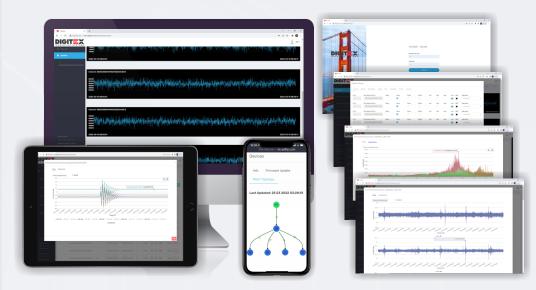
xPlorer Premium Central Acquisition & Processing Station

- xPlorer Premium
- Up to 60 days local storage
- Integrated Voyager® software
- GPS/DigiSync® synchronization
- · Industrial IP67 design

Overview

xPlorer® is the central station of the Sentry System — providing reliable, real-time acquisition, management, and analysis of structural monitoring data. Designed for permanent installations, xPlorer combines robust industrial hardware with the powerful Voyager® software suite. With multiple communication options, integrated time synchronization, and secure local storage, xPlorer ensures uninterrupted operation even in the harshest environments.



"The Core of Distributed SHM – Reliable, Real-Time Data Acquisition and Processing"

Key Features

- Permanent & Reliable Industrial-grade enclosure, IP66/IP67 protection, embedded UPS (20h autonomy)
- Advanced Acquisition Supports up to 254 units, flexible triggering (Leveling, STA/LTA, Above/Below thresholds, OMA agent)
- Seamless Software Integration Voyager® Data Management Suite included for acquisition, reporting, and analysis
- Robust Data Handling Continuous ring buffer recording (up to 60 days), Store&Forward®, MiniSEED compatibility
- Flexible Communications Dual Ethernet ports, Wi-Fi, DigiMESH®, optional GSM/4G
- Accurate Timekeeping GPS or DigiSync® protocol for precise system-wide synchronization
- User Friendly Web interface for configuration, reports, remote management & OTA updates
- Smart Alarming Relay outputs, SMS/email notifications, integration with xAlarm



- Guarantees zero data loss even in network outages
- Reduces installation cost with wireless DigiMESH® options
- Provides global synchronization across all sensors
- Ensures fast reporting with automated PDF/CSV outputs
- Offers scalable architecture expandable as your project grows





xPlorer Premium Central Acquisition & Processing Station

Technical Specifications

Environmental Operating: -20°C to +55°C, 90% RH non-condensing Rugged aluminum enclosure, IP66/IP67; Weight: 0.7 kg; **Physical** Dimensions: 130 × 120 × 65 mm Input: 110/220 VAC; Backup: 12V external battery; Consumption: **Power** 5-10 W; Integrated UPS (20h autonomy) Ring buffer (up to 60 days); Triggered, scheduled, manual **Data Handling** recording; Compression: DigiWLC & MiniSEED Synchronization GPS, DigiSync®, RTC 2 × Ethernet, Wi-Fi, DigiMESH®, optional GSM/4G; FTP & SeedLink Connectivity servers **User Interface** Informational LEDs; Web app panel **Outputs** Configurable relays (NO/NC); Email/SMS notifications **Software** Comes pre-installed with Voyager, providing full data acquisition, management, triggering, analysis, and reporting. Works seamlessly with Nexus SeedLink client, Vista data viewer, Integration and Observer OMA analysis suite.

"The heart of every
Digitex Sentry System
installation."

Applications

- Long-term monitoring of bridges, dams, tunnels, pipelines, tall buildings
- Earthquake early warning and structural response monitoring
- Rapid post-event safety assessment
- Mining and industrial asset vibration monitoring

About Digitex

Digitex Systems provides advanced Structural Health Monitoring (SHM) solutions for civil infrastructure worldwide. Our portfolio includes cutting-edge sensors, acquisition systems, and analysis software tailored to deliver real-time, actionable insights. Learn more at www.digitexsystems.com.

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