

Vista

DATA VIEWER & CONVERTER SOFTWARE

See It. Understand It. Export It.

Open MiniSEED/ASCII, visualize, analyze, and convert—no fuss.

Why Vista

- Load large multi-channel projects; stacked or multi-chart layouts.
- One-click CSV export of visible regions for downstream tools.
- Quick stats: rate, min/max, RMS, skew, kurtosis.
- Cursor measurements & annotations for precise readouts on plots.
- Channel math (sum, vector RMS, integration helpers) for quick transforms.
- Batch export of plots/CSV from multiple selections in one go.

What makes it different

- Time-domain tools: detrend, decimate, filters (Butterworth/Chebyshev/Bessel/Elliptic).
- Frequency tools: FFT, PSD, spectrograms; response spectrum A→V→D integration.
- Modern workflow built for speed and clarity.

Made for

Operational checks • Offline studies •
Quick event triage • Report graphics

How Vista fits your SHM



- Daily companion: the desktop tool for quick checks, conversions, and figure generation.
- Signal toolbox: detrend/decimate/filter → FFT/PSD/spectrogram → response spectra → integration A→V→D.
- Bridge toolchains: convert MiniSEED/ASCII into lightweight tables/plots for sharing and archiving.

Manage your deployment

Import: MiniSEED, ASCII (CSV/TSV).

Processing: Filters, decimation, integration, correlations.

Frequency: FFT/PSD/spectrogram; response spectra.

Figure/Data export: Save plotted series as ASCII; export figures (PNG); batch sets.

Charting: Multi-panel & stacked/overlay views; zoom, cursors, annotations.

OS: Windows 10/11 (64-bit).

Outcome snapshot

- From raw to usable fast: open large projects, visualize clearly, and export the exact slice you need.
- Defensible numbers: quick statistics and frequency tools yield reliable, reproducible metrics.
- Cleaner reports: publication-ready plots (time/frequency/spectrogram/response) without scripting.
- Interoperable: CSV exports drop straight into your notebooks and BI tools.

Your workflow with Digitex

- **Instrument:** load files from Voyager/Nexus/xPlorer or exports from the field.
- **Acquire:** select channels/time windows; apply filters/decimation as needed.
- **Analyze:** inspect waveforms, spectra, PSDs, and spectrograms; compute stats
- **Act:** export CSV/plots for reports; document settings for repeatability.
- **Operate & scale:** batch similar jobs; maintain project folders with consistent naming.

CE • ISO • Calibration certificate

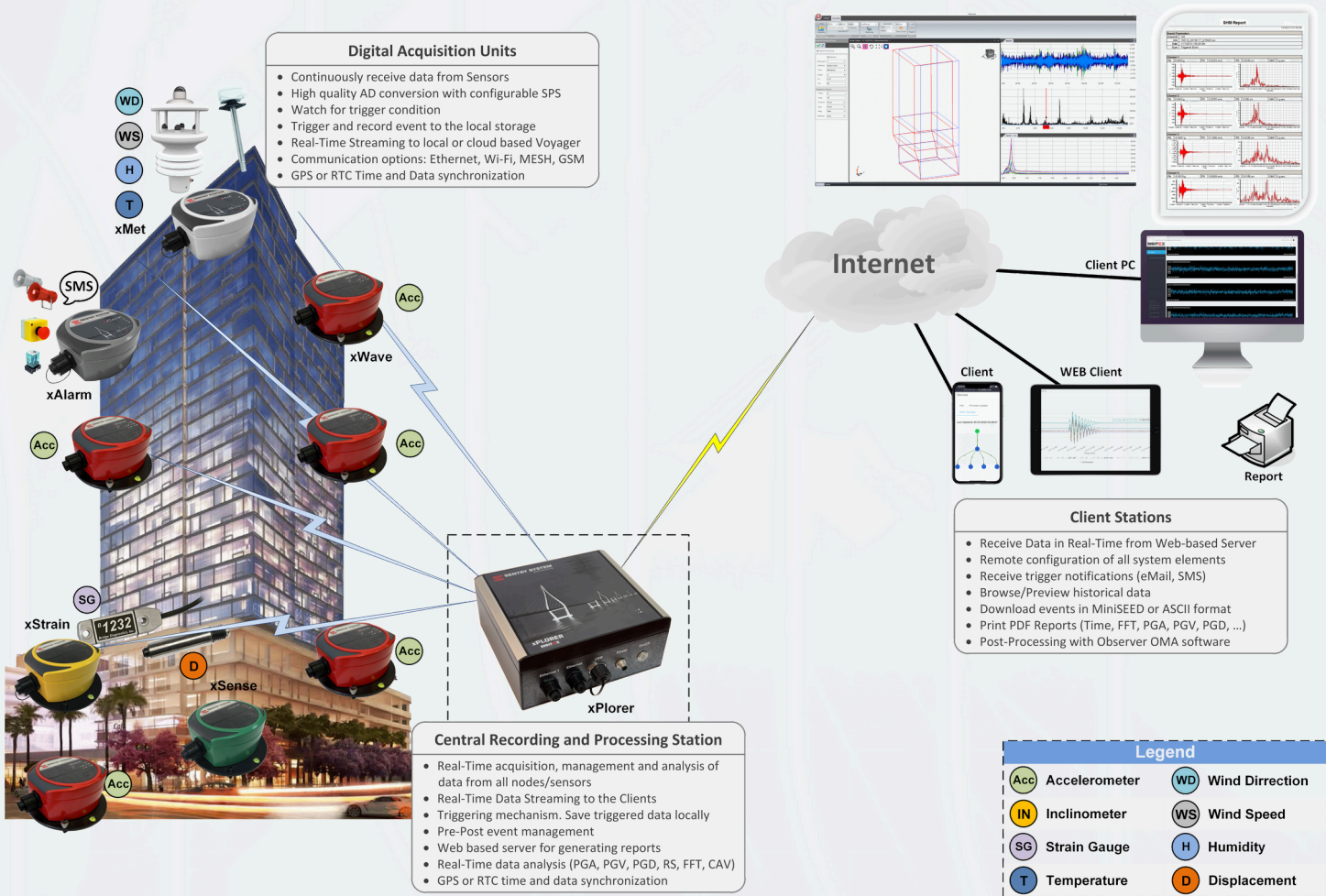
SHM SOFTWARE OVERVIEW

Digitex software is the intelligence layer of the Sentry System—turning raw sensor streams into reliable engineering insight. Built specifically for Structural Health Monitoring (SHM) and earthquake engineering, the suite covers the full lifecycle of a project: acquisition in the field, continuous storage and alerting, professional visualization, advanced analytics, and publishing of audit-ready reports.

Digitex SHM Software is a cohesive suite that acquires, manages, analyzes, and communicates structural data—from live streams to publishable results. Voyager serves as the central, web-based hub for configuration, time alignment, recording, alarms, and reporting. Nexus supervises real-time feeds on operator PCs, providing local recording and quick sanity checks. Vista opens measurement files for fast visualization, statistics, and conversions. Observer delivers advanced signal processing and Operational Modal Analysis with geometry-based 3D mode-shape visualization. Together, they turn raw measurements into synchronized, defensible insight with automated outputs for stakeholders.

SHM SOFTWARE MEMBERS

The SHM Software family consists of the following applications, which can be used individually or as part of a complete Digitex deployment: **Voyager** – server software for acquisition, device management, triggering, streaming, and automated reports; **Nexus** – SeedLink client for supervising live stations with local MiniSEED recording; **Vista** – data viewer and converter for plotting, statistics, filtering, FFT/PSD, and CSV/PNG export; **Observer** – analysis and OMA suite for FDD/EFDD/FSDD/SSI/PLSCF methods with 3D geometry and reporting.



Sentry System Real-time Monitoring

ABOUT DIGITEX

Digitex is a company specialized in design and development of real structural health monitoring systems for a variety of industries and applications including: bridges, tall buildings, campuses, windmills, oil rigs and more. Digitex's innovative solution for ambient vibration measurements and quick health assessment of structures is jointly developed and validated with our partners and advisors from the Universities. When properly configured, the Digitex system is capable of measuring and responding to both natural and man-made events such as: earthquakes, wind, explosions and accidental heavy impacts.