

CART TRACK

CART-MOUNTED POSITIONING & CONTROL SYSTEM

ACCURATE. RELIABLE. READY TO ROLL.

Cart Track is a cart-mounted positioning and control system designed for reliable location tracking in indoor, outdoor, and GPS-denied environments. Dual wheel encoders calculate movement when GNSS signals are unavailable or unreliable, while GPS passthrough supports live positioning in open environments. System setup, status, and mapping are viewed from a connected smartphone, tablet, or laptop.

TWO MODES. ONE SYSTEM.

- Wheel-encoder positioning for GPS-denied environments.
- Live GNSS passthrough for outdoor operation.
- Monitor and configure Cart Track from a smartphone, tablet, or laptop.

KEY FEATURES



GPS-DENIED POSITIONING

Dual wheel encoders calculate distance and position without relying on satellite reception. Ideal for indoor areas, urban canyons, multipath environments, and locations with unreliable GNSS.



GPS PASSTHROUGH

Forwards live NMEA position data from a connected GNSS receiver directly to the acquisition system during outdoor operation.



CALIBRATION TOOLS

Built-in rollup and wheelbase calibration improve distance, turning, and position accuracy for the installed cart.



NETWORK CONNECTIVITY

Wi-Fi and Bluetooth provide browser-based setup, system status, GNSS corrections, and optional NTRIP connectivity.



LIVE GNSS STATUS

View fix status, satellite information, position accuracy, correction status, and compatible receiver details.



SEISMIKE SOLENOID CONTROL

Supports manual, distance-based, and time-based automatic tapping on compatible SeisMike systems.



WHEEL-BASED POSITIONING

Cart Track uses dual wheel encoders to measure actual cart movement rather than estimating position from inertial sensors. In encoder mode, operation does not depend on GNSS, allowing continued tracking in GPS-denied environments and areas affected by signal blockage, multipath, jamming, or spoofing.

SPECIFICATIONS

Input Power	5-24 V DC
Encoders	Dual quadrature, 360 cycles/rev
Modes	Encoder odometry or GNSS passthrough
GNSS	Bidirectional RS-232, 19200 8N1 default
Connectivity	Wi-Fi, BLE and NTRIP correction support
Outputs	NMEA, simulated NMEA, distance and position
Interface	Browser-based configuration & status
Optional SeisMike Control	Manual, distance-, or time-based tapping

