



Telenav TG2.0 Navigation

The Next Generation of In-Vehicle Navigation



Advanced navigation technology delivering premium visual experiences, intelligent routing, and precision guidance for the modern driver.

Software Evolution: TianGong Generation

- TG1.0**
Serving: SAIC, Xpeng, Deepal, ChangAn, Mazda, Chery
Mature mass production, limited feature development
- TG2.0 (Current)**
Serving: BYD, NIO (SDK)
Mature and ready for mass production with new features
- TG3.0 (Planned)**
New projects and OTA upgrades to launch in 2027
Next-generation feature planning

Key Optimization Areas

- Visual Enhancements**
Improved UI for cleaner, intuitive experience
- Smarter Routing**
Tailored for EVs, CVs, and 4x4 vehicles
- Seamless Search**
Google-powered POI access
- Premium Rendering**
Immersive map visualization

Visual Excellence

TG2.0 introduces a light skeuomorphic design style aligned with current design trends, featuring improved UI for a cleaner, more intuitive experience. Enhanced multi-size adaptability supports landscape, widescreen, portrait, and split-screen modes with flexible adaptation to various screen ratios. Premium map rendering creates a more immersive driving experience with dynamic day/night transitions, satellite imagery, and realistic 3D terrain visualization.

Precision Guidance

Advanced navigation features ensure drivers never miss critical information. 2D intersection views provide clear road topology before complex intersections, while advanced lane guidance displays lane distribution and recommendations for tight lane-changing scenarios. Traffic light countdown predictions reduce waiting anxiety and improve safety, while highway rest area information helps drivers plan stops effectively.

Enhanced Search

Google-powered search integration delivers comprehensive and accurate results with richer detailed information. Access vast amounts of high-quality POI data including ratings, price levels, opening hours, photos, and customer reviews. On-street parking search provides flexibility for parking choices, while Send2Car SDK enables seamless connectivity between mobile apps and in-vehicle systems.

2D Intersection View

Enlarged diagrams of complex intersections and roundabouts

Generates 2D enlarged diagrams based on SD map data, displayed before reaching intersections to help drivers perceive road topology in advance. Simplifies navigation through complex intersections with clear visual guidance.

Advanced Lane Information

Comprehensive lane guidance to prevent missed turns

Three types of lane guidance ensure optimal positioning: Straight Lane Guidance prevents entering turn-only lanes, Recommended Lane Guidance assists in tight lane-changing scenarios, and Cruise Lane Guidance displays upcoming lane layouts for advance planning.

Traffic Light Countdown

Big data-driven signal predictions

Utilizes vehicle movement data and intelligent algorithms to predict traffic light timing. Reduces delayed starts, supports smoother traffic flow decisions, and decreases waiting anxiety by clearly displaying remaining wait time.

Highway Rest Area Information

Plan rest stops with comprehensive service area details

Displays upcoming service areas with available services information. Future enhancements include real-time charging station vacancy and approaching service area alerts.

Dynamic Alternative Routes

Real-time route alternatives without distraction

Lightweight display design keeps alternative routes discreetly available with clear information including travel time, distance, tolls, and traffic light count.

Satellite Map

Real-world perspective and enhanced orientation

Toggle between satellite imagery and standard map layers during navigation or cruise mode for enhanced orientation and real-world perspective.

Google Search Integration

High-quality POI data with in-depth information

Leverages Google Places API for comprehensive and accurate search results including ratings, price levels, opening hours, contact information, photos, and customer reviews. Supports keyword search, recommended results, category search, and voice search.

On-Street Parking Search

Curbside parking zones around destinations

Search for curbside parking zones with display of nearby options when approaching destinations. Future support includes slight detour routes passing more roadside parking areas to increase success rates.

Send2Car SDK

Seamless handset-to-car connectivity

Connect mobile companion apps, Telenav Cloud, and in-vehicle systems for low-cost integration. Send addresses from mobile map services or share locations from third-party apps directly to in-car navigation.

EV Exclusive Features

Comprehensive electric vehicle support

Alleviates charging anxiety with reachability checks, one-click charging route planning, real-time vacancy information, and customizable arrival SOC settings. Search by connector type, speed, brand, or nearby amenities.

4x4 Vehicle Routing

Off-road navigation with breadcrumb tracking

Provides 4WD route planning based on HERE 4WD road data attributes. When off-road, displays compass and breadcrumb records in real-time for easy tracing back.

Lane Level Navigation

Precision positioning and lane-accurate rendering

Based on front-camera positioning and SD map data for lane-level accuracy and enhanced navigation precision.