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1 Warnings and Safety Information

Please observe the following instructions during use:

1. The driver must never operate the navigation system while the vehicle is in motion. If adjustments are necessary, park the vehicle in a safe location before making any changes.

2. When driving, the driver must not continuously view the navigation display. To avoid distraction,only glance briefly when it is safe to do so.

3. It is recommended to set your route before starting your journey. Should route changes be required, do so only when the vehicle is safely parked.

4. Always drive in accordance with the prevailing road conditions and comply with all traffic signs. The navigation system will automatically recalculate the route if you deviate from the suggested path.

2 Getting Started

NOTE

If your vehicle is a right-hand drive model, its display interface will be mirrored based on the left-hand drive model. Apart from this, all functions and operation methods for both models are identical.

Quickly access the map using one of the following methods:

- Tap the 'MXNAVI APP' icon in the App Centre to launch the map application.

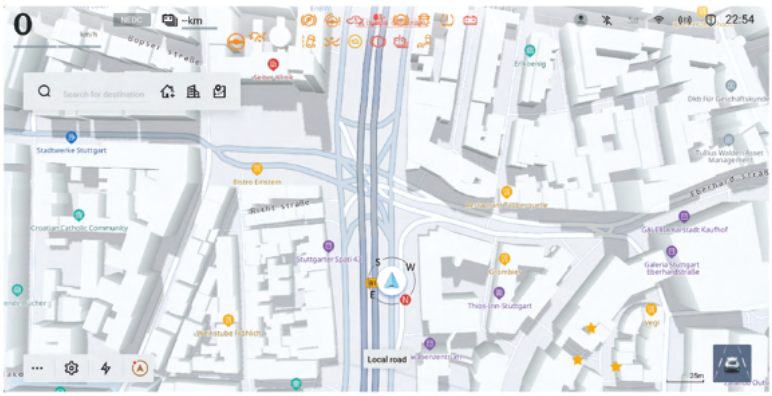


Left-hand drive models

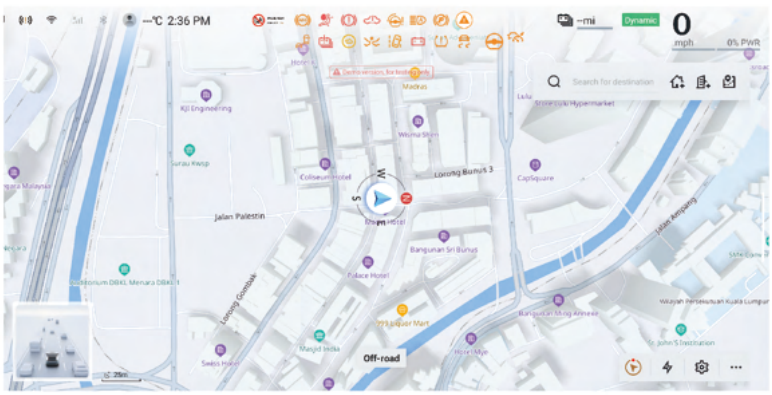


Right-hand drive models

- Set the desktop theme to Map View.

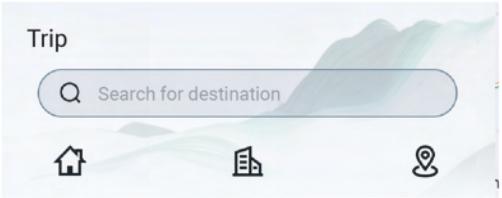


Left-hand drive models



Right-hand drive models

- For quick access to navigation, tap “Trip Card” on the page.



NOTE

When using services such as online navigation and voice control, please complete the following two steps on the mobile app in advance:

- Refer to the "To Start Connected Service" section for instructions on connecting the vehicle..
- Scan the QR code to log in to your account when the vehicle's display screen is powered on, and select the network mode to complete functionality authorisation If the above two steps are not completed, only offline services such as offline voice control and offline navigation will be available, and some online functions will be unavailable.

2.1 Before Using the Navigation System

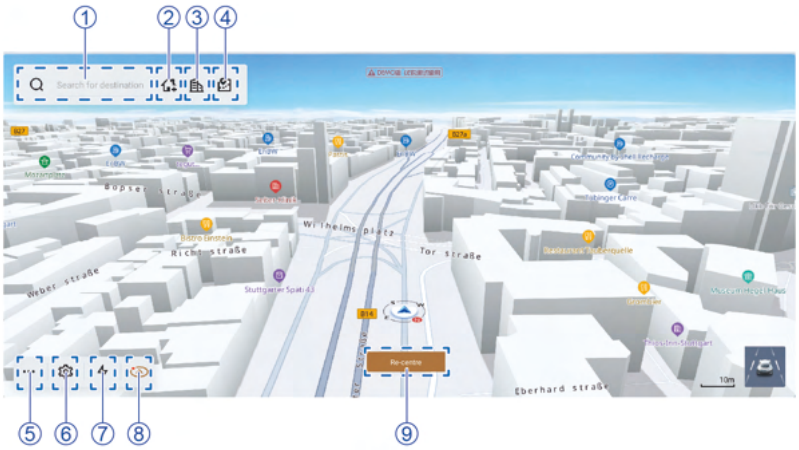
Before using the navigation system, ensure you are familiar with its basic functions and operation. The MXNAVI Navigation uses the in-vehicle positioning system and maps to provide both online and offline services, with an intelligent search engine offering multiple search methods for rapid results. It supports one-touch route planning, recommending the fastest and most efficient route quickly and accurately to ensure optimal guidance to your destination.

For the best experience, avoid operating the system while driving. Destination entry and settings should be done only when it is safe to do so. The system also supports voice control, allowing you to search for destinations, plan routes and perform other functions using voice recognition, further enhancing your safety and convenience.

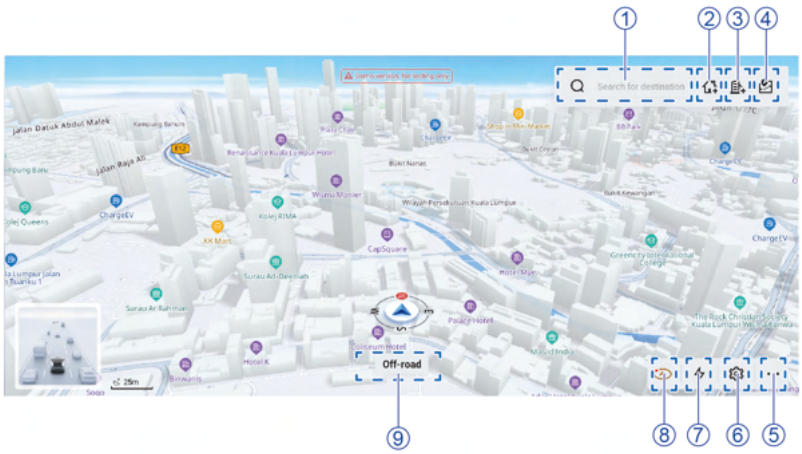
2.2 Map Display

2.2.1 Control Buttons

The top of the Map home screen and the Trip Widget include a search function and quick-access buttons for home and work.



Map home screen (Left-hand drive models)

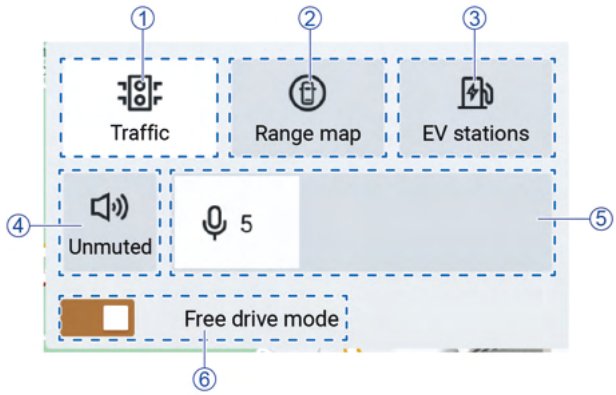


Map home screen (Right-hand drive models)

Map Home Screen Features:

No.	Name	Description
1	Search Box	Tap and enter a keyword to search for a destination.
2	Home	After setting your home address, tap to start navigation immediately.
3	Work	If no work address is set, tap to add one via Search, Favourites, or by selecting a point on the map.
4	Frequent Destinations	Tap to add a frequent destination via Search, Favourites, or by selecting a point on the map. Once configured, tap to start navigation immediately.
5	More	Tap to display additional feature options.
6	Settings	Tap to open the Settings screen. Refer to the Settings chapter for further details.
7	Charging Station Search	Tap to quickly locate nearby charging stations.
8	Map Orientation	Tap to change the map view mode: 2D North Up, 2D Heading Up, or 3D Heading Up.
9	Re-centre	This button appears after the map has been moved. If the map is left idle, it automatically centres on the vehicle. Tap this button to centre on the vehicle immediately.

The More Function panel allows you to adjust the volume and select which map layers are displayed.



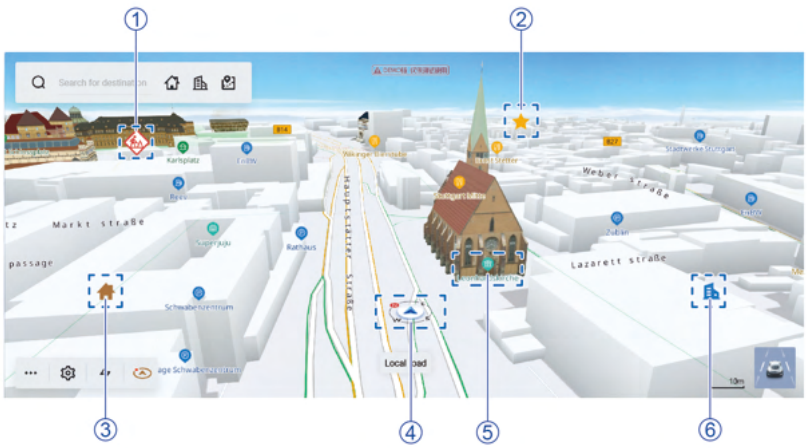
More Function Panel Description:

No.	Function	Description
1	Traffic	Turns the live traffic layer display on or off.
2	Range map	Turns the display of the current driving range on or off.
3	EV stations	Turns the display of charging station locations on or off.
4	Mute	Tap to mute immediately; tap again to restore the volume.
5	Volume slider	Tap or drag to adjust the navigation voice volume.
6	Free drive mode	When enabled, the Home screen displays lane information, the current road name, and motorway signposts.

2.2.2 Display Elements

The map displays natural landforms such as mountains, rivers, and green spaces in a visually intuitive manner. It clearly indicates the road network and traffic signs while overlaying 3D buildings and key landmarks. Additionally, category icons are utilised to display points of interest, including charging stations, restaurants, and attractions, thereby offering users comprehensive and precise travel guidance.

The vehicle's location is clearly marked on the map with a CCP icon, providing real-time location information. The system also presents live traffic information to assist in evading current events such as temporary road blockages or incident-caused congestion, ensuring smoother journeys. When Traffic is enabled, the map shows road status in different colours according to traffic density, with icons marking specific incidents, giving drivers a clear overview. Please note that availability of this feature may vary depending on the country or region.



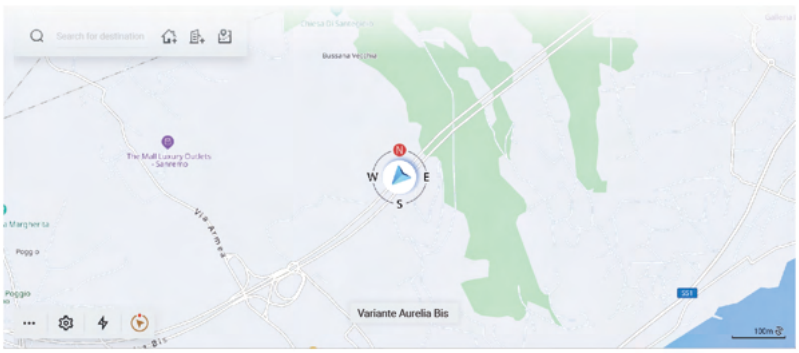
Detailed Description of Display Elements:

No.	Name	Description
1	Traffic Events	Tap to view details of the current traffic event(s).
2	Favourites	Tap to view your favourites and set as destination.
3	Home	Tap to view your home address or set as a destination.

No.	Name	Description
4	Points of Interest (POI)	Tap to view POI details and set as a destination.
5	Vehicle Position	Tap to view the vehicle's current position.
6	Work	Tap to view your work address or set it as a destination.

2.2.3 Current Road Name

In either Guidance or Free Drive Mode, the name of the current road is displayed at the bottom of the screen, providing clear and accurate location information.



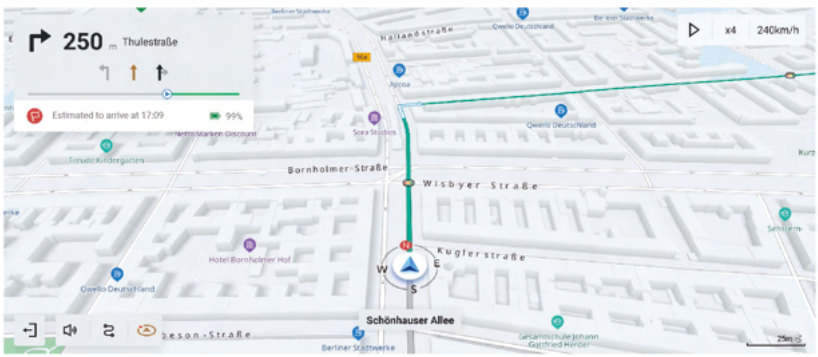
2.2.4 Lane Guidance

Whether in Guidance Mode or Free Drive Mode, the system displays the number of lanes and their directions, based on stored map data. Up to eight lanes can be displayed.

Free Drive Mode: Displays lane information only.



Guidance Mode: Lane information is colour-coded based on route direction. Gold lanes indicate recommended lanes; black (Day mode) or white (Night Mode) indicate available lanes; grey indicates lanes not available for use. This intuitive colour coding enables quick recognition of the correct and optimal lanes, reducing hesitation and uncertainty while driving.



2.2.5 Traffic Conditions and Road Signs

When Traffic is enabled, the map indicates road conditions using colour coding based on traffic density, and displays icons for specific incidents. By tapping the icons, details such as roadworks or closures can be viewed. This provides immediate awareness of traffic conditions.

Icons indicating speed cameras, road facilities and school zones ahead are also displayed for improved driving safety.



2.3 Map Operations

2.3.1 Single-Finger Tap

Tap a map element to view details (e.g., traffic events, POIs) or perform an action (e.g., change the route).

2.3.2 Single-Finger Double-Tap

Double-tap with one finger to zoom in; each double-tap increases the zoom level by one step.

2.3.3 Two-Finger Tap

Tap once with two fingers to zoom out; each two-finger tap decreases the zoom level by one step.

2.3.4 Single-Finger Drag/Swipe

Drag or swipe with one finger to pan the map.

2.3.5 Pinch to Zoom

Use a two-finger pinch-in or pinch-out gesture to zoom the map.

2.3.6 Two-Finger Rotation

To change the map orientation, place two fingers on the screen and rotate them in either a clockwise or counterclockwise direction.

2.3.7 Automatic Zoom

When automatic zoom is enabled in settings, the map scale adjusts dynamically according to junctions and guidance information.

Intelligent Zoom In: When approaching a turn or a complex junction, the map automatically zooms in, clearly showing the next manoeuvre to assist precise driving decisions.

Intelligent Zoom Out: If the next turn is further ahead, the map zooms out to provide a broader view, offering early awareness of upcoming road conditions.

If preferred, you may disable automatic zoom in the settings and adjust the map scale manually according to your needs.

2.4 Voice Recognition

Our navigation system supports voice recognition functionality, allowing you to perform various operations through voice commands, thereby reducing distractions while driving and enhancing road safety. The content in section 2.4.1 is a list of commonly used voice commands, helping you quickly understand and use the voice control function.

2.4.1 Voice Recognition List

Module	Function		Command
Current Location Positioning	Where am I	Where am I	what is our current location
Search	Navigation Intent	I want to navigate	I need navigation
	Navigate to <home/ company>	Navigate home	Go home
		Navigate to company	direct me to office
	Navigate to POI	(Navigate to/ Search for) <POI>	Drive to Birmingham
	Navigate to POI Category	(Navigate to/ Search for) <POI category>	Direct me to the hotel
	Navigate to nearby POI	(Navigate to/ Search for) nearby <POI>	Take me to the nearest hotel
	Navigate to en route POI	(Navigate to/ Search for) en route <POI>	Find a hotel on the way

Module	Function		Command
	Search Result Selection	<Selection value>th one	Select option 1
		Last one	The last one
		Previous page	go to previous page
		Next page	Go to next page
		Page <selection value>	Page four
		Last page	Go to the last page
Route	Route Planning Result Selection	<Selection value>th one	Select route number 2
	Route Refresh	Route Refresh	Refresh the route
	<Route preference> settings	Set route preference to smart recommendatio n	Change the route preference to intelligent recommendation
		Set route preference to shortest distance	Choose the shortest distance
		Set route preference to shortest time	Switch to fastest route
		Set route preference to highway priority	Set the route preference to highway priority
		Set route preference to	Change the route preference to avoid traffic

Module	Function		Command
		avoid congestion	
		Set route preference to avoid highway	avoid tollway route
Waypoints	Add waypoint	Add <POI> as waypoint	Add Starbucks as a waypoint
		Add waypoint	Add a waypoint to the route
	Delete waypoint	Delete waypoint	Delete this waypoint
		Delete all waypoints	Remove all waypoints on this route
Navigation Switch	Start navigation	Start navigation	Begin navigate
	Cancel navigation	Cancel navigation	End navigation
Display	Map Scale Control	Zoom in map	Enlarge the map
		Zoom out map	make the map smaller
	View Switch	3D view	Set map mode to 3D
		2D view	Set the map view to 2D
		Heading up	Adjust the map view to vehicle face up
		North Up	Switch to a north-facing view
Announcement	Announcement Mode Switch	Detailed announcement	Switch to detailed reporting mode
		Concise announcement	Switch to concise reporting mode

Module	Function		Command
		Announcement mute	Mute the announcements
Favorites	Open favorites	Open favorites	Open navigation bookmarks
	Favorite current location	Favorite current location	Save the current location to favorites
	Favorites Management	Set current location as home	Set the current location as home
		Set <POI> as home	Set the All Season Hotel as my home
		Delete home location	Delete the home location
		Set current location as company	Set the current location as my company
		Set <POI> as company	Set Guangdian Garden Subway Station as the company location
		Delete company location	Delete the company location
Query	Query remaining time	Query remaining time	How many minutes until we arrive
	Query remaining distance	Query remaining distance	How far is it from the destination
	Traffic Query	Query real-time traffic	Check real-time traffic conditions

Module	Function		Command
Map Full Screen	Open full screen map	Open full screen map	Open the map in full screen
	Close full screen map	Close full screen map	Exit full-screen map mode

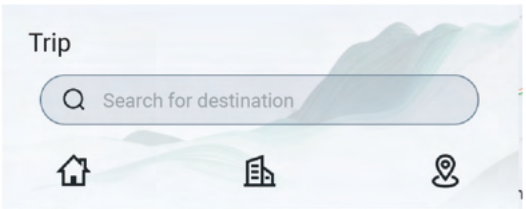
3 On-road Navigation

3.1 Search

3.1.1 Smart Search

Tap the search box on the Map Home Screen or the Trip Widget to open the search page.





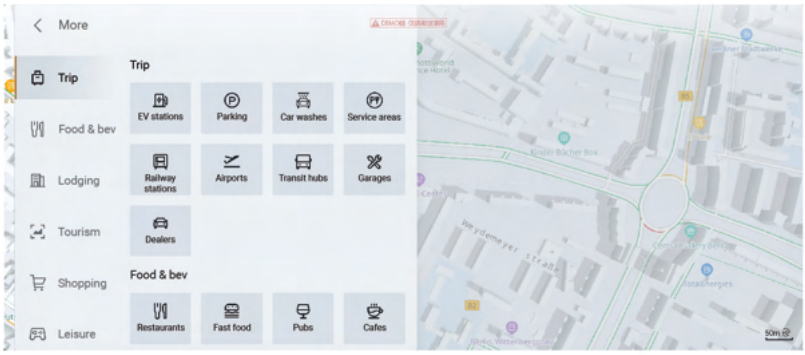
Once navigation guidance has begun, tap the search button in the bottom-left corner to access the search page.



Description of the Search Page:

No.	Name	Description
1	Quick Category Search	Tap a category button to view a list of relevant destinations.
2	Search Box	Tap the search box and enter a keyword to search for destinations.
3	History	The left-hand list displays your recent searches.
	Fav Locations Fav Routes	Tap here to switch between your favourite places and routes.

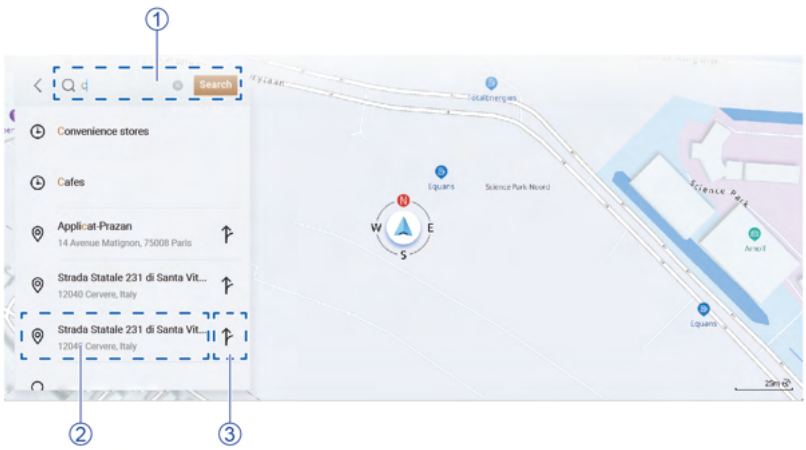
Tap the "More" button in the Quick Category Search area to display additional categories



3.1.2 Search Suggestions

After entering a destination or POI name in the search box, the system will display matching search suggestions.

The input field supports one-touch clearing of all text. Search suggestions incorporate your previous entries and destinations, showing recommended categories and POIs. If a desired POI appears, you can tap it to calculate the route or view its details. If a preferred category is displayed, you may search it with a single tap. This reduces input time and maximises driving safety.

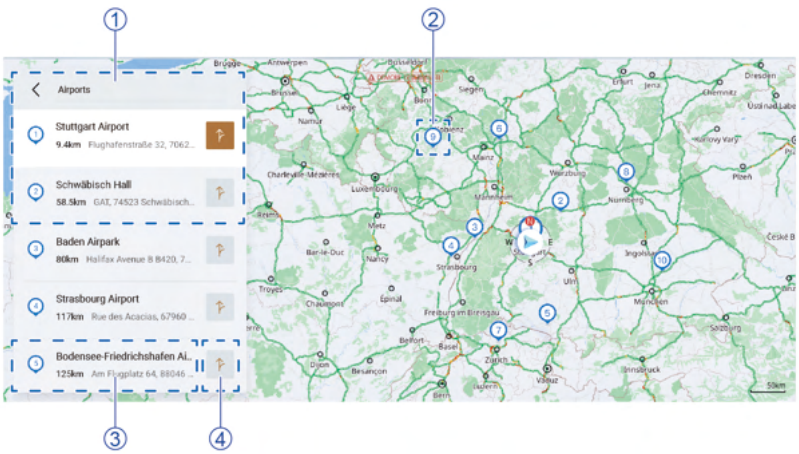


Description of the Search Suggestions:

No.	Name	Description
1	Search	After entering a keyword, Tap Search to display a list of matching results.
2	View Details	Tap any suggestion to see detailed information for that POI.
3	Route Planning	Tap "Route Planning" icon to set the selected POI as the destination and automatically calculate the route.

3.1.3 Search Results

On the Search Results page, a list of POIs appears on the left, and their locations are highlighted on the map to the right.



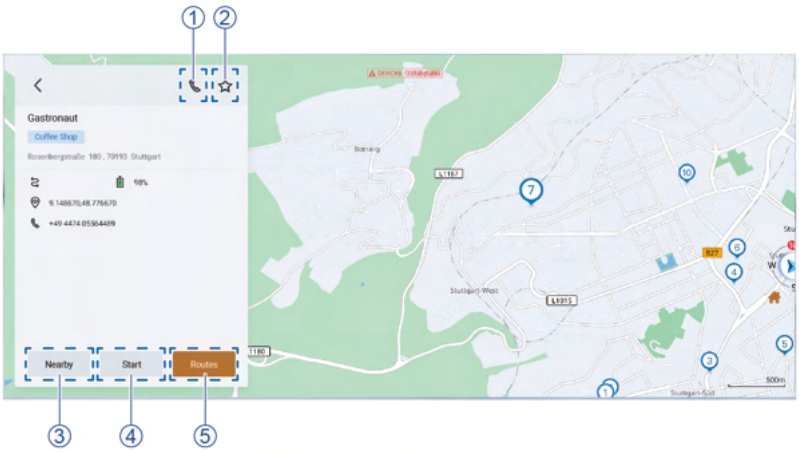
Description of the Search Results:

No.	Name	Description
1	Selection State	By default, the first POI in the list is selected. Tap another POI to change the selection.
2	POI Location Marker	The location of the selected POI is highlighted on the map for quick identification.
3	View Details	Tap a POI in the list to view its detailed information.

No.	Name	Description
4	Route Planning	Tap the "Route Planning" icon to set the selected POI as the destination and automatically calculate the route.

3.1.4 Search Result Details

The Search Results Details page displays comprehensive information for the selected POI, including its name, address, route information, latitude and longitude, and other relevant data.



Description of the Search Result Details:

No.	Name	Description
1	Calling	If a phone number is available for the POI, a "Call" button appears. Tap it to make a call via Bluetooth.
2	Favourites	Tap to add the POI to your Favourites list.
3	Nearby	Tap to search for POIs around the selected POI.
4	Start	Tap to set the selected POI as the destination and start navigation immediately.

No.	Name	Description
5	Routes	Tap to set the selected POI as the destination and calculate a route.

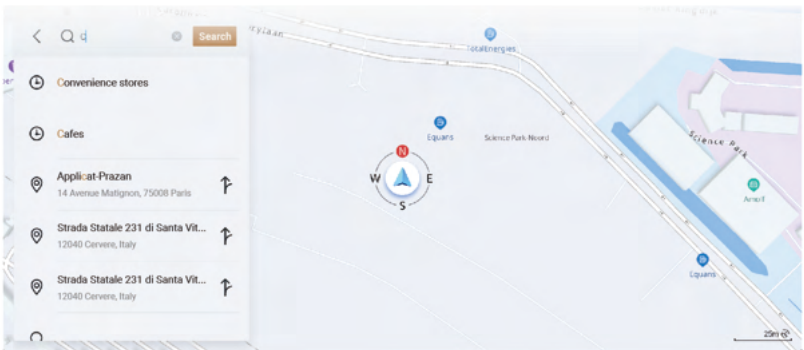
3.2 Route Planning

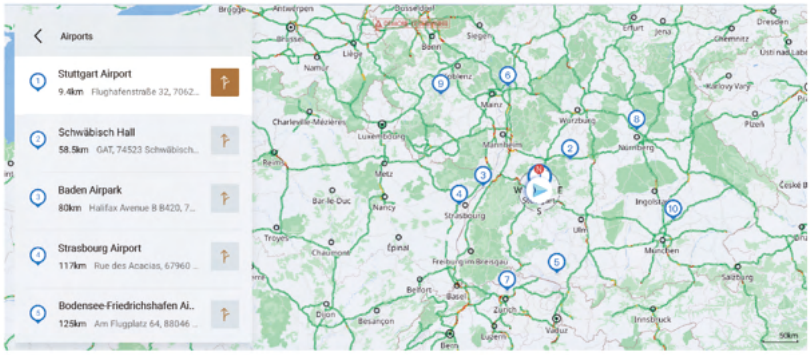
3.2.1 Setting a Destination

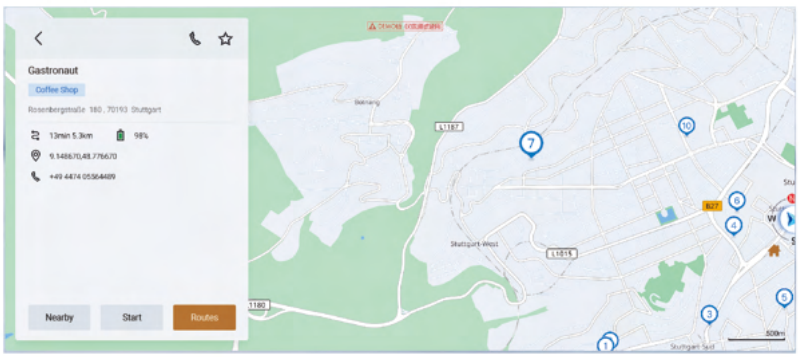
Search for a Place

You can search for your chosen destination by entering keywords in the search box or tapping shortcut categories. Once a desired destination is found, simply tap “Navigate” from the search results or select “Plan Route” / “Start Navigation” from the POI details page.



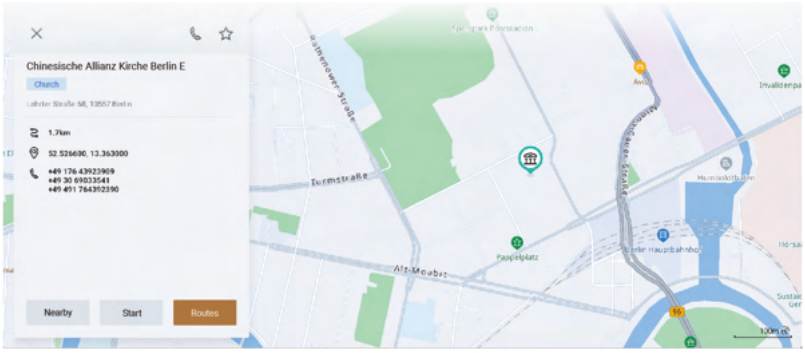






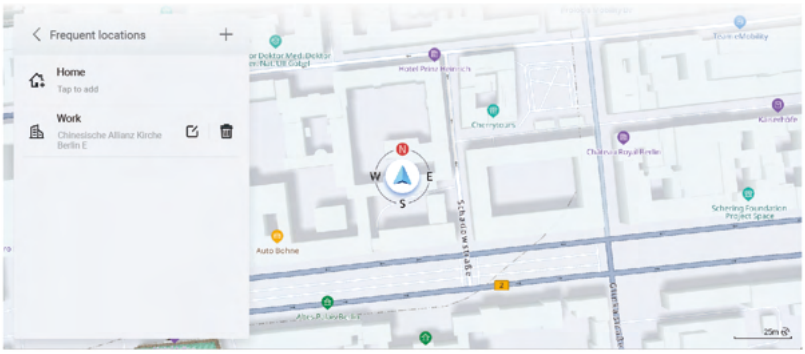
Pick a Destination on the Map

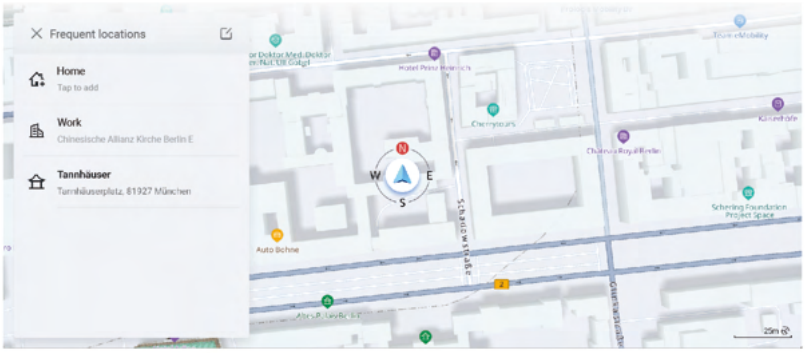
Browse the map and tap or long-press any point of interest (POI) to to select it as your destination. Detailed information including name, address, and distance, is displayed. is shown, and navigation can be initiated directly from the picked location. Whether during guidance or when changing destinations, selecting directly from the map ensures flexible and convenient navigation.



Frequently Visited Places

You can set “Home” and “Work” for instant guidance, and add other frequently visited places using the corresponding icon on the home screen via search directly on the map. Next time, simply select your destination from the Frequently Visited Places list to start guidance quickly.

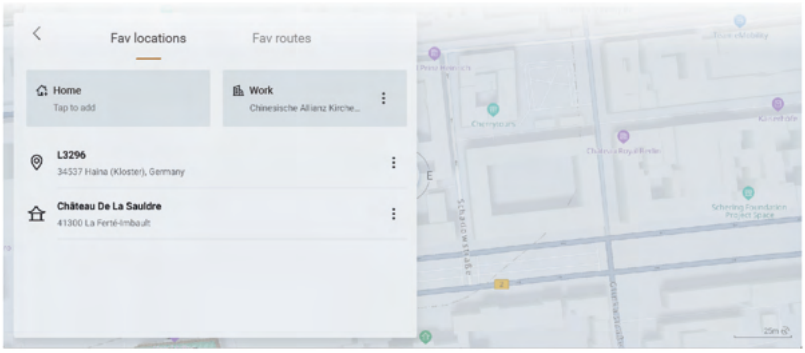




Favourite Places/Routes

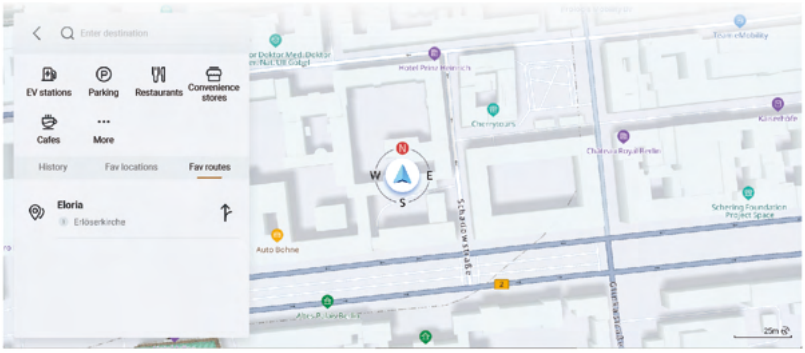
When you wish to save a location, tap the “Favourite” button in the details page. Saved places can later be accessed from the Favourites menu and set as destinations.

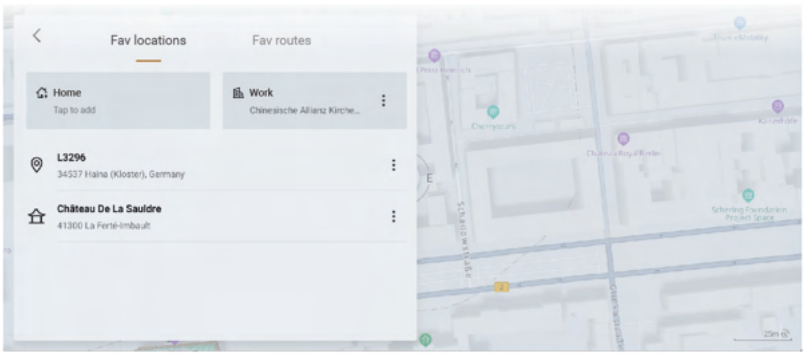




Routes with added waypoints can also be saved by tapping the icon on the route selection page. Saved routes are accessible for convenient guidance initiation through the Stored Routes section on the Search home page or in the Settings menu.

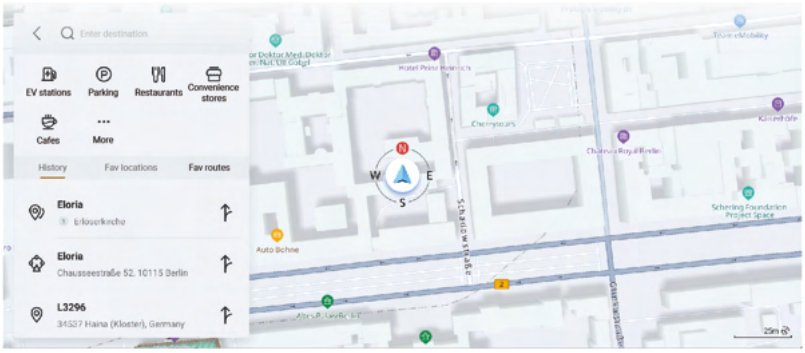






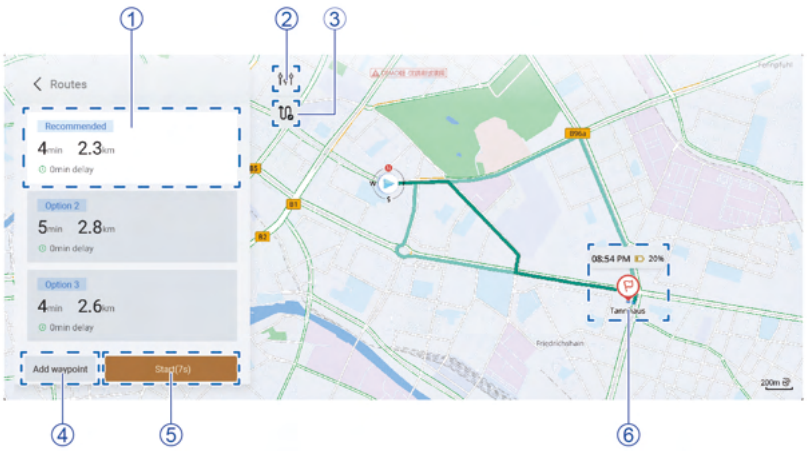
Select from History

Use the History list on the Search home page to revisit previously navigated places, view details or start navigation directly. This function enables quick navigation to previously visited locations.



3.2.2 Route Selection

Once a destination is set, the system will automatically calculate a recommended route and provide up to three alternative options.



Description of Route Selection:

No.	Name	Description
1	Route Information Panel	Displays detailed information about the current route, including travel time, distance, anticipated congestion delays, and road classifications.

No.	Name	Description
2	Route Preferences	Tap to configure route preference settings .
3	Edit Route	Tap to open the Route Editing screen and modify the planned route.
4	Add Waypoint	Tap to add a waypoint via Smart Search.
5	Start Navigation	Tap to start guidance along the selected route.
6	Arrival Information	Displays the estimated remaining battery charge upon arrival and the remaining travel time.

3.2.3 Route Editing

On the Route Editing page, you can add, remove or reorder waypoints, and change the final destination.



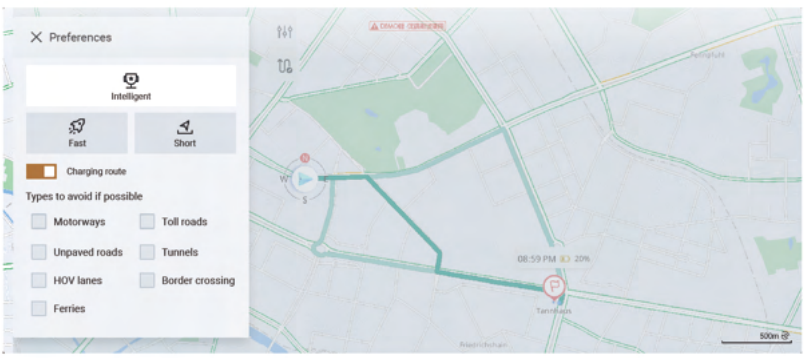
Description of Route Editing:

No.	Name	Description
1	Starting Point	The default starting point is the current location of the vehicle.
2	Existing Waypoint(s)	Tap a waypoint entry to edit or delete it.

No.	Name	Description
3	Add Waypoint	Tap the input field to add a new waypoint to the route.
4	Change Destination	Tap the destination field to modify it.
5	Reorder Waypoints	Press and hold this button, then drag to reorder the waypoints.
6	Confirm	Tap to recalculate the route using the updated waypoints and destination.

3.2.4 Route Preferences

In the Route Preferences screen, you can modify the routing mode (eg. fastest,shortest), enable routing via charging stations, and set avoidances for specific road types.



3.3 Route Guidance

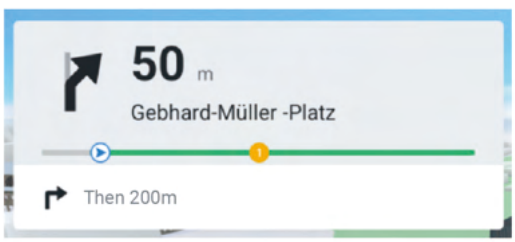
3.3.1 Guidance Instructions

Once navigation begins, the system displays route guidance information, such as the manoeuvring arrow, remaining distance, remaining time, current road name, and Estimated Time of Arrival (ETA) and Remaining Travel Time (RTT).



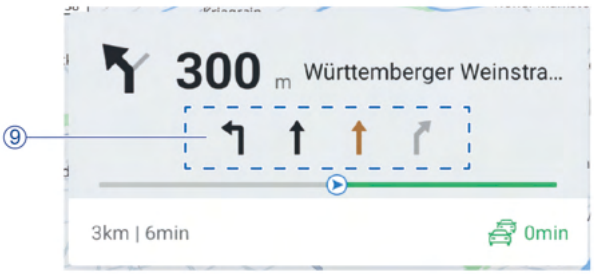


When two guided destinations are very close, the panel prioritises showing the farther destination and avoid missing turns in complex or obstructed roads.



When online, the system generates a high-precision vector model of the road layout, presenting enlarged junction views with dynamic lane markings, turn arrows, and recommended driving routes, helping drivers anticipate road layouts and avoid missed turns on complex or obstructed roads.





Description of Route Guidance:

No.	Name	Description
1	Route Information	Displays the remaining distance, remaining time, traffic delays, ETA, and battery status.
2	Exit Navigation	Tap to exit navigation and end the current guidance.
3	Mute / Unmute	Tap to toggle voice guidance on or off.
4	Full-Route Overview	Tap to view the entire route.
5	Change View	Tap to switch between 2D North-Up, 2D Heading-Up, and 3D Heading Up.

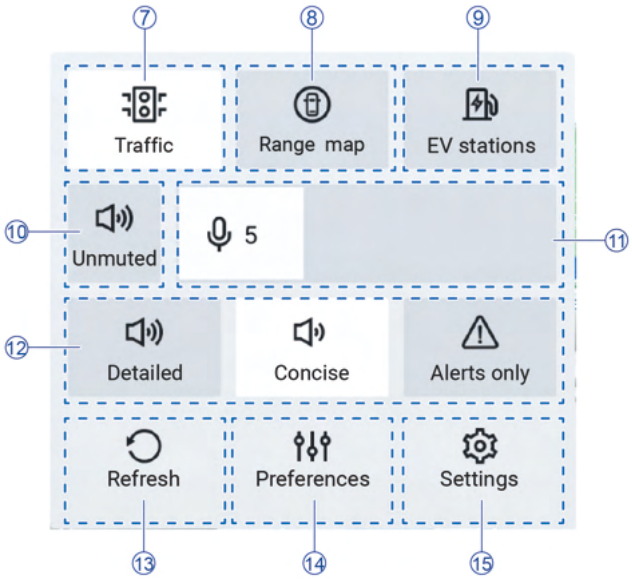
No.	Name	Description
6	Guidance Information	Displays the manoeuvre arrow, distance to the next turn, and road name.
7	Traffic Bar	Displays real-time traffic information along the route.
8	Next Manoeuvre	When consecutive manoeuvres are upcoming, the panel will display the next manoeuvre.
9	Lane Guidance	Lane guidance displays upcoming lane markings: grey arrows for unavailable lanes, black (Day Mode)/white (Night Mode) arrows for available lanes, and gold arrows for the recommended lane.

On the Route Guidance screen, tap to reveal shortcut controls.

For safety do not operate the navigation application while driving. If adjustment is necessary, park the vehicle in a safe location first.



Additional functions will be displayed on the panel.

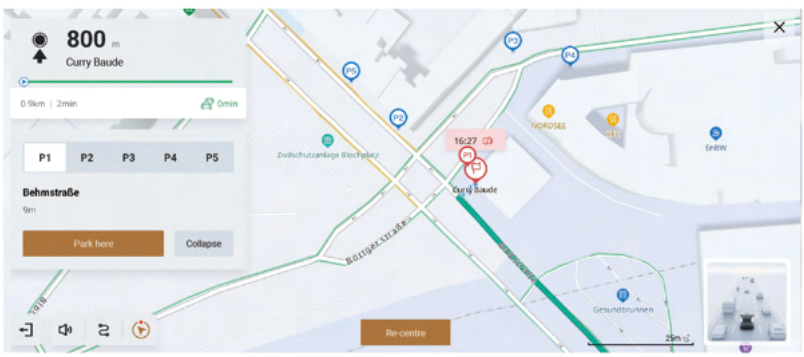


In-Guidance Operation Shortcuts Description:

No.	Name	Description
1	Exit Navigation	Tap to exit navigation and end the current guidance.
2	More Functions	Tap to open additional shortcuts.
3	Search	Tap to open the Search screen.
4	Full-Route Overview	Tap to view the entire route.
5	Change View	Tap to switch between 2D North-Up, 2D Heading-Up, and 3D Heading Up.
6	Re-centre	Tap to re-centre the map on vehicle's current location. The map will also automatically re-centre after a period of inactivity.
7	Traffic	Toggle the display of real-time traffic on the map.

No.	Name	Description
8	Range map	Toggle the display of the remaining driving range.
9	EV Stations	Toggle the display of charging stations on the map.
10	Mute / Unmute	Tap to mute or unmute voice guidance.
11	Volume Bar	Tap or drag the slider to adjust guidance volume.
12	Voice Guidance Mode	Switch between Detailed, Concise, or Warnings-only announcements. Voice Guidance Mode can be switched at any time.
13	Refresh	Tap to recalculate the route.
14	Preferences	Tap to open Route Preferences; see the "Route Preferences" chapter.
15	Settings	Tap to open the Settings screen; see the "Settings" section.

During navigation, alerts are provided for speed cameras, roadside facilities, and school zones to enhance driving safety. As the destination is approached, nearby vehicle parks are recommended and displayed with icons for easy identification.



If the “Arrival Summary” option is enabled, the system displays destination details and total trip time once navigation is complete.



Map display elements are carefully designed for navigation view to improve route and traffic comprehension. Travelled routes are shown in grey to distinguish them from upcoming sections; junction arrows are highlighted to avoid missed turns; traffic events, such as roadworks, are displayed with icons for early awareness.

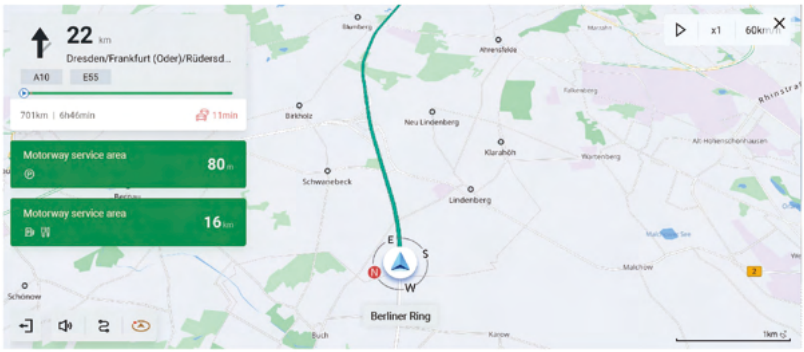


To support concentration and enhance safety, the system provides detailed voice guidance to reduce the likelihood of missing junctions. Voice guidance supports route instructions, speed camera alerts, roundabout yield warnings, traffic conditions and motorway information. Drivers may select preferred voice modes – detailed, concise, chime-only, or mute – and adjust volume for a personalised navigation experience.

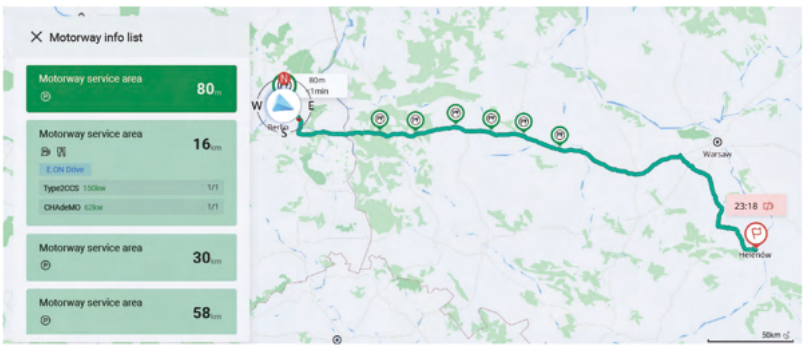
3.3.2 Motorway Information List

While driving on motorways, upcoming service stations and toll stations are displayed on the main map. In Guidance Mode, tap

service stations or toll stations to obtain relevant information along the motorways.



A list view presents upcoming toll stations and service stations, including the facilities such as charging stations, toilets, restaurants, shops, hotels, vehicle service centres, ATMs and cafés. When online, the system displays supported providers, connector types, charging power and related details-charging power , and other relevant details of the charging station.



3.3.3 Route Update

During guidance, the route automatically updates under the following circumstances.

1. Deviation

   If the vehicle deviates beyond a certain range from the planned route, rerouting is triggered and a new route is calculated from the current location.

2. Traffic Update

   When online, the system evaluates real-time traffic conditions ahead to determine whether a more efficient route to the destination is available. If a better route is found, it either replaces the current route automatically or prompt the driver to confirm, depending on rerouting settings.

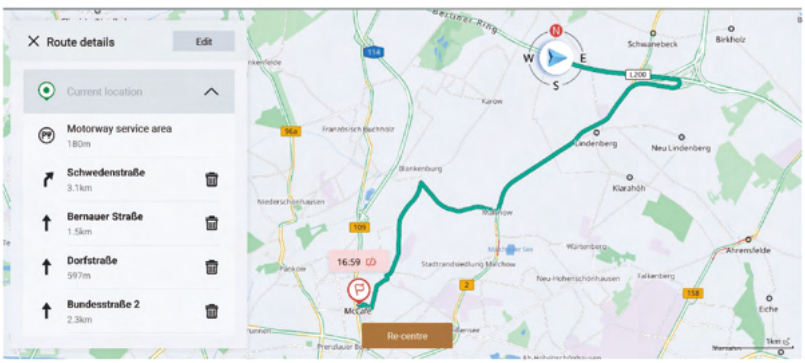
   The navigation system provides live traffic updates to support timely driving decisions, helping to avoid congestion and road closures by selecting an optimal route. When congestion is detected ahead, a tag is displayed on the map, showing the distance and estimated time to pass through the congested section.

3. Network Status Update

   When offline, the system calculates an offline route. Once reconnected, the offline route is automatically replaced with an online route, ensuring guidance is updated.

   These automatic route update functions ensure that drivers receive the optimal route promptly in the event of unexpected changes or traffic disruptions, maintaining a smooth journey.

   If unsatisfied with the current route, drivers may refresh via the “More” menu or select the route information panel to access route details and manually adjust the route.



3.3.4 Route Recovery

If the system restarts or powers back on during guidance, reopening the map triggers route recovery. A message appears, asking whether to resume the previous navigation. Selecting “Confirm” recalculates

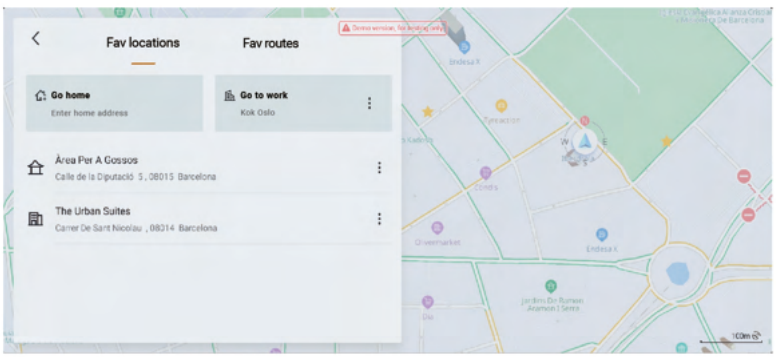
a route from the new starting point to the original waypoints and destination; selecting “Cancel” ends the previous navigation.

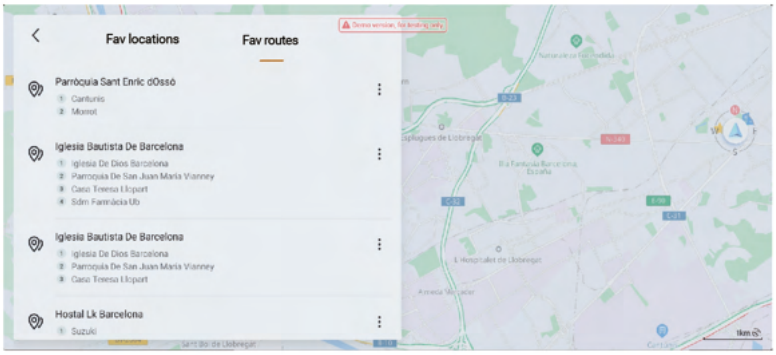


3.4 Favourites

On the "Favourites" page, you can view your favourite locations and routes.

Favourite locations include Home, Work, and any other places you have added. Favourite routes list the driving routes you have previously saved.

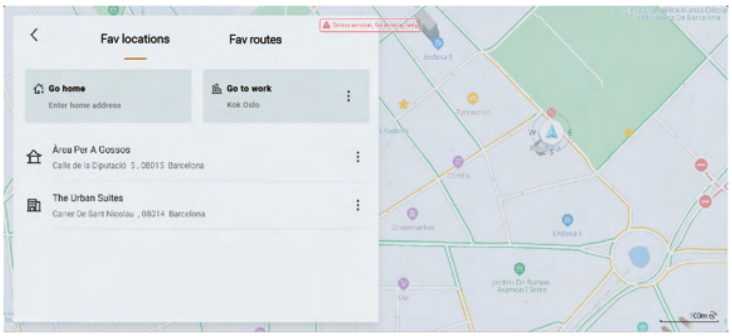




3.4.1 Setting a Home or Work Address

You can set a Home or Work address on the "Favourites" page:

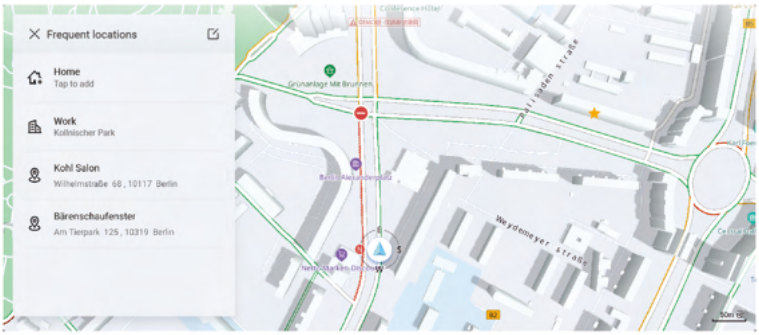
1. On the "Favourites" page, add a Home or Work address.



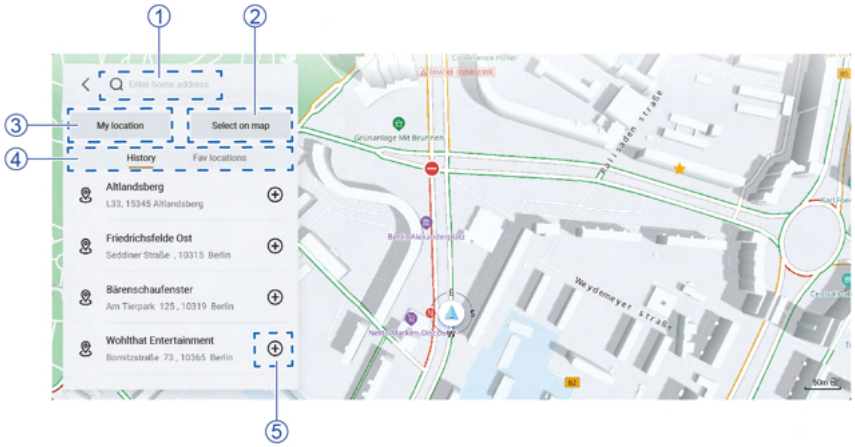
2. In the Widget at the top-left of the navigation home screen, tap the icon to set "Home or Work" button.



3. On the 'Frequent locations' page, tap to add a Home or Work address.



After completing any of the above steps, the Add Home or Work Address page opens.

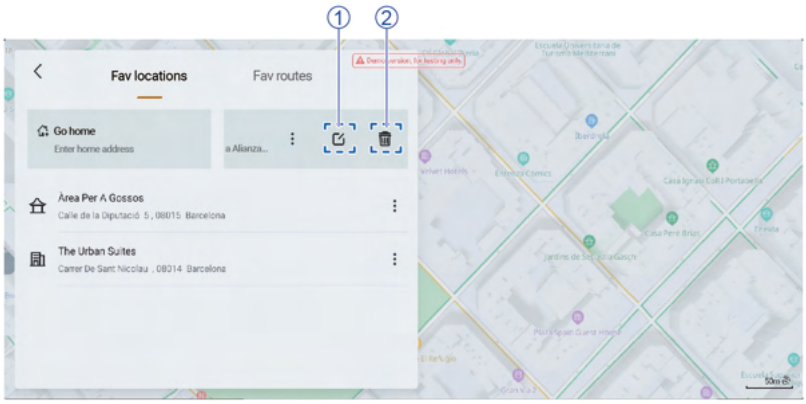


Description of Adding a Home or Work Address:

No.	Name	Description
1	Search Box	Tap this field and enter keywords to search for a Home or Work address.
2	Select on Map	Tap to open the map selection screen and choose a location to set as your Home or Work address.
3	My Location	Tap to set the vehicle's current location as the Home or Work address.
4	History/Fav Locations	Tap to toggle between the History list and the Favourites list.
5	Add	Select a location from the History or Favourites list then tap this button to set it as your Home or Work address.

3.4.2 Editing a Home or Work Address

On the Favourites page, swipe left on the Home or Work address entry to reveal editing options.



Description of Editing a Home or Work Address:

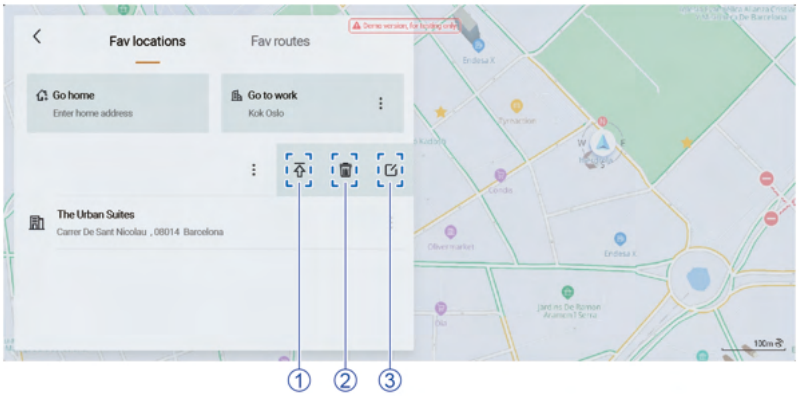
No.	Name	Description
1	Edit Home or Work Address	Tap to modify the selected the Home or address. You will be taken to the address selection screen.
2	Delete Home or Work Address	Tap to remove the Home or Work address.

3.4.3 Editing Favourite Locations

Favourite locations are stored in this list for quick access.

Tap a favourite location to view its details and see it on the map.

To edit a favourite location. swipe left on its entry in the list to reveal editing options.



Detailed Instructions for Editing Favourite Locations:

No.	Name	Description
1	Pin/Unpin	Tap to pin a favourite location to the top of the list, or tap again to unpin it.
2	Delete	Tap to delete the selected favourite location from the list.
3	Edit	Tap to rename the selected favourite location for easier identification.

3.4.4 Favourite Routes

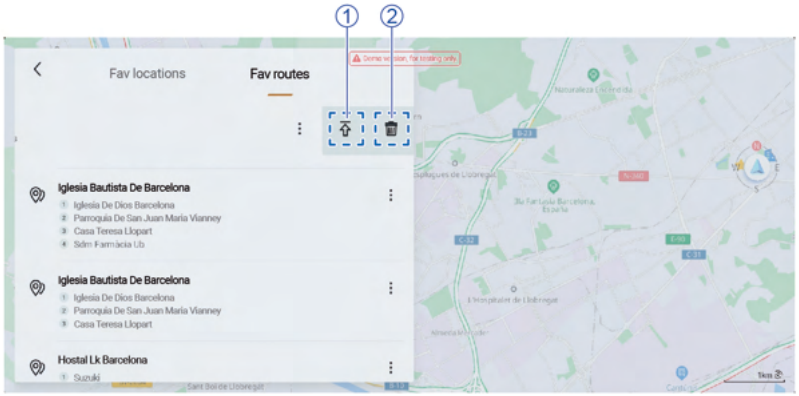
Favourite routes allow quick access to and navigation of your most frequently used routes. To enhance your driving experience, the system enables you to save and retrieve these routes effortlessly.

Favourite routes are stored in this list for quick access.

Tap a favourite route to calculate a route using its destination, waypoints, and the vehicle's current location.

Favourite routes can be edited manually—swipe left on a saved route to reveal editing options.

Tap a Favourite location to set it as the destination or waypoint, using your current location as the starting point.



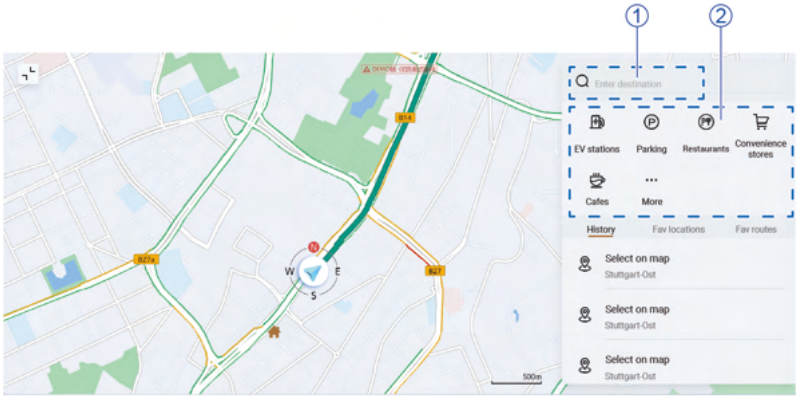
Editing Favourite Route Details:

No.	Name	Description
1	Pin / Unpin	Tap to pin a favourite route to the top of the list, or tap again to unpin it.
2	Delete Favourite Route	Tap this button to remove the favourite route from the list.

3.5 Secondary Display Map

3.5.1 Secondary Display Map Home Screen

The companion map display provides search functionality. Locations found can be sent to the vehicle's primary navigation system for route guidance.

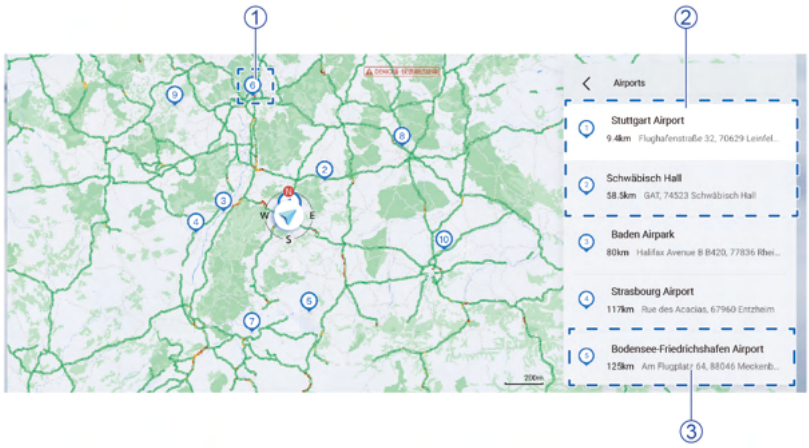


Functions of the Secondary Display Map:

No.	Name	Description
1	Search Box	Tap the Search Box and enter keywords to search for a destination.
2	Quick Category Search	Tap a category button to quickly find a destination.

3.5.2 Secondary Display Map – Search Results List

In the search results list, points of Interest (POIs) are displayed on the right-hand side, with a map on the left showing the location of each POI.

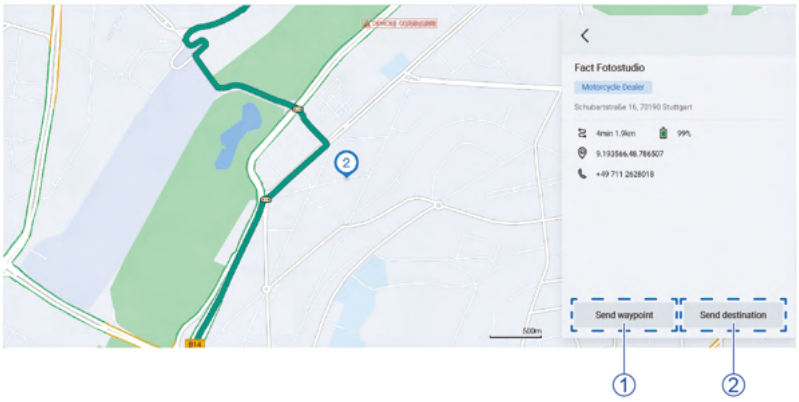


Additional Settings Details:

No.	Name	Description
1	POI Marker	Display a marker on the map for the corresponding search result, helping users easily locate the POI.
2	Selection State	The first search result is selected by default. Tap to select a different result if required.
3	View Details	Tap the selected list item to view detailed information for the POI.

3.5.3 Secondary Display Map – Search Result Details

The search results screen provides detailed information about the point of interest (POI), including its name, address, route guidance, as well as its latitude and longitude.



Description of Search Result Details:

No.	Name	Description
1	Send Waypoint	Tap "Send Waypoint" to send the POI to the primary navigation system as a waypoint.
2	Send Destination	Tap "Send Destination"to send the POI as the destination. The primary system sets it as the destination and automatically calculates the route.

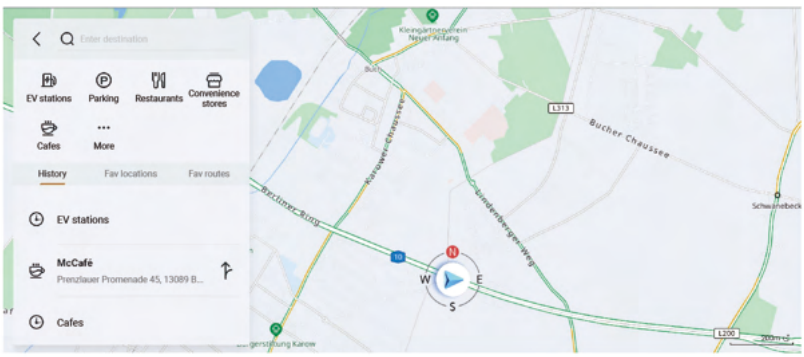
3.6 Going to Charging Stations

The navigation system provides several functions to help you find the most convenient charging station with ease.

3.6.1 Searching for Charging Stations

To alleviate range anxiety, a “Searching for Charging Stations” shortcut is available on the home screen of the navigation system. When no route is active, the main map permanently displays a Charging Station shortcut, enabling the driver to locate a station quickly and easily. Alternatively, you may search for charging stations through the “Frequently Used Categories” menu.

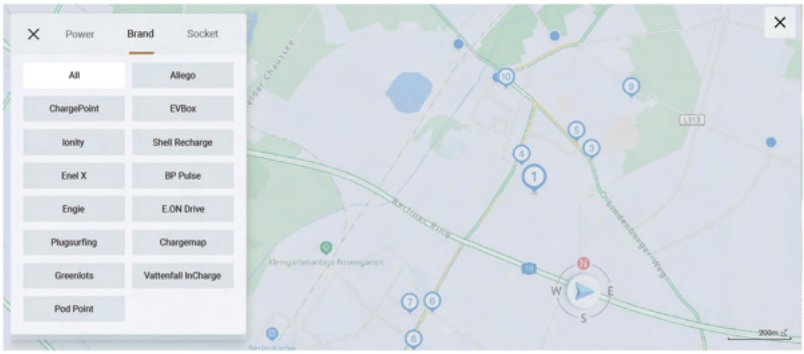




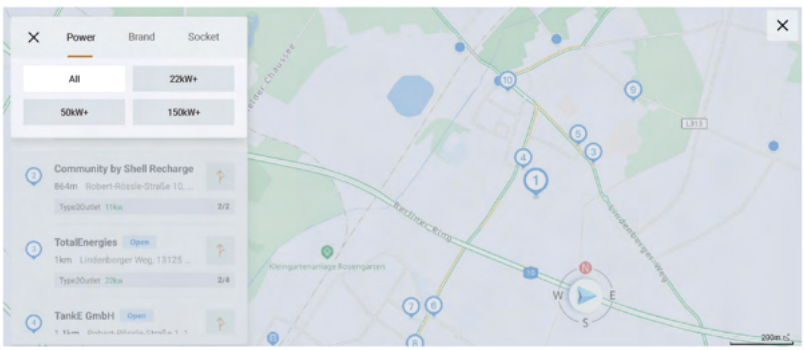
3.6.2 Charging Station Filters

When searching for charging stations, the navigation system offers various filter options to help narrow down results according to personal preferences and locate the most convenient station.

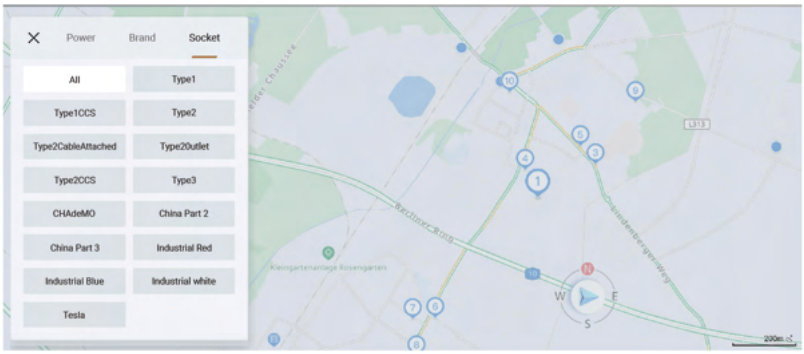
Charging Provider: Select a preferred charging provider, such as Allego, ChargePoint, EVBox, or others.



Charging Power: Different stations may support different charging speeds. You may select charging stations according to the required power output.



Connector Type: To ensure compatibility with your vehicle, you may filter by connector type, such as Type 2 or Type 2 CCS.

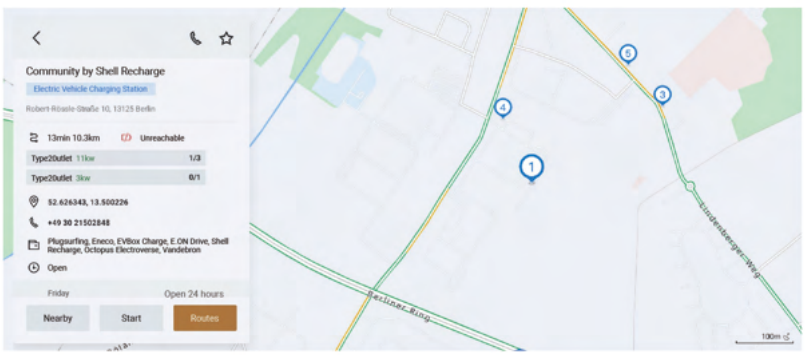


3.6.3 Charging Station Details

The feature of searching for charging stations in MXNAVI Navigation provides comprehensive information, helping drivers make informed charging decisions.

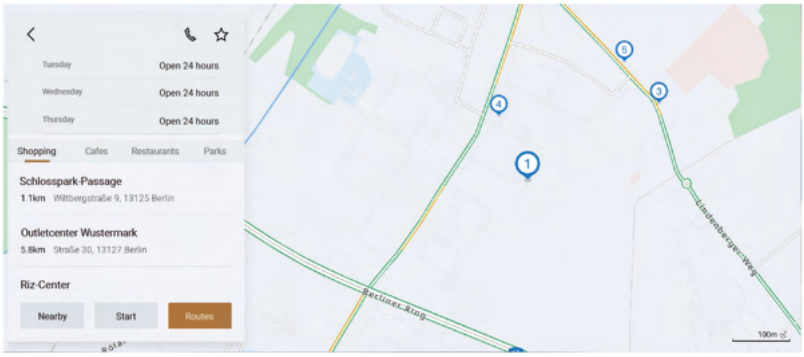
When offline, the system displays basic charging station details, including the station's name and address.

When online, the system displays more detailed and dynamic information about charging stations. On the station list and detail interfaces, information such as operating status, total number of chargers, availability, connector types and charging power is provided.



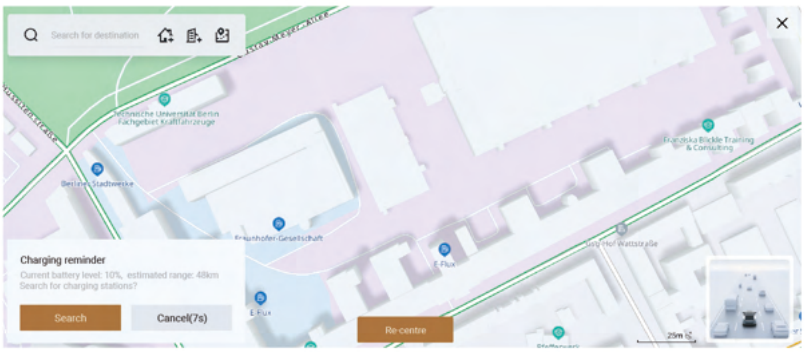
The detail page also shows nearby amenities such as shopping centres, cafés, restaurants and parks. This allows drivers to make use of other services while waiting for charging to complete. You may

also use the Nearby Search function to explore additional points of interest.



3.6.4 Low Battery Warning

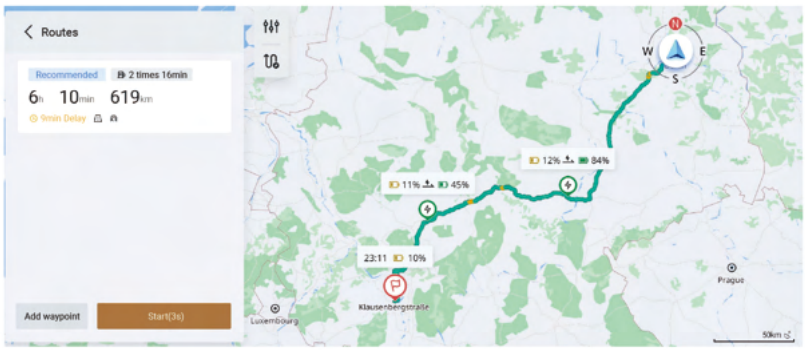
When the battery level drops below a certain threshold, the system issues a low battery warning via a pop-up message, from which nearby charging stations can be searched to ensure timely charging.



3.6.5 Smart Charging Planning

Within the charging settings of the navigation system, you can define your preferred state of charge at the destination, based on your level of range anxiety. When planning a route, the system automatically checks whether the destination can be reached based on the vehicle's remaining charge and user preferences. If the predicted charge upon arrival falls below the preferred threshold, the system automatically suggests a charging plan.

On the route selection screen, details such as the suggested times of charging, recommended charge levels and estimated charging duration are displayed, helping drivers schedule charging and ensuring peace of mind during the journey.

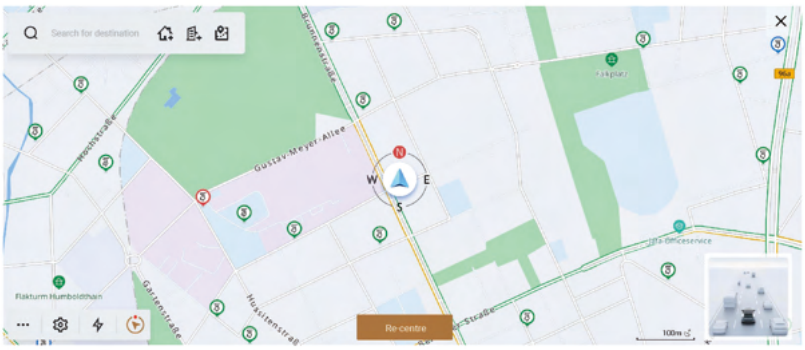


Additionally, the navigation system continuously monitors changes in battery level during guidance. If it detects that the remaining charge is insufficient to reach the destination, or conversely that charging is unnecessary, the system recalculates the route in the background and advises whether to add or remove a charging station in the route, ensuring the journey can be completed smoothly.

3.6.6 Charging Station Map Icon Legend:

To quickly view nearby charging stations and check their availability and power, tap the Charging Station Map icon from the More menu on the map home screen or the navigation page.

When enabled, the Charging Station Map displays all charging stations within the displayed area, using different icons for their current status. Routes can be planned via the selected charging station as required.

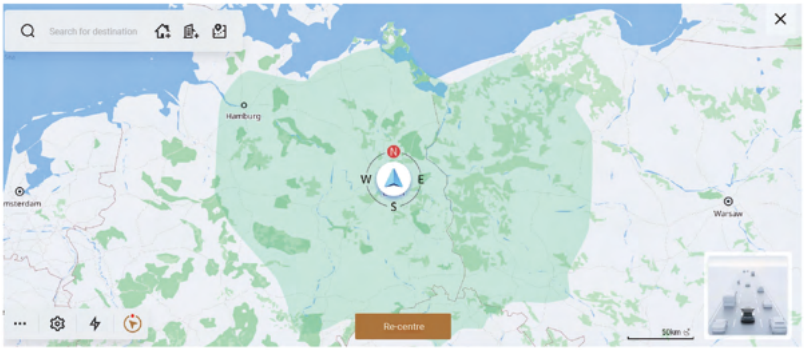


Charging Station Map :

Functional Icons	Description
	Fast charging – available.
	Fast charging – unavailable.
	Fast charging – availability unknown.
	Slow charging – available.
	Slow charging – unavailable.
	Slow charging – availability unknown.

3.6.7 Maximum Driving Range Check

To check the maximum range for the current battery level, open “Driving Range” from the More menu on the map or navigation page to view the estimated range.


Search for destination
Hamburg
W
E
S
Warsaw
Re-centre

4 Reference Guide

From the Home Screen or the Guidance Screen, tap Settings to open the Route Settings page, where you can configure navigation-related options.

4.1 Route Settings

Route Settings include: Route Preferences, Avoid Road Types, Auto Rerouting, Free Drive Mode, and Destination Parking Suggestions.





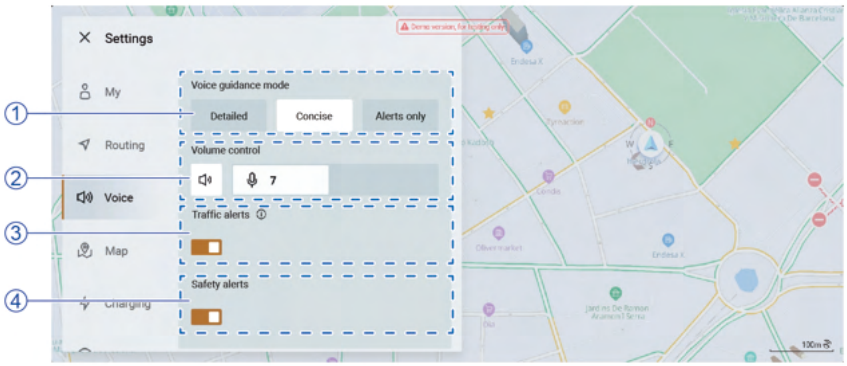
Description of Route Settings:

No.	Name	Description
1	Route Preferences	The available route preference options are: Smart Recommendation, Fastest Route, and Shortest Route.
2	Avoid Road Types	Configurable road types to avoid include: motorways, toll roads, unpaved roads, tunnels, HOV lanes, border areas, and ferries.
3	Auto Rerouting	When enabled, the system automatically switches to a superior route as soon as one becomes available. When disabled, the system prompts you to confirm a route change; if accepted, navigation updates to the new route, otherwise, it continues along the current route.
4	Free Drive Mode	When enabled, the map home screen displays lane information, the current road name, and motorway details. When disabled, this information is hidden.
5	Destination Parking Suggestions	When enabled, the system recommends nearby vehicle parks shortly before arrival. When disabled, no car park recommendations are provided.

No.	Name	Description
6	Destination Arrival Trip Display	When enabled, the system displays the journey details when you reach your destination. When disabled, the journey details will not be displayed.

4.2 Voice Guidance Settings

Voice guidance settings include: Voice Guidance Mode, Volume Control, Traffic Alerts, and Safety Alerts.



Detailed Description of Voice Guidance Settings:

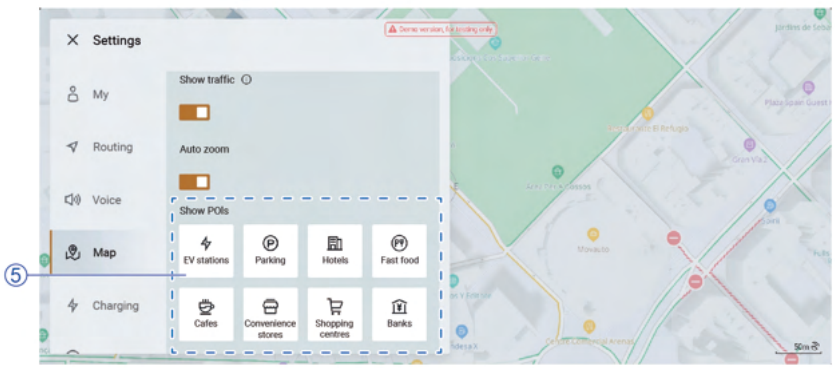
No.	Name	Description
1	Voice Guidance Mode	Select Voice Guidance Mode from: Detailed, Concise, and Alerts-Only.
2	Volume Control	Tap or drag the volume slider to adjust guidance volume.
3	Traffic Alerts	When enabled, voice guidance includes traffic alerts. Toggle this option as needed.

No.	Name	Description
4	Safety Alerts	When enabled, voice guidance includes safety alerts.

4.3 Map Settings

Map Settings include: 3D building display toggle, favourites display toggle, traffic information toggle, auto-zoom scale toggle, and points-of-interest (POI) category display settings.





Detailed Description of Map settings:

No.	Name	Description
1	3D Building Display Toggle	Enable or disables the display of 3D buildings on the map. Toggle as required.

No.	Name	Description
2	Favourites Display Toggle	Enables or disables the display of saved favourites on the map. Toggle as required.
3	Live-Traffic	Enables or disables the display of real-time traffic information on the map. Toggle as required.
4	Auto-Zoom-Level Toggle	When enabled, the system automatically adjusts the map scale to an optimal level. Toggle as required.
5	POI Category Display Settings	Select which categories of POIs to display on the map (e.g., charging stations, vehicle parks, hotels, fast food outlets, cafés, convenience stores, shopping centres, banks, etc.). Toggle each category as required.

4.4 Charging Settings

The "Charging Settings" menu allows you to configure your vehicle's battery charging performance. Please select the desired charging mode according to your needs.

Ensure the settings are correctly configured before initiating any charging process. The available options include "Standard Charging" for everyday use and "Quick Charging" for faster power replenishment when required.

Charging Settings include the following: Driving Range Display toggle, Charge Point Display toggle, Charging Route Planning toggle, Destination Remaining Charge setting, and Charge Point Remaining Charge setting.



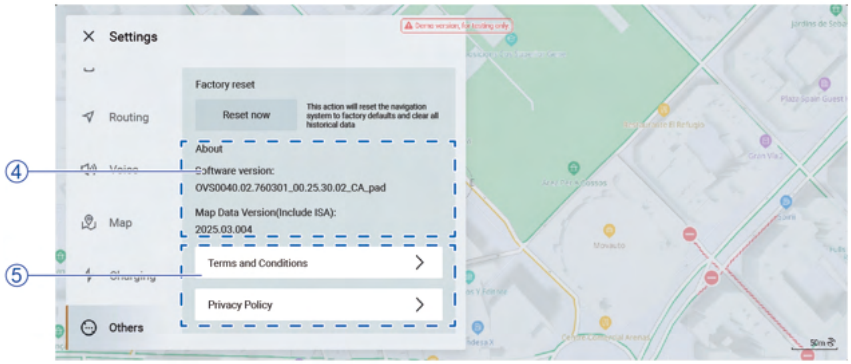
Map Setting Details:

No.	Name	Description
1	Charging-Route-Planning Toggle	The route planner will plan according to the battery level and suggests the charging stop alongside the route.
2	Expected Battery Level Upon Destination	Sets the desired battery reserve (%) on arrival at the destination; this value is used when planning charging stops.
3	Expected Battery Level Upon EV Station	Sets the desired battery reserve (%) on arrival at each charging station; the planner uses this value to schedule stops.

4.5 Other Settings

Other settings include: Unit Mode, Commuting Route Reminder, History Management, Factory Reset, Software Version Information, and Terms of Service and Privacy Policy.





Description of Other Settings:

No.	Name	Description
1	Commuting Route Reminder	Tap to turn the commuting-route reminder on or off.
2	History Management	Deletes historical data such as Previous Destinations, Favourites, Frequent Destinations, and Search History.
3	Restore Default Settings	Restores the navigation application to its factory defaults, erasing all historical data and resetting navigation settings to their original state.
4	Restore Factory Settings	Resets the navigation app to factory defaults. All data and settings will be erased.
5	Terms of Service and Privacy Policy	Tap to access Terms of Service and Privacy Policy.

4.6 Map Updates

Tap Offline Maps to manage map data. The map list appears: If it's already the latest version, it will be displayed as the latest in the list; if there are updatable country maps available, an update button will appear. Tap it to update the corresponding country's map data.



Description of Map Updates:

No.	Name	Description
1	Search	Use the search box to quickly locate a specific country.
2	Auto-Update	Toggles to turn automatic map updates on or off. When enabled and connected to the internet, the system will update maps based on vehicle position and route, using mobile data.
3	Update	When updated map data is available for the current country, an Update button is displayed. Tap the button to install the update.

5 Glossary

5.1 Diagram Terminology Explanation

Map View

The map view contains information such as road networks, POIs, parks, green spaces, water systems, and building blocks.

POI (Point of Interest)

A POI refers to an entity such as a house, a shop, a petrol station, etc. In MXNAVI Navigation, for different categories of POI, it also offers aggregate search capabilities. You can search for a specific POI category to find a destination, such as searching for "coffee shop".

2D Heading Up & 2D North Up

In 2D mode, the pitch angle is 0, which means a two-dimensional plane map. MXNAVI Navigation supports 2D Head-Up and 2D North Up orientations. Including:

- 2D North Up indicates that in 2D mode, the map is always oriented with true north at the top. The vehicle's heading changes relative to the map.
- In 2D Heading Up mode, the vehicle's is facing upwards. The front of the vehicle always points upwards, but the map's direction does not necessarily maintain north at the top and south.

3D Heading Up

In 3D mode, when the pitch angle is greater than 0, the three-dimensional map is displayed, and buildings have a three-dimensional effect. MXNAVI Navigation supports 3D Head-Up mode Navigation supports 3D Head-Up mode: In 3D mode, the vehicle is always facing upwards. The functionality is the same as in 2D Heading Up mode, except the map is displayed in 3D.

Current Vehicle Position

Vehicle icon, indicating the current vehicle's position.

Recentre

Reset the map centre based on the vehicle's current position to restore the default map centre.

3D Building

Non-landmark buildings are only 3D modelled based on their shape and height, without actual texture rendering.

3D Landmark Building

Landmark buildings are 3D modelled based on their shape and height, with actual texture rendering.

Traffic Flow

The level of congestion displayed on the map surface is usually indicated by red, yellow, green lines based on the road network. Within the settings, users can enable or disable the traffic conditions display.

Traffic Event

On the map interface, it marks the traffic event information obtained from real-time traffic data, such as road closures ahead.

Ferry Line

Ferry lines are indicated by dashed lines.

Current Road Label

The main map displays the current vehicle's orientation information next to the road name, helping users understand the direction the vehicle is facing.

5.2 Search Term Explanation

One-box Search

Users can enter keywords into the search box, and based on the input information, automatic suggestions will be provided.

Category Search

After tapping the search box, you can choose from the default common point of interest categories to quickly find results that match the target category.

Nearby Search

Search for points of interest near a specified location .

Along Route Search

In navigation mode, drivers may tap Search to quickly locate waypoints via One-box Search or Category Search. By default, searches are performed along the current route, but can be switched to search near the vehicle’s location or near the destination.

Recent Search

Click on the History list in the search panel to quickly select a previous destination for subsequent navigation planning and guidance.

Favorites Search

Click on the favourites in the search panel to quickly select a user's favourite address for subsequent navigation planning and guidance.

RGC Search

Users can long-press a destination location after moving the map, and the navigation will search for the reverse geolocation information around the latitude and longitude of that location, such as province, city, district names, city codes, and POI information, to display the information. Based on this information, users can choose whether to proceed with subsequent navigation planning and guidance.

5.3 Definition of Terms for Positioning

GNSS (Global Navigation Satellite System)

GNSS Global Navigation Satellite System refers to a space-based radio navigation positioning system that can provide users with 3D coordinates, velocity, and timing information at any location anywhere on or near the Earth's surface continuously. Well-known systems include GPS (USA), BeiDou (China), Galileo (EU), GLONASS (Russia) , and others.

GPS Drift

GPS drift refers to a significant discrepancy between the GPS location and the actual position, resulting in a continuous trajectory that deviates from the actual route during movement.

DR Inertial Navigation

Dead Reckoning refers to estimated positioning. In vehicle navigation, dead reckoning is the process of using a previously determined position, and by measuring the distance and direction of movement, calculating the position after a period of time. Dead reckoning is affected by cumulative errors, meaning that over time, the calculated position error will increase, necessitating the use of GNSS position correction. The Telenav DR positioning engine uses a tightly coupled approach to fuse multiple sensor data, including vehicle odometer, gyroscope, and accelerometer, to achieve DR (Dead Reckoning) positioning. This is then integrated with maps for map matching and feedback, ultimately providing high-frequency, low-error positioning data.

Map Matching (MM)

Map Matching assumes that vehicles are driving on the road. The position and heading of the original signal generally do not match the road data. Therefore, it is necessary to select a road segment or path segment that best matches the signal to display the vehicle marker on it. This process is called Map Matching. There are two input sources for map matching: signal and road data. The output of map matching is location information, including latitude and longitude, angle, speed, etc.

5.4 Navigation Terminology Explanation

Route Planning

Route Planning determines the traveller route based on the traveller's departure and destination locations, using electronic navigation maps, road traffic information, and other data, according to certain rules and algorithms.Route planning options can be configured in the MXNAVI Navigation settings for optimal use.

Route Guidance

Route Guidance is the process of using voice, images, graphics, text, and other information to guide travellers along the route determined by the path planning.

Guidance Mode

When in Navigation Mode, the system provides guidance information based on the planned route.

Cruise Mode

IGV indicates that the vehicle is in cruise mode. In the absence of a planned route, when Cruise Mode is activated, the system presents upcoming road information and relevant driving prompts based on map data.

Deviation

Deviation refers to the vehicle departing from the planned route. From a positioning perspective, it is confirmed only when the location signal has diverged from the route and meets preset conditions, preventing false deviations caused by signal drift.

Resume Trip

Resume Trip refers to the mechanism whereby, after an abnormal exit during navigation (such as map restart, power outage, etc.), a prompt appears asking whether to continue the previous navigation when the map is reopened. After clicking OK, the destination of the destination is set to the endpoint of the previous navigation, the starting point is the current location, and you immediately enter navigation mode. If cancelled, navigation terminated (same as the exit navigation function).

Route Recalculation

Route recalculation refers to the process whereby, after reaching general specific conditions, the positioning system will notify the guidance (or TBT) module to replan the route, with the starting point being the vehicle's current position, in order to meet the user's positioning requirements.

Automatic Rerouting

During navigation, if a more efficient route is detected ahead, the system either automatically replaces the current route or prompt the driver to confirm the change, depending on the selected rerouting settings.

Auto Zoom

As navigation progresses, the map scale automatically adjusts to fit the screen and maximises the display of relevant information.

TTS Broadcasting

TTS is the abbreviation for Text To Speech, which is part of human-machine interface, allowing the system to speak. Through speech synthesis technology, the instructions issued by TBT during navigation are delivered to the navigation user in the form of TTS broadcasts. For example: Turn left in xx metres ahead.

Average Speed Check

Average speed check is implemented by using two monitoring points along a stretch of road. The system calculates the vehicle's average speed in that section based on the time taken to travel between the points. While passing through a speed check section, the navigation system displays both the legal speed limit and the vehicle's calculated average speed for reference.

ETA (Estimated Time of Arrival) / RTT (Remaining Travel Time)

Estimated Time of Arrival / Estimated Remaining Time

Traffic bar

The traffic bar displays road conditions ahead using colour coding and moves dynamically with the vehicle until the destination. Designed to be simple and clear, it allows users to easily understand the display of road conditions.

Junction View

When connected to the network, MXNAVI Navigation constructs a high-precision vector model of the real road environment in Guidance Mode, providing clear directional instructions.

Lane Markings

Lane markings guide driving direction. The highlighted lane indicates the recommended lane, while the dimmed lane indicates a lane that is not drivable or not recommended for the next manoeuvre.

Proximity Action

When the distance between two navigation actions is short, TBT generates a combined junction announcement to warn the user of two consecutive upcoming manoeuvres. Depending on the distance, these are categorised as Near Manoeuvre or Immediate Manoeuvre.

Active Route

Refers to the route currently being followed during navigation. Routes are displayed in different colours depending on live traffic conditions, typically bright green or blue, and are shown using a segmented line pattern.

5.5 Other Terms and Definitions

Multi-screen Widget

A desktop widget used to view map-related information on the launcher. The widget displays either the Trip Card or the Navigation Card depending on the guidance status. The Trip Card provides search functionality, while the Navigation Card displays the guidance.

Multi-screen – Main Display

The navigation screen on the left provides the primary navigation interface and allows switching between app mode and map desktop mode.

Multi-screen – Secondary Display

The screen on the right allows waypoints and destinations to be sent to the driver's main display. When the driver is unable to operate the system, the front passenger can set and transfer the route to the driver's display.

Multi-Screen HUD

This feature displays Turn-by-Turn (TBT) guidance and related information on the Head-Up Display (HUD).

6 End-User Terms

You can view the latest version of the End-User Terms and Privacy Policy in the 'MXNAVI App' on the centre display.