range of advanced sensors.
- Create preset commands using one or more of the specific advanced functions.

#### Histogram-Combo™ Mode

Using Histogram-Combo mode you can record both Waveform and Histogram events simultaneously. Set your time interval and view the peak data for that interval.

#### Range of Applications

- Construction Activity
- Near-Field Blast Analysis
- Far-Field Blast Analysis
- Multi-Point Monitoring
- Pile Driving
- Underwater Monitoring
- Demolitions
- Heavy Transportation
- Sound/Noise Monitoring
- Research/Education
- Environmental
- Structural/Bridges
- Tunnels and Subways
- Blasting
- Compaction
- Vibration Dose Value
- Travel Time
- Arrival Time

### THOR Software Includes the Following Compliance Standards and Graphs

- Australia 2187.2-1993
- Brazilian Standard NBR 9653/2005
- British Standard 7385
- BS 6472:1992 (Curves 8,16,20,32,60,90,128)
- Criterio Prevencion (Une 22.381)
- Czech and Slovak Standard
- DIN 4150
- DIN 45669-1 (2010)
- Function de Ponderation
- GFEE + Ministère Environnement
- Harmoniska Svängningar
- Indian CMRI, DGMS India (A) & (B)
- Indonesian SNI 7571:2010
- ISEE Seismograph Specification -2017
- New Zealand 4403:1976
- NOM-026-SESH-2007
- NZS/ISO 2631-2:1989 Combined curves
- QLD APP Standard
- Recommendation GFEE/GFEE\*
- Swiss SN 640 312a (Mining/Pile Driving/Traffic)
- Toronto 514-2008
- Turkey Mining & Quarry
- USBM R18507 And OSMRE

## Software Features

- Available in English, French, Spanish, Swedish
- Advanced Setup mode monitoring for Minimate Pro 4/6
- Advanced data analysis for all event data
- Requires Windows 7, 8, 10, Server 2012 R2
- Requires .NET Framework V4.5 or higher, Internet connection, USB port

## Dashboard

- Status overview of all connected units
- Operating modes
- Battery life
- Allocated memory resources
- Connection details
- Recorded events
- Current setup file
- Calibration Information
- Firmware Version
- Operators
- Auto Call Home
- Start/Stop monitoring
- Run sensor checks
- Restart Unit

## Units

- Complete list of units and their assigned projects
- Custom settings per unit
- Custom unit setups
- Batch firmware upgrades
- Multiple operators per unit
- Scheduling assistant to automate remote monitoring

## Projects

- Customize settings per project
- Choose your compliance standards
- Relay data to Vision software
- Choose your report language
- Swap between Imperial/Metric

## Reports

- Industry Standards to demonstrate compliance
- Histogram (bar-graph) / Waveform reports
- Zoom in/out of graphs
- Place markers on important parts of a waveform
- Customize reports with your company logo
- Add post-event notes to a report
- Export reports to PDF, XML, ASCII or CSV

## Auto Call Home

- Connect with a computer or straight to the cloud
- Create filters to direct/view data
- Manage unit resources automatically
- Generate event/log reports
- Send summaries to individual stakeholders or entire groups via email or SMS

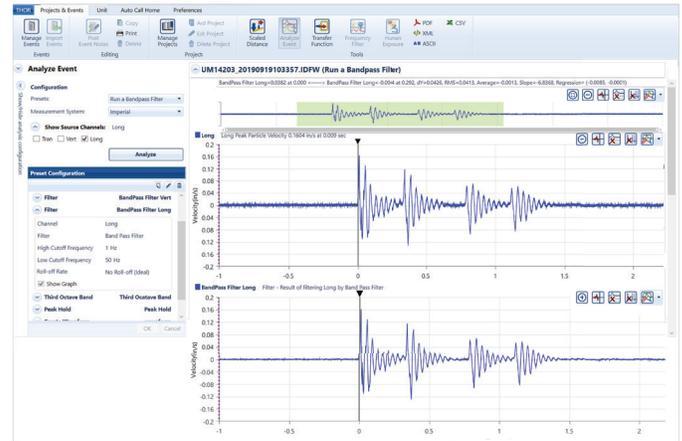
## Notifications

- Send email notifications based on event type or threshold
- Receive info/warning/error notifications
- Secure SSL, TLS protocols

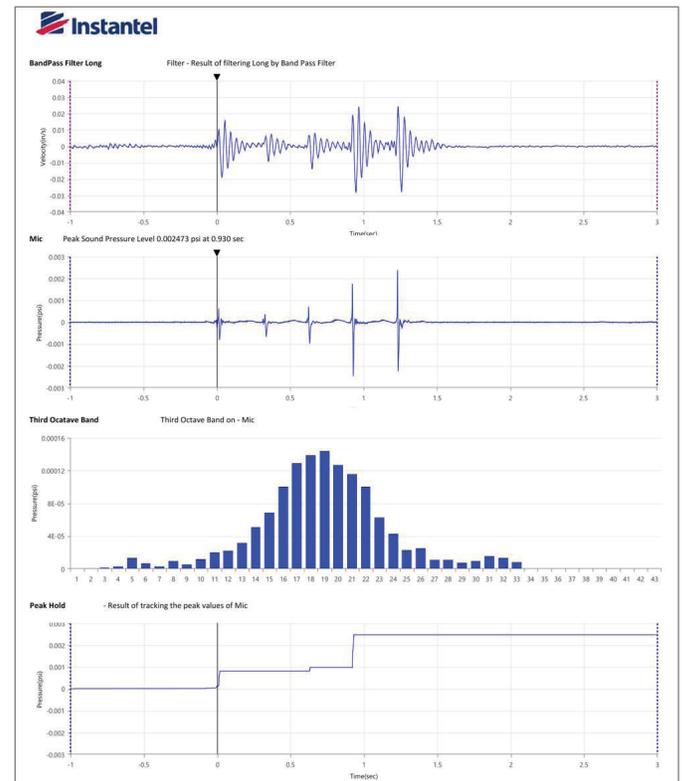
## THOR Software Advanced Operations on Waveforms

Benefit from these integrated operations to study your recorded waveforms, and save your own preset functions, only with THOR Advanced Software.

- Add / Subtract
- Create Waveforms
- Differentiate
- Fast Fourier Transform (FFT)
- Filter
- Human Exposure
- Integrate
- Interval Analysis
- Linear Superposition
- Octave Data Conversion
- Peak Hold
- Remove Offset
- Scale / Scaled Distance
- Shift
- Signature Hole Analysis
- Smooth
- Sound Calculations
- Third Octave Band
- Timeline Overlay
- Transfer Function
- Truncate
- Vector Sum



THOR Software Advanced Data Analysis



Example Waveform Outputs