

xPlorer Home

CENTRAL ACQUISITION UNIT

Personal SHM, Simplified

A compact Voyager® hub that acquires, aligns, stores, and reports data from your home/small-building Pulse sensors—always on, always synchronized.

Why xPlorer Home

- Purpose-built central hub for Personal SHM with browser-based setup and live charts.
- Continuous Ring Buffer + event capture with pre/post windows—no missed incidents.
- DigiSync® timing for sub-ms alignment across Pulse units.
- Real-time streaming to clients and automated PDF reports—no extra software.
- Compact, low-power, silent operation for permanent installs.

What makes it different

- Professional SHM features at an accessible cost for houses and small facilities.
- Local storage with configurable retention; simple CSV/MiniSEED export.
- Designed for unattended, long-term reliability.

Made for

Homes & apartments • Small buildings & community sites • Light-industrial rooms • Campus pilots & education

How xPlorer Home fits your SHM

- Sits centrally and manages Pulse accelerometers, aligning time and recording continuously.
- Streams data live to web and mobile clients, generates automatic reports, and notifies on events.
- Ideal for permanent monitoring, quick diagnostics after events, or learning/teaching setups.



Configure your unit

Comms: Ethernet (10/100); optional Wi-Fi backhaul.

Timing: DigiSync® (sub-ms) with RTC/GPS support.

Recording: Ring Buffer + events; user-set retention; Store&Forward®.

Management: Web UI, live charts, logs, and auto PDF reports.

Power/Size: Low power, silent; compact desktop/Wall-mount enclosure.

Environment: Home/office operating ranges.

Outcome snapshot

- Clean, time-aligned home/building vibration data from day one.
- Automatic reports and notifications without a PC.
- Simple, quiet, and reliable for long-term use.

Result: Professional-grade monitoring for everyday spaces—faster insights, fewer visits, and peace of mind.

Your workflow with Digitex

- **Instrument:** place the unit centrally; connect Ethernet/power; position Pulse sensors; verify level/orientation.
- **Acquire:** configure in Voyager®; confirm DigiSync®; run Ring Buffer and triggers.
- **Analyze:** preview waveforms/spectra; compare days/weeks; export.
- **Act:** set thresholds and notifications; share automated PDF reports.
- **Scale:** add Pulse sensors or extend to small-facility networks with the same workflow.

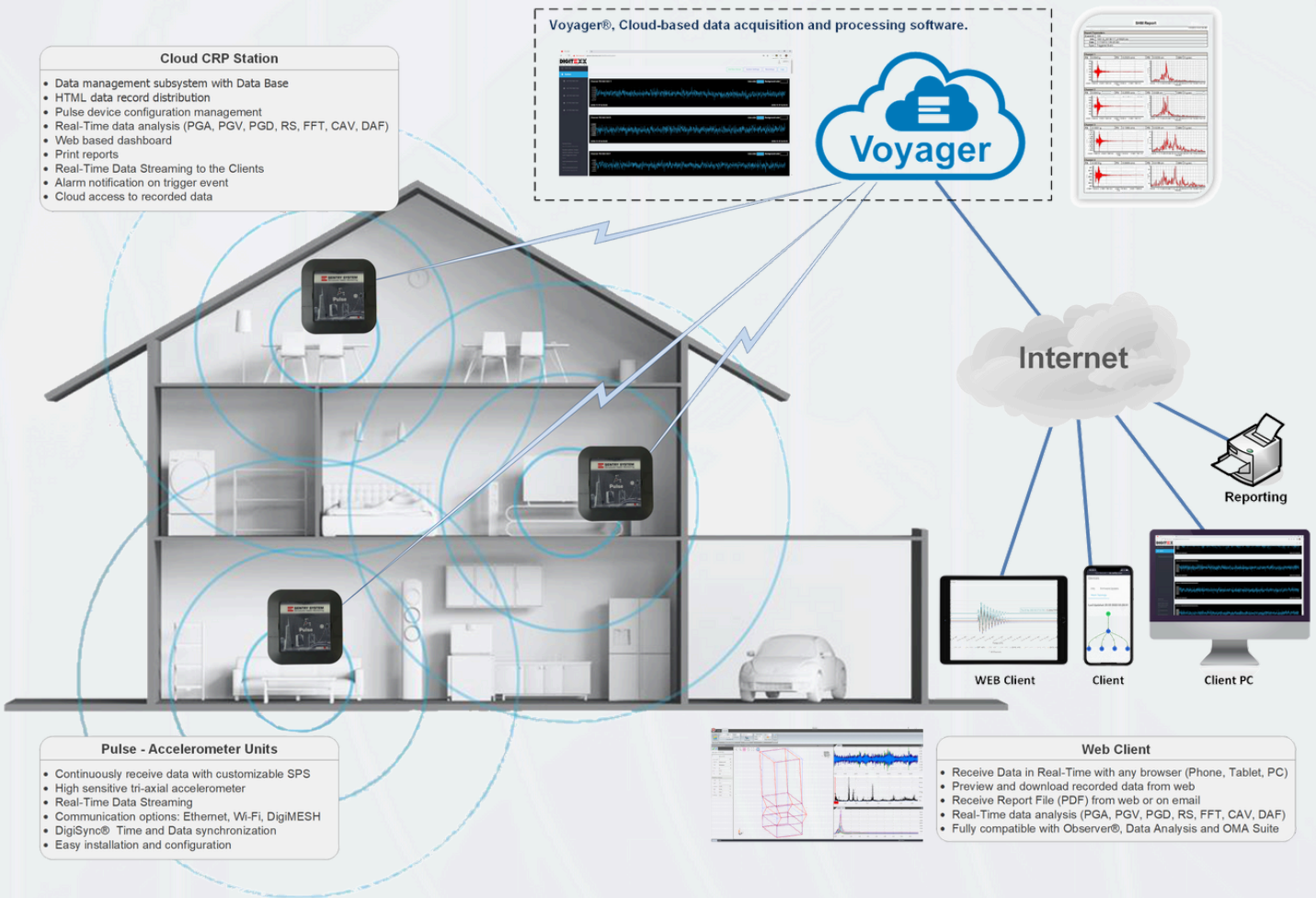
CE • ISO • Calibration certificate

PERSONAL SYSTEM OVERVIEW

Personal SHM is Digitex Systems' home/small-building solution centred on xPlorer Home with Pulse sensors. The hub acquires, time-aligns (DigiSync®), and continuously records vibration from multiple rooms, buffering events with pre/post windows so nothing is missed. Setup is browser-based; live charts, notifications, and automated PDF reports keep you informed without a PC. Low-power, quiet hardware runs unattended for months, delivering clean, comparable data for routine monitoring, quick post-event checks, and learning/teaching use. Designed as an entry-level yet professional SHM platform, pSHM pairs the xPlorer Home central station with Pulse accelerometers to offer a practical balance of functionality and cost. The system provides continuous recording with ring-buffer retention, event-based captures with pre/post time, and browser-based visualization and data download. Compared with enterprise Sentry System families (xDAS, xCAS), pSHM uses sensors with lower sensitivity and simplified environmental protection, and enables a curated subset of Voyager® functions that are most relevant to residential and light-commercial monitoring.

PERSONAL SYSTEM MEMBERS

The Personal Sentry System family consists of units that can be installed as standalone devices or as part of a complete Personal SHM deployment: **xPlorer Home** - central acquisition & processing unit; **Pulse** - personal digital accelerometer sensors placed around the home or small facility; **Client Apps** - web/mobile viewing, configuration, and reporting.



Sentry System with Pulse - Real-time Structural Health 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.