

DL-SE-302 Technical Specification

Strong Motion Recorder

Strong motion recorder with 3 or 6 synchronized analog input channels, 24-bit conversion, -10 to 10 V input range, 0.005 mV resolution, 1 to 2000 Hz sampling, local storage, GPS, BeiDou, or network time synchronization, and field display operation.

System Category	DL-SE
Signal Type	Strong motion acquisition
Measurement Range	-10 to 10 V analog input
Sampling / Response	1 to 2000 Hz
Communication	GPS, BeiDou, or network timing with remote data transfer
Protection / Enclosure	Project-specific enclosure
Power Supply	12 VDC with optional battery configuration
Installation	Cabinet or field station installation

Key Features

- Three or six synchronized channels support strong-motion and structural earthquake observation.
- 24-bit conversion, local storage, and trigger recording support unattended event capture.
- GPS, BeiDou, and network timing support multi-station synchronization.
- LCD field operation supports parameter setting and status review.

Typical Use Cases

- Dam and slope fault-zone earthquake motion monitoring.
- Structural strong-motion observation requiring synchronized field acquisition.

Deployment Notes

- Confirm channel count, trigger threshold, cutoff frequency, timing mode, and data transfer method.
- Coordinate sensor wiring, cabinet protection, and backup power for field deployments.
- Avoid importing supplier software names or protocol ownership statements into public pages.

Technical Highlights and Standards

- 3 or 6 synchronized channels
- 24-bit A/D conversion
- 1 to 2000 Hz sampling
- -10 to 10 V input

- 0.005 mV resolution
- GPS / BeiDou / network timing

Branding, supplier names, phone numbers, email addresses, physical addresses, logos, customer lists, prices, and original supplier model identifiers have been intentionally excluded from this public specification.