

DL-SE-303 Technical Specification

Integrated Strong Motion Instrument

Integrated strong-motion instrument combining triaxial force-balance acceleration sensing, 24-bit acquisition, storage, network communication, and GPS timing, with +/-2 g or +/-4 g range, 0 to 200 Hz bandwidth, event-triggered recording, and IP67 protection.

System Category	DL-SE
Signal Type	Integrated strong motion
Measurement Range	+/-2 g or +/-4 g
Sampling / Response	0 to 200 Hz bandwidth
Communication	Network data transmission with GPS timing
Protection / Enclosure	IP67
Power Supply	12 VDC
Installation	Base-plate field installation

Key Features

- Integrated sensor, acquisition, storage, timing, and network transmission reduce field system complexity.
- Triaxial force-balance acceleration measurement supports strong-motion observation.
- Event-triggered recording and local storage support earthquake and blasting monitoring.
- IP67 sealing supports permanent field installations.

Typical Use Cases

- Dams, bridges, stations, tunnels, and free-field strong-motion monitoring.
- Blasting observation and earthquake early-warning networks.

Deployment Notes

- Confirm measurement range, installation orientation, timing, trigger thresholds, and data-server settings.
- Use stable base mounting and protect power/network cables in outdoor environments.
- Keep public documentation generic and remove original supplier model references.

Technical Highlights and Standards

- +/-2 g or +/-4 g range
- 0 to 200 Hz bandwidth
- 24-bit acquisition
- GPS timing

- Event-triggered recording
- IP67 protection

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.