



BMW Motorrad
Navigator

www.bmw-motorrad.com

BMW Motorrad Navigator V

owner's manual



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This Class III product shall be powered by a limited power supply (LPS).

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Getting Started

WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.


Contact Information

If you encounter any difficulty while using your BMW Navigator V, or if you have any questions, contact your BMW Motorrad dealer.

Installing the Battery

- 1 Locate the screwdriver  that came in the product box.



- 2 Locate the lithium-ion battery in the product box.
- 3 Loosen the screws and remove the battery compartment cover.
- 4 If necessary, insert a microSD™ card  into the device.



- 5 Insert the battery with its cable on top.
- 6 Insert the battery connector into the battery port.



- 7 Replace the battery cover and tighten the screws.
NOTE: Do not over-tighten the screws.

Turning On the Device

NOTE: The device turns on automatically if it is in the optional motorcycle or automotive mount and external power is connected and turned on.

Press the power key.

Turning Off the Device

- 1 Hold the power key until a prompt appears on the screen.
The prompt appears after five seconds. If you release the power key before the prompt appears, the device enters sleep mode.
- 2 Select **Off**.

Resetting the Device

You can reset your device if it stops functioning.

Hold the power key for 10 seconds.

Removing the Battery

You can remove the battery if you do not plan on using the device for an extended period of time.

- 1 Loosen the screws and remove the battery compartment cover.
- 2 Press and hold the release tab on the battery connector while gently pulling the connector away from the device.



Installing Your Device in the Motorcycle Mount

CAUTION

Before driving, ensure that the top of the latch is flat and even with the top of the device and the mount.

NOTE: The motorcycle mount is not included in all kits.

- 1 Fit the bottom of your device into the cradle.



- 2 Tilt your device back until it snaps into place and the latch top is completely flat.

Removing Your Device from the Motorcycle Mount

- 1 Press the release button on the side of the mount.
- 2 Lift out the device.

About the Motorcycle Mount

You can access specific device features using the buttons on the motorcycle mount.



①	Select to zoom in and out on the map. Select to use functionality marked with a + or - .
②	Select to view the map, compass, trip computer, and media player. Hold to open the brightness settings.
③	Select to hear the current prompt when you have a Bluetooth® helmet or headset connected. Hold to open the volume settings.

Mounting Your Device in an Automobile

NOTE: The automotive mount is included with the optional car kit.

NOTICE

Before mounting the device, check the local laws pertaining to windshield mounting.

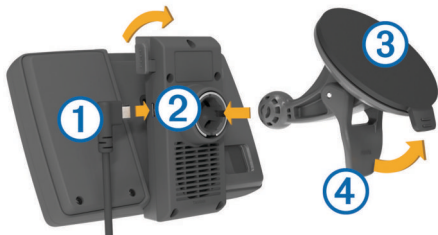
WARNING

This product contains a lithium-ion battery. To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight.

Do not use the suction cup mount on a motorcycle.

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

- 1 Plug the small end of the automotive power cable ① into the port on the side of the automotive mount ②.



- 2 Remove the clear plastic from the suction cup.
- 3 Clean and dry your windshield and the suction cup with a lint-free cloth.
- 4 Press the suction cup ③ to the windshield, and flip the lever ④ back toward the windshield.

- 5 Snap the mount onto the suction cup arm.
- 6 Fit the bottom of your device into the cradle.
- 7 Tilt the device back until it snaps into place.
- 8 Plug the other end of the automotive power cable into a power source.

Support and Updates

Garmin® Express provides easy access to these services for your device.

- Product registration
- Software and map updates
- Product manuals
- Vehicles, voices, and other extras

Setting Up Garmin Express

- 1 Plug the small end of the USB cable into the port on the device.
- 2 Plug the larger end of the USB cable into an available USB port on your computer.
- 3 Go to www.garmin.com/express.
- 4 Follow the on-screen instructions.

Activating Lifetime Maps

NOTE: Lifetime Maps are not applicable to products that do not have pre-loaded maps.

NOTE: Lifetime Maps entitle you to receive map updates when and as such updates are made available by Garmin during the useful life of one compatible Garmin product or as long as Garmin receives map data from a third party supplier, whichever is shorter. For the meaning of a product's "useful life" and for other important terms and conditions, go to www.garmin.com/numapslifetime.

- 1 Go to www.garmin.com/express.
- 2 Follow the on-screen instructions.

NOTE: If you register the device, you can receive e-mail notifications when a map update is available.

About Sleep Mode

Use sleep mode to conserve battery power when your device is not in use. Sleep mode uses very little power, and a battery charge lasts for weeks when your device is in sleep mode.

Entering Sleep Mode

Press the **Power** key.

Exiting Sleep Mode

While the device is in sleep mode, press the **Power** key.

Adjusting the Screen Brightness







- 1 Select **Settings** > **Display** > **Brightness**.
- 2 Use the slider bar to adjust the brightness.

Adjusting the Volume

- 1 Select **Volume**.
- 2 Select an option:
 - Select ▲ or ▼ to adjust the volume.
 - Select 🔇 to mute the device.
 - Select 🗨 for additional options.

Status Bar Icons


The status bar is located at the top of the main menu. The status bar icons display information about features on the device. You can select some icons to change settings or view additional information.

	GPS signal status.
	Bluetooth technology status (appears when Bluetooth is enabled).
	Connected to Smartphone Link.
	Transportation mode indicator. Allows you to select automobile, motorcycle, or off road mode.
	Current time.
	Battery status.

Choosing a Transportation Mode

Select .

Battery Information








After the device is connected to power, it begins to charge.  in the status bar indicates the status of the internal battery.

Setting the Time

NOTE: You can select **Automatic** to automatically set the time each time the device is powered on.






- 1 Select **9:10A**.
- 2 Scroll the numbers to set the time.

Using the On-Screen Buttons

- Select  to return to the previous menu screen.
- Hold  to quickly return to the main menu.
- Select  or  to see more choices.
- Hold  or  to scroll faster.
- Select  to see a menu of options for the current screen.

Using the On-Screen Keyboard

See "Language and Keyboard Settings" to change the keyboard layout ([page 12](#)).

- Select  to delete a search entry.
- Select  to delete a character.
- Select  to change the keyboard language mode.
- Select  to enter special characters, such as punctuation marks.
- Select  to change character capitalization.

About Shortcuts


Adding a Shortcut

You can add shortcuts to the Where To? menu. A shortcut can point to a location, a category, or a search tool.

The Where To? menu can contain up to 36 shortcut icons.

- 1 Select **Where To? > Add Shortcut**.
- 2 Select an item.

Removing a Shortcut

- 1 Select **Where To? >  > Remove Shortcut(s)**.
- 2 Select the shortcut to remove.
- 3 Select the shortcut again to confirm.

About Locations

The maps loaded in your device contain locations, such as restaurants, hotels, auto services, and street information. You can use categories to browse for nearby businesses and attractions. You can also search for addresses, coordinates, cities, and intersections.

Finding BMW Dealers

You can find a BMW dealer closest to your location.

Select **Where To? > BMW Motorrad**.

Contact Information

If you encounter any difficulty while using your BMW Navigator V, or if you have any questions, contact your BMW Motorrad dealer.

Finding Locations

Finding a Location by Category

- 1 Select **Where To?**.
- 2 Select a category, or select **Categories**.
- 3 If necessary, select a subcategory.
- 4 Select a location.

Searching Within a Category

After you have performed a search for a point of interest, certain categories may display a Quick Search list that shows the last three destinations you selected.

- 1 Select **Where To?**.
- 2 Select a category, or select **Categories**.
- 3 Select a category.
- 4 If applicable, select a destination from the Quick Search list.
- 5 If necessary, select the appropriate destination.

Finding a Location Using the Search Bar

You can use the search bar to search for locations by entering a category, brand name, address, or city name.

- 1 Select **Where To?**.
- 2 Select **Enter Search** in the search bar.
- 3 Enter all or part of the search term.
Suggested search terms appear below the search bar.
- 4 Select an option:
 - To search for a type of business, enter a category name (for example, "movie theaters").
 - To search for a business name, enter all or part of the name.
 - To search for an address near you, enter the street number and street name.
 - To search for an address in another city, enter the street number, street name, city, and state.
 - To search for a city, enter the city and state.
 - To search for coordinates, enter latitude and longitude coordinates.
- 5 Select an option:
 - To search using a suggested search term, select the term.
 - To search using the text you entered, select **Q**.
- 6 If necessary, select a location.

Changing the Search Area

- 1 From the main menu, select **Where To?**.
- 2 Select **Searching Near**.
- 3 Select an option.

Finding a Location by Browsing the Map

Before you can find places included in the map data, such as restaurants, hospitals, and fuel stations, you must enable the map layer for places along the road ([page 6](#)).

- 1 Select **View Map**.
- 2 Drag and zoom the map to display the area to search.

- 3 If necessary, select **Q**, and select a category icon to view only a specific category of places.
Location markers (📍 or a blue dot) appear on the map.
- 4 Select an option:
 - Select a location marker.
 - Select a point, such as a street, intersection, or address location.
- 5 If necessary, select the location description to view additional information.

Finding an Address

NOTE: The order of the steps may change depending on the map data loaded on your device.

- 1 Select **Where To? > Address**.
- 2 Enter the address number, and select **Done**.
- 3 Enter the street name, and select **Next**.
- 4 If necessary, select **Searching Near** to change the city, state, or province.
- 5 If necessary, select the city, the state, or the province.
- 6 If necessary, select the address.

Finding Recently Found Destinations

Your device stores the last 50 destinations you have found.

- 1 Select **Where To? > Recent**.
- 2 Select a location.

Clearing the List of Recently Found Locations

Select **Where To? > Recent > ☰ > Clear > Yes**.

Finding Parking

- 1 Select **Where To? > Categories > Parking**.
- 2 Select a parking location.

Finding Your Last Parking Spot

When you disconnect the device from vehicle power while the device is on, your current location is saved as a parking spot.

Select **Apps > Last Spot**.

Search Tools

Search tools allow you to search for specific types of locations by responding to on-screen prompts.

Finding an Intersection

- 1 Select **Where To? > Categories > Intersections**.
- 2 Select an option:
 - Select a state or province.
 - To change the country, state, or province, select **State or Country**, and enter a name.
- 3 Enter the first street name, and select **Next**.
- 4 If necessary, select the street.
- 5 Enter the second street name, and select **Next**.
- 6 If necessary, select the street.
- 7 If necessary, select the intersection.

Finding a City

NOTE: Selecting a city navigates you near the city center.

- 1 Select **Where To? > Categories > Cities**.
- 2 Select **Enter Search**.
- 3 Enter a city name, and select **Q**.
- 4 Select a city.

Finding a Location Using Coordinates

You can find a location using latitude and longitude coordinates. This can be helpful when geocaching.

- 1 Select **Where To? > Categories > Coordinates**.

- 2 If necessary, select **📍**, and change the coordinate format or datum.
- 3 Select the latitude coordinate.
- 4 Enter the new coordinate, and select **Done**.
- 5 Select the longitude coordinate.
- 6 Enter the new coordinate, and select **Done**.
- 7 Select **View on Map**.

Setting a Simulated Location

If you are indoors or not receiving satellite signals, you can use the GPS to set a simulated location.

- 1 Select **Settings > Navigation > GPS Simulator**.
- 2 From the main menu, select **View Map**.
- 3 Tap the map twice to select an area.
The address of the location appears at the bottom of the screen.
- 4 Select the location description.
- 5 Select **Set Location**.

Saving Locations

Saving a Location

- 1 Search for a location ([page 3](#)).
- 2 From the search results, select a location.
- 3 Select **📍**.
- 4 Select **☰ > Save**.
- 5 If necessary, enter a name, and select **Done**.

Saving Your Current Location

- 1 From the map, select the vehicle icon.
- 2 Select **Save**.
- 3 Enter a name, and select **Done**.
- 4 Select **OK**.

Starting a Route to a Saved Location

- 1 Select **Where To? > Saved**.
- 2 If necessary, select a category, or select **All Saved Places**.
- 3 Select a location.
- 4 Select **Go!**.

Editing a Saved Location

- 1 Select **Where To? > Saved**.
- 2 If necessary, select a category.
- 3 Select a location.
- 4 Select **📍**.
- 5 Select **☰ > Edit**.
- 6 Select an option:
 - Select **Name**.
 - Select **Phone Number**.
 - Select **Categories** to assign categories to the saved location.
 - Select **Change Map Symbol** to change the symbol used to mark the saved location on a map.
- 7 Edit the information.
- 8 Select **Done**.

Assigning Categories to a Saved Location

You can add custom categories to organize your saved locations.

NOTE: Categories appear in the saved locations menu after you have saved at least 12 locations.

- 1 Select **Where To? > Saved**.
- 2 Select a location.

- 3 Select **i**.
- 4 Select **≡** > **Edit** > **Categories**.
- 5 Enter one or more category names, separated by commas.
- 6 If necessary, select a suggested category.
- 7 Select **Done**.

Deleting a Saved Location

NOTE: Deleted locations cannot be recovered.

- 1 Select **Where To?** > **Saved**.
- 2 Select **≡** > **Delete Saved Places**.
- 3 Select the box next to the saved locations to delete, and select **Delete**.

Saving a Home Location

You can set your home location for the location you return to most often.

- 1 Select **Where To?** > **≡** > **Set Home Location**.
- 2 Select **Enter My Address, Use Current Location, or Recently Found**.

The location is saved as "Home" in the Saved menu.

Going Home

Select **Where To?** > **Go Home**.

Editing Your Home Location Information

- 1 Select **Where To?** > **Saved** > **Home**.
- 2 Select **i**.
- 3 Select **≡** > **Edit**.
- 4 Enter your changes.
- 5 Select **Done**.

Finding Recently Found Destinations

Your device stores the last 50 destinations you have found.

- 1 Select **Where To?** > **Recent**.
- 2 Select a location.

Clearing the List of Recently Found Locations

Select **Where To?** > **Recent** > **≡** > **Clear** > **Yes**.

Navigation

Starting a Route

- 1 Search for a location.
- 2 Select a location.
- 3 Select **Go!**.

Previewing Multiple Routes

- 1 Search for a location.
- 2 From the search results, select a location.
- 3 Select **Routes**.
- 4 Select a route.

Changing the Route Calculation Mode

- 1 Select **Settings** > **Navigation** > **Calculation Mode**.
- 2 Select an option:
 - Select **Faster Time** to calculate routes that are faster to drive but can be longer in distance.
 - Select **Shorter Distance** to calculate routes that are shorter in distance but can take more time to drive.
 - Select **Off Road** to calculate point-to-point routes (without roads).

Navigating Off Road

If you are not following roadways as you navigate, you can use Off Road mode.

- 1 Select **Settings** > **Navigation**.
- 2 Select **Calculation Mode** > **Off Road** > **Save**.
The next route will be calculated as a straight line to the location.

Starting a Route to a Saved Location

- 1 Select **Where To?** > **Saved**.
- 2 If necessary, select a category, or select **All Saved Places**.
- 3 Select a location.
- 4 Select **Go!**.

Your Route on the Map

NOTICE

The speed limit feature is for information only and does not replace your responsibility to abide by all posted speed limit signs and to use safe driving judgment at all times. Garmin will not be responsible for any traffic fines or citations you receive for failing to follow all applicable traffic laws and signs.

The route is marked with a magenta line. A checkered flag marks your destination.

As you travel, the device guides you to the destination with voice prompts (when the device is in the automotive mount or connected to a Bluetooth headset), arrows on the map, and directions at the top of the map. Depending on recalculation settings, if you depart from the original route, the device recalculates the route and provides new directions.

A data field displaying the current speed limit may appear as you travel on major roadways.

Using the Navigation Map

- 1 Select **View Map**.
- 2 Select anywhere on the map.
- 3 Select an option:
 - To zoom in or out, select **+** or **-**.
 - To switch between North Up and 3-D views, select the map and then select **▲**.
 - To view specific categories when not navigating a route, select **Q**.
 - To center the map on your current location, select **↶**.

Adding a Point to a Route

Before you can add a stop, you must be navigating a route.

- 1 From the map, select **↶** > **Where To?**.
- 2 Search for the extra stop.
- 3 Select the stop from the search results.
- 4 Select **Go!**.
- 5 Select **Add to Active Route**.

Taking a Detour

While navigating a route, you can use detours to avoid obstacles ahead of you, such as construction zones.

While navigating, select **≡** > **Detour**.

The device creates a detour around the next 0.5 miles (0.8 km) of your current route using the nearest viable roads.

Stopping the Route

From the map, select **≡** > **✖**.

Using Suggested Routes

Before you can use this feature, you must save at least one location and enable the travel history feature.

Using the myTrends™ feature, your device predicts your destination based on your travel history, the day of the week, and the time of day. After you have driven to a saved location





several times, the location may appear in the navigation bar on the map, along with the estimated time of travel, and traffic information.

Select the navigation bar to view a suggested route to the location.


About Exit Services

While you navigate a route, you can find gas, food, lodging, and restrooms near upcoming exits.



Services are listed under tabs by category.

	Gas
	Food
	Lodging
	Restrooms

Finding Exit Services

- 1 From the map, select  > **Exit Services**.
- 2 Use the arrows to select an upcoming exit.
- 3 Select an exit service tab.
- 4 Select a point of interest.

Navigating to an Exit

- 1 From the map, select  > **Exit Services** > .
- 2 Select **Go!**.

Map Pages

Customizing the Map

Customizing the Map Layers

You can customize which data appear on the map, such as icons for points of interest and road conditions.

- 1 Select **Settings** > **Map & Vehicle** > **Map Layers**.
- 2 Select the layers to include on the map, and select **Save**.

Viewing the Trip Log

Your device keeps a trip log, which is a record of the path you have traveled.


- 1 Select **Settings** > **Map & Vehicle** > **Map Layers**.
- 2 Select the **Trip Log** check box.

Changing the Map Data Field

- 1 From the map, select a data field.
NOTE: You cannot customize **Speed**.
- 2 Select a type of data to display.
- 3 Select **Save**.

Customizing Map Buttons

You can include up to two icons on the right side of the main map.

- 1 Select **Settings** > **Map & Vehicle** > **Map Buttons**.
- 2 Select an icon, and select **OK**.
- 3 Select .
- 4 Select a different icon.

Removing Buttons from the Map

You can remove all buttons from the right side of the map.

- 1 Select **Settings** > **Map & Vehicle** > **Map Buttons**.
- 2 Select an icon, and select **OK**.
- 3 Select **Save**.

Changing the Map Dashboard

The dashboard displays trip information at the bottom of the map. You can select different dashboards to change the style and the layout of the information.

- 1 Select **Settings** > **Map & Vehicle** > **Dashboards**.
- 2 Use the arrows to select a dashboard.
- 3 Select **Save**.

Changing the Map Perspective

- 1 Select **Settings** > **Map & Vehicle** > **Driving Map View**.
- 2 Select an option:
 - Select **Track Up** to display the map in two dimensions (2-D), with your direction of travel at the top.
 - Select **North Up** to display the map in 2-D with north at the top.
 - Select **3-D** to display the map in three dimensions.


Viewing Route Activity

Viewing a List of Turns

While navigating a route, you can view all of the turns and maneuvers for your entire route and the distance between turns.

- 1 While navigating a route, select the text bar on the top of the map.
- 2 Select a turn.
The details for the turn appear. If available, an image of the junction appears for junctions on major roadways.


Viewing the Entire Route on the Map

- 1 While navigating a route, select the navigation bar at the top of the map.
- 2 Select  > **Map**.

Viewing the Next Turn


While navigating an automobile route, a preview of the next turn, lane change, or other maneuver appears in the upper-left corner of the map.

The preview includes the distance to the turn or maneuver and the lane in which you should be traveling, if available.

From the map, select  to view the next turn on the map.

Viewing Junctions

While navigating a route, you can view the junctions on major roadways. When you approach a junction in a route, the image of that junction appears briefly, if available.

From the map, select  to view the junction, if available.

Viewing Traffic Alerts

While navigating a route, a traffic alert may appear in the navigation bar.

Select the alert to view more information.


Viewing the Trip Computer

The trip information page displays your present speed and provides statistics about your trip.

NOTE: If you make frequent stops, leave the device turned on, so it can accurately measure elapsed time during the trip.

From the map, select **Speed**.

Resetting Trip Information

- 1 From the map, select **Speed**.
- 2 Select  > **Reset Field(s)**.
- 3 Select an option:
 - When not navigating a route, select **Select All** to reset every data field except the speedometer, on the first page.

- Select **Reset Trip Data** to reset the information on the trip computer.
- Select **Reset Max. Speed** to reset the maximum speed.
- Select **Reset Trip B** to reset the odometer.

Viewing Current Location Information

You can use the Where Am I? page to view information about your current location. This feature is helpful if you need to tell emergency personnel your location.

From the map, select the vehicle.


Finding Nearby Services

You can use the Where Am I? page to find nearby services, such as fuel, hospitals or police stations.

- 1 From the map, select the vehicle.
- 2 Select a category.

Getting Directions to Your Current Location

If you need to tell another person how to get to your current location, your device can give you a list of directions.

- 1 From the map, select the vehicle.
- 2 Select  > **Directions to Me**.
- 3 Select a starting location.
- 4 Select **Select**.

Hands-Free Voice Prompts

About Wireless Headsets

NOTE: To listen to high-quality audio wirelessly, you can connect to a Bluetooth headset that supports the A2DP profile.

Using wireless technology, your device can send audio navigation prompts to a wireless headset.

Enabling Bluetooth Wireless Technology

- 1 Select **Settings** > **Bluetooth**.
- 2 Select **Bluetooth**.

Pairing a Wireless Headset

NOTE: Only one headset can be active at a time.

Before you can receive navigation prompts through your headset, you must pair your device with a compatible mobile headset.

- 1 Place your headset and your Bluetooth device within 33 ft. (10 m) of each other.
- 2 On your device, enable wireless technology.
- 3 On your headset, enable Bluetooth wireless technology.
- 4 Select **Settings** > **Bluetooth** > **Scan for Devices**.
A list of nearby Bluetooth devices appears.
- 5 Select your headset from the list.
- 6 Select **OK**.

Your device sends navigation prompts to your headset as you navigate a route.

Deleting a Paired Headset

You can delete a paired headset to prevent it from automatically connecting to your device in the future.

- 1 Select **Settings** > **Bluetooth**.
- 2 Select the device you want to delete.
- 3 Select **Unpair Device**.

Disconnecting Your Headset

- 1 Select **Settings** > **Bluetooth**.

- 2 Select the device you want to disconnect.

- 3 Clear the device check box.

Your headset is disconnected from your device but remains paired with your device.

Tips After Pairing the Devices

- After the initial pairing, the two devices can connect automatically each time you turn them on.
- When your phone is connected to your device in the automotive mount or to a Bluetooth headset, you are ready to receive voice calls.
- When you turn on the device, it tries to connect to the last phone or Bluetooth device to which it was connected.
- You might need to set your phone to connect to the device automatically when the device is turned on.

Using the Apps

Using Help

Select **Apps** > **Help** to view information about using the device.

Searching Help Topics

Select **Apps** > **Help** > **Q**.

Smartphone Link

Smartphone Link is a phone application that allows you to synchronize location data with your phone and access live information using your phone data connection. Your device transfers data from Smartphone Link using Bluetooth wireless technology. Live information is available through free and subscription-based plans from Garmin Live Services.

Saved locations and recently found locations are synchronized with your phone each time your device connects to Smartphone Link.

Downloading Smartphone Link

Smartphone Link is available for some smartphones. See the application store for your phone for compatibility and availability information.

Download Smartphone Link from the application store on your supported phone.

See your phone owner's manual for information on downloading and installing applications.

Connecting to Smartphone Link

Before you can connect to Smartphone Link, you must download and install the Smartphone Link app on your phone.

See your phone owner's manual for more information.

- 1 Start Smartphone Link on your phone.
- 2 From your device, select **Settings** > **Bluetooth**.
- 3 Select the **Bluetooth** check box.
- 4 Select the **Discoverable** check box.
- 5 From your phone, select **Bluetooth**.
- 6 From your phone, enable Bluetooth wireless technology, and scan for nearby Bluetooth devices.
- 7 From your phone, select your device from the list of nearby devices.
- 8 Follow the on-screen instructions on your phone and on your device to confirm the pairing request.
✳️ appears in the status bar on your device when Smartphone Link is connected.

Sending a Location from Your Phone to Your Device

Smartphone Link is registered as a navigation application on your phone.

- 1 From your phone, select the button to start navigating to a location (see the owner's manual for your phone).
- 2 From the application menu, select **Smartphone Link**.

The next time you connect your device to your phone, the location is transferred to the recently found items on your device.

Disabling Calls While Connected to Smartphone Link

While the device is connected to the phone and receiving Garmin Live Services, you can disable hands-free calling.

- 1 Select **Settings > Bluetooth**.
- 2 Select your phone.
- 3 Clear the **Phone Calls** check box.

About Garmin Live Services

Before you can use Garmin Live Services, your device must be connected to a supported phone running Smartphone Link.

Some services, like weather, are available as separate apps on your device. Other services, like traffic, enhance the existing navigation features on your device. Features that require access to Garmin Live Services display the Smartphone Link symbol and appear only when the device is connected to a supported phone running Smartphone Link.

Subscribing to Garmin Live Services

Before you can subscribe to Garmin Live Services, you must install the Smartphone Link app on your phone.

- 1 Start the Smartphone Link app on your phone.
- 2 Select **Garmin Live Services**.
A list of services and subscription prices appears.
- 3 Select a service.
- 4 Select the price.
- 5 Select **Subscribe**.
- 6 Follow the on-screen instructions.

Viewing the Weather Forecast

Before you can use this feature, you must connect your device to a supported phone running Smartphone Link. This feature is not available in all areas.

- 1 Select **Apps > Weather**.
- 2 Select a day.
The detailed forecast for that day appears.

Viewing Weather Near a Different City

- 1 Select **Apps > Weather > Current Location**.
- 2 Select an option:
 - To view weather for a favorite city, select a city in the list.
 - To add a favorite city, select **Add City**, and enter a city name.

Viewing the Weather Radar

You can view an animated, color-coded radar map of current weather conditions, as well as a weather icon on the map. The weather icon changes to show weather in the vicinity, such as rain, snow, and thunderstorms.

- 1 Select **Apps > Weather**.
- 2 If necessary, select a city.
- 3 Select **☰ > Weather Radar**.

Viewing Weather Alerts

While you are traveling with your device, weather alerts may appear on the map. You can also view a map of weather alerts near your current location or near a selected city.

- 1 Select **Apps > Weather**.
- 2 If necessary, select a city.
- 3 Select **☰ > Weather Alerts**.

Checking Road Conditions

- 1 Select **Apps > Weather**.
- 2 If necessary, select a city.
- 3 Select **☰ > Road Conditions**.

Trip Planner

A trip can consist of up to 29 via points and one final destination. Up to 50 shaping points can be included between each via point.

About Via Points

Via points are intermediate destinations within a trip. An orange flag indicates a via point on the map. A trip can contain up to 29 via points and one final destination. While navigating a trip, the device announces your arrival at each via point.

About Shaping Points

Shaping points are intermediate points between destinations or via points that can be used to shape the direction of your route. A blue dot indicates a shaping point on the map. You can have up to 50 shaping points between each destination or via point. While navigating, the device does not announce your arrival at each shaping point.

Planning a Trip to Destination

You can use the trip planner to create a trip with a single or multiple destinations.

- 1 Select **Apps > Trip Planner**.
- 2 Select **New Trip**.
- 3 Select **Select Start Location**.
- 4 Search for a location ([page 3](#)).
- 5 Select **Select**.
- 6 To add a final destination, select **+**.
- 7 Select **Next**.
- 8 Enter a name, and select **Done**.

Adding Points to a Trip

NOTE: Before you can add a shaping point, your trip must contain a start location, at least one via point, and a final destination.

While creating or editing a trip, any via point can be changed to a shaping point and any shaping point can be changed into a via point.

- 1 Select **Apps > Trip Planner**.
- 2 Select **New Trip**.
- 3 Select **Select Start Location**.
- 4 Search for a location ([page 3](#)).
- 5 Select **Select**.
- 6 Select **+** to add a final destination.
- 7 Select **+** to add at least one via point.
Via points are indicated by an orange flag.
- 8 If necessary, select the orange flag next to a via point to change it to a shaping point.
Shaping points are indicated by a blue dot.
- 9 Select **Next**.

10 Enter a name, and select **Done**.


Scheduling a Trip

You can use the trip planner to create and save a trip with multiple destinations.

- 1 Select **Apps > Trip Planner**.
- 2 Select a trip.
- 3 Select a location.
- 4 Select an option:
 - Select **Departure Time**.
 - Select **Arrival Time**.
- 5 Select a date and time, and select **Save**.
- 6 Select **Duration**.
- 7 Select the amount of time you will spend at the location, and select **Save**.
- 8 If necessary, repeat steps 3–7 for each location.

Changing Transportation Modes in a Trip


You can change the transportation modes used to travel in a saved trip.

- 1 Select **Apps > Trip Planner**.
- 2 Select a trip.
- 3 Select  **> Transportation Mode**.
- 4 Select a transportation mode.
- 5 Select **Save**.

Navigating to a Saved Trip

- 1 Select **Apps > Trip Planner**.
- 2 Select a saved trip.
- 3 Select **Go!**.
- 4 If prompted, select a route.

Editing a Saved Trip

- 1 Select **Apps > Trip Planner**.
- 2 Select a saved trip.
- 3 Select .
- 4 Select an option:
 - Select **Rename Trip**.
 - Select **Edit Destinations** to add and delete a location, or to change the order of locations.
 - Select **Delete Trip**.
 - Select **Optimize Order** to arrange the stops on your trip in the most-efficient order.

TracBack®

Following Your Recent Track

The TracBack feature records a track of your recent movement. You can retrace your recent track back to where you started.

- 1 Select **TracBack**.
Your recent track appears on the map.
- 2 Select **Go!**.

Saving Your Recent Track as a Trip

You can save your recent track as a trip, which you can navigate later using the trip planner.

- 1 Select **TracBack**.
Your recent track appears on the map.
- 2 Select **Save as Trip**.
- 3 Enter a name, and select **Done**.

Using the Compass

NOTE: You must be moving for the compass to determine your direction.

You can navigate using a GPS compass.

Select **Apps > Compass**.

Viewing Previous Routes and Destinations

Before you can use this feature, you must enable the travel history feature.

You can view your previous routes and locations where you have stopped on the map.

Select **Apps > Where I've Been**.

Using the World Clock

- 1 Select **Apps > World Clock**.
- 2 If necessary, select a city, enter a city name, and select **Done**.

Viewing the World Map

Select **Apps > World Clock > **.

Nighttime hours appear in the shaded area of the map.

Setting an Alarm

- 1 Select **Apps > Alarm Clock**.
- 2 Set a time.
- 3 Select the **Alarm On** check box.

Using the Calculator

Select **Apps > Calculator**.

Converting Units

- 1 Select **Apps > Unit Converter**.
- 2 If necessary, select the button next to **Convert**, select a measurement category, and select **Save**.
- 3 If necessary, select a unit button, select a unit of measurement, and select **Save**.
- 4 Select the field below the unit you want to convert.
- 5 Enter the number, and select **Done**.

Setting Currency Conversion Rates



This feature is not available in all areas.






You can update the currency conversion rates for the unit converter.

- 1 Select **Apps > Unit Converter**.
- 2 Select the button next to **Convert**.
- 3 Select **Currency**, and select **Save**.
- 4 If necessary, select a currency button, select a different currency, and select **Save**.
- 5 Select the button at the bottom of the screen that displays the currency conversion rates.
- 6 Select the box next to a currency.
- 7 Enter a value, and select **Done**.
- 8 Select **OK**.

About the Media Player

The media player can only be used when music can be played in good stereo quality. When a non-A2DP headset is used, the media player cannot be started.

	Plays the current track.
	Adjusts the volume.

	Plays the current song from the beginning. Plays the previous song on the playlist, when selected twice. Rewinds through the current track, when held.
	Skips to the next track. Fast forwards through the current track, when held.
	Pauses the current track.
	Repeats the playlist.
	Shuffles the playlist.

Supported File Types

NOTE: When your phone is paired with the device using Bluetooth, you cannot play MP3s on your phone through the device.

The device supports MP3 music files, and M3U and M3U8 playlist files.

Playing Music

Before you can play music, you must load music files to the internal memory on the device or on a memory card ([page 10](#)).

- 1 Select **Apps > Media Player > Browse**.
- 2 If necessary, select a category or subcategory.
- 3 If necessary, select **Play All** to play the entire category from the beginning of the list.

Creating a Playlist

- 1 Select **Browse > Playlist > New Playlist**.
- 2 Select the tracks to add to the playlist.
- 3 Select **Back** after you are done adding tracks to the playlist.

Creating a Playlist on a Computer

- 1 Using your computer and an audio program, create a playlist of music files.
- 2 Save the playlist or M3U8 file, in the same location as the music files.
- 3 If necessary, use a text editor application to remove the path to the file names in the M3U file.
- 4 Transfer the playlist and the music files to the device.

Editing the Current Playlist

You must be listening to music in the media player to edit the current playlist.

- 1 Select a playlist.
- 2 Select an option:
 - Select **Add** to add a track to the end of the playlist.
 - Select a track, and select **Remove Tracks** to remove the track from the playlist.

Traffic

NOTICE

Garmin is not responsible for the accuracy or timeliness of the traffic information.


Traffic information is available only through Smartphone Link.

About Traffic on Your Route



When a traffic delay occurs on your route, an alert appears on the map, and the device calculates an alternate route to avoid the delay. You can choose whether to use alternate routes automatically, or upon request. Your device may route you through a traffic delay if a better alternative route does not exist. The delay time is added into your estimated time of arrival automatically.

Viewing Upcoming Traffic

You can view traffic incidents coming up along your route or along the road on which you are traveling.


- 1 While navigating a route, select  > **Traffic**.
The nearest upcoming traffic incident appears in a panel on the right side of the map.
- 2 Select the traffic incident to view additional details.

Manually Avoiding Traffic on Your Route

- 1 From the map, select .
- 2 Select **Traffic on Route**.
- 3 If necessary, use the arrows to view other traffic delays on your route.
- 4 Select  > **Avoid**.

Taking an Alternate Route

If you do not have your device set to use alternate routes automatically, you can manually start an alternate route to avoid a traffic delay.

- 1 While navigating a route, select  > **Traffic**.
- 2 Select **Alternate Route**.
- 3 Select **Go!**.


Viewing Traffic on the Map

The traffic map shows color-coded traffic flow and delays on nearby roads.


- 1 From the map, select  > **Traffic**.
- 2 If necessary, select  > **Traffic Legend** to view the legend for the traffic map.

Traffic in Your Area


Searching for Traffic Incidents

- 1 From the main menu, select **Apps > Traffic**.
- 2 Select  > **Traffic Conditions**.
- 3 Select an item in the list.
- 4 If there is more than one incident, use the arrows to view additional incidents.

Viewing a Traffic Incident on the Map


- 1 From the traffic map, select .
- 2 Select an incident.

Searching for Traffic Incidents

- 1 From the map, select  > **Traffic**.
- 2 Select **Traffic Conditions**.
- 3 Select an item.

Understanding Traffic Data

The traffic legend explains the icons and colors used on the traffic map.

- 1 From the map, select  > **Traffic**.
- 2 Select **Traffic Legend**.

Disabling Traffic

- 1 Select **Settings > Traffic**.
- 2 Clear the **Traffic** check box.

Data Management

You can store files on your device. The device has a memory card slot for additional data storage.

NOTE: The device is not compatible with Windows® 95, 98, Me, Windows NT®, and Mac® OS 10.3 and earlier.

File Types

The device supports these file types.

- Maps and GPX waypoint files from myGarmin™ mapping software, including MapSource®, BaseCamp™, and HomePort™ (page 13).
- GPI custom POI files from Garmin POI Loader (page 13).

About Memory Cards

You can purchase memory cards from an electronics supplier, or purchase pre-loaded Garmin mapping software (www.garmin.com). In addition to map and data storage, the memory card can be used to store files such as maps, images, geocaches, routes, waypoints, and custom POIs.

Installing a Memory Card

NOTE: The device supports microSD, microSDHC, and microSDXC memory cards. It does not support exFAT. Memory cards must be formatted as FAT32.

- 1 Remove the back cover and the battery from the device.
- 2 Insert a memory card into the slot on the device.
- 3 Press it in until it clicks.

Connecting the Device to Your Computer

You can connect the device to your computer using the USB cable included with your device.

- 1 Plug the small end of the USB cable into the port on the device.
- 2 Plug the larger end of the USB cable into a port on your computer.

A picture of your device connected to a computer appears on the device screen.

Depending on your computer operating system, the device appears as either a portable device, a removable drive, or a removable volume.

Transferring Data From Your Computer

- 1 Connect the device to your computer (page 11).
Depending on your computer operating system, the device appears as either a portable device, a removable drive, or a removable volume.
- 2 On your computer, open the file browser.
- 3 Select a file.
- 4 Select **Edit > Copy**.
- 5 Browse to a folder on the device.
NOTE: For a removable drive or volume, you should not place files in the Garmin folder.
- 6 Select **Edit > Paste**.

Disconnecting the USB Cable

If your device is connected to your computer as a removable drive or volume, you must safely disconnect your device from your computer to avoid data loss. If your device is connected to your Windows computer as a portable device, it is not necessary to safely disconnect.

- 1 Complete an action:
 - For Windows computers, select the **Safely Remove Hardware** icon in the system tray, and select your device.
 - For Mac computers, drag the volume icon to the trash.
- 2 Disconnect the cable from your computer.

Customizing the Device

Map and Vehicle Settings

To open the Map and Vehicle settings, from the main menu, select **Settings > Map & Vehicle**.

Vehicle: Changes the icon to represent your position on the map. Go to www.garmin.com for more icons.

Driving Map View: Sets the perspective on the map.

Map Detail: Sets the level of detail on the map. More detail may cause the map to draw slower.

Map Theme: Changes the color of the map data.

Map Tools: Selects the shortcuts that appear in the map tools menu.

Map Layers: Sets the data that appears on the map page (page 6).

myMaps: Sets which installed maps the device uses.

Enabling Maps

You can enable map products installed on your device.

TIP: To purchase additional map products, go to www.garmin.com/us/maps.

- 1 Select **Settings > Map & Vehicle > myMaps**.
- 2 Select a map.

Navigation Settings

To open the Navigation settings page, from the main menu, select **Settings > Navigation**.

Calculation Mode: Sets route preference.

Avoidances: Sets road features to avoid on a route.

Custom Avoidances: Allows you to avoid specific roads or areas.

Advanced Detours: Sets the length of the detour.

Safe Mode: Disables all functions that require significant operator attention and could become a distraction while driving.

GPS Simulator: Stops the device from receiving a GPS signal, and saves battery power.

Route Preferences

To open the Calculation Mode settings page, from the main menu, select **Settings > Navigation > Calculation Mode**.

The route calculation is based on road speeds and vehicle acceleration data for a given route.

Faster Time: Calculates routes that are faster to drive but can be longer in distance.

Shorter Distance: Calculates routes that are shorter in distance but can take more time to drive.

Off Road: Calculates a direct line from your location to your destination.

Display Settings

To open the Display settings page, from the main menu, select **Settings > Display**.

Color Mode: Changes the brightness of the screen. Decreasing the brightness can save battery power.

Display Timeout: Sets the amount of idle time before your device enters sleep mode when you are not in an active route and the device is on battery power.

Brightness: Adjusts the display brightness.

Screenshot: Allows you to take a picture of the device screen. Screenshots are saved in the Screenshot folder of the device storage.

Orientation: Sets the screen orientation. The device automatically enters landscape mode when it is mounted in the optional motorcycle mount.

Bluetooth Settings

To open the Bluetooth settings, from the main menu, select **Settings > Bluetooth**.

Bluetooth: Enables Bluetooth wireless technology.

Discoverable: Allows wireless headsets and phones to find the device.

Friendly Name: Allows you to enter a friendly name that identifies your devices with Bluetooth wireless technology.

Disabling Bluetooth

- 1 Select **Settings > Bluetooth**.
- 2 Select **Bluetooth**.

Traffic Settings

To open the traffic settings page, from the main menu, select **Settings > Traffic**.

Traffic: Enables traffic.

trafficTrends™: Enables the trafficTrends feature.

Units and Time Settings

To open the Units and Time settings page, from the main menu, select **Settings > Units & Time**.

Current Time: Sets the device time.

Time Format: Allows you to select a 12-hour, 24-hour, or UTC display time.

Units: Sets the unit of measure used for distances.

Position Format: Sets the coordinate format and datum used for geographical coordinates.

Language and Keyboard Settings

To open the Language and Keyboard settings, from the main menu, select **Settings > Language & Keyboard**.

Voice Language: Sets the language for voice prompts.

Text Language: Sets all on-screen text to the selected language.

NOTE: Changing the text language does not change the language of user-entered data or map data, such as street names.

Keyboard Language: Sets the language for your keyboard.

Proximity Alerts Settings

Select **Settings > Proximity Alerts**.

Audio: Sets the style of alert that plays when you approach proximity points.

Alerts: Sets the type of proximity points for which alerts are played.

Device and Privacy Settings

To open the Device settings page, select **Settings > Device**.

About: Displays the software version number, the unit ID number, and information on several other software features.

EULAs: Displays the end-user license agreements that apply to your choice.

NOTE: You need this information when you update the system software or purchase additional map data.

Garmin Lock: Allows you to lock your device by entering a 4-digit PIN and setting a security location.

Travel History: Allows the device to record information for the myTrends, Where I've Been, and Trip Log features.

Clear Travel History: Clears your travel history for the myTrends, Where I've Been, and Trip Log features.

Restoring Settings

You can restore a category of settings or all settings to the factory default values.

- 1 Select **Settings**.
- 2 If necessary, select a settings category.
- 3 Select **≡ > Restore**.

Appendix

Power Cables

Your device can be powered various ways.

- Vehicle power cable
- USB cable
- AC adapter (optional accessory)

Charging the Device

You can charge the battery in the device using any of these methods.

- Connect the device to the vehicle power cable when it is in the automotive mount.
- Connect the device to a computer using the included USB cable.
- Connect the device to an optional power adapter accessory, such as a wall power adapter.

Device Care

NOTICE

Avoid dropping your device.

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Never use a hard or sharp object to operate the touchscreen, or damage may result.

Your device contains sensitive electronic components that can be permanently damaged when exposed to excessive shock or vibration that exceeds normal motorcycle or automobile use. To minimize the risk of damage to your device, avoid dropping and operating it in extreme high-shock and high vibration environments.

Cleaning the Outer Casing

NOTICE

Avoid chemical cleaners and solvents that can damage plastic components.

- 1 Clean the outer casing of the device (not the touchscreen) using a cloth dampened with a mild detergent solution.
- 2 Wipe the device dry.

Cleaning the Touchscreen

- 1 Use a soft, clean, lint-free cloth.
- 2 If necessary, lightly dampen the cloth with water.
- 3 If using a dampened cloth, turn off the device and disconnect the device from power.
- 4 Gently wipe the screen with the cloth.

Avoiding Theft

- Remove the device and mount from sight when not in use.
- Remove the residue left on the windshield by the suction cup.

- Do not keep your unit in the glove compartment.
- Register your device at <http://my.garmin.com>.

Extending the Battery Life

- Keep your device away from extreme temperatures.
- Put the device in sleep mode ([page 2](#)).
- Decrease the screen brightness.
- Do not leave your device in direct sunlight.
- Disable Bluetooth ([page 12](#)).
- Shorten the display timeout time.

Replacing the Battery

If you need to replace the battery in the device, contact your BMW Motorrad dealer. Contact your local waste disposal department for information about proper disposal of the battery.

Locking the Device

Garmin Lock is a theft-deterrent system that locks your device. Each time you turn on the device, enter the 4-digit PIN or drive to the security location.

- 1 Select **Settings** > **Device** > **Garmin Lock**.
- 2 Select **Lock Device**.

Changing the Fuse in the Vehicle Power Cable

NOTE: The vehicle power cable is an optional accessory.

NOTICE

When replacing the fuse, do not lose any of the small pieces and make sure they are put back in the proper position. The vehicle power cable does not work unless it is assembled correctly.

If your device does not charge in your vehicle, you may need to replace the fuse located at the tip of the vehicle adapter.

- 1 Unscrew the end piece ①.



- 2 Remove the end piece, the silver tip ②, and the fuse ③.
- 3 Install a 3 A fast-blow fuse.
- 4 Place the silver tip in the end piece.
- 5 Screw the end piece back into the vehicle power cable ④.

Purchasing Additional Maps

- 1 Go to your device product page at (www.garmin.com).
- 2 Click the **Maps** tab.
- 3 Follow the on-screen instructions.

Safety Cameras

NOTICE

Garmin is not responsible for the accuracy of or the consequences of using a custom point of interest or a safety camera database.

Safety camera information is available in some locations. Check www.garmin.com/safetycameras for availability. For these locations, you can purchase a subscription for safety camera information. The subscription includes the locations of hundreds of safety cameras. Your device alerts you when you are approaching a safety camera and can warn you if you are driving too fast. The data is updated at least weekly, so you can

update your device regularly to receive the most up-to-date information.

You can purchase a new region or extend an existing subscription at any time. Each region that you purchase has an expiration date.

Custom Points of Interest

Custom POIs are customized points on the map. They can contain alerts that let you know if you are near a designated point or if you are traveling faster than a specified speed.

Installing POI Loader

You can create or download custom POI lists on your computer and install them on your device using POI Loader software.

- 1 Go to www.garmin.com/poiloader.
- 2 Follow the on-screen instructions.

Using the POI Loader Help Files

For more information on the POI loader, refer to the Help file.

With the POI loader open, click **Help**.

Finding Custom POIs

Before you can find custom POIs, you must load custom POIs on your device using the POI Loader software ([page 13](#)).

- 1 Select **Where To?** > **Categories**.
- 2 Scroll to the Other Categories section, and select a category.

Purchasing Accessories

Go to <http://buy.garmin.com>.

Troubleshooting

My device is not acquiring satellite signals

- Verify the GPS simulator is turned off.
- Take your device out of parking garages and away from tall buildings and trees.
- Remain stationary for several minutes.

The device does not charge in my vehicle

- Check the fuse in the vehicle power cable.
- Verify the vehicle is turned on and is supplying power to the power outlet.
- Verify the interior temperature of the vehicle is between 32° and 113°F (between 0° and 45°C).
- Verify the fuse is not broken in the vehicle power outlet.

The touchscreen is not responding to my touches

- 1 Turn off the device.
- 2 Hold your finger on the upper-left corner of the screen. The calibration screen appears.
- 3 Follow the on-screen instructions.

The suction cup will not stay on my windshield

- 1 Clean the suction cup and windshield with rubbing alcohol.
- 2 Dry with a clean, dry cloth.
- 3 Mount the suction cup.

My battery does not stay charged for very long

- Decrease the screen brightness.

- Shorten the display timeout.
- Disable Bluetooth wireless technology ([page 12](#)).
- Put the device in sleep mode when not in use ([page 2](#)).
- Keep your device away from extreme temperatures.
- Do not leave your device in direct sunlight.

The battery gauge does not seem accurate

- 1 Allow the device to fully discharge.
- 2 Fully charge the device without interrupting the charge cycle.

My device does not appear as a removable drive on my computer

On most Windows computers, the device connects using Media Transfer Protocol (MTP). In MTP mode, the device appears as a portable device and not as a removable drive. MTP mode is supported by Windows 7, Windows Vista®, and Windows XP Service Pack 3 with Windows Media Player 10.

My device does not appear as a portable device on my computer

On Mac computers and some Windows computers, the device connects using USB mass storage mode. In USB mass storage mode, the device appears as a removable drive or volume, and not as a portable device. Windows versions prior to Windows XP Service Pack 3 use USB mass storage mode.

My device does not appear as either a portable device or a removable drive or volume on my computer

- 1 Disconnect the USB cable from your computer.
- 2 Turn off the device.
- 3 Plug the USB cable into a USB port on your computer and into your device.

TIP: Your device should be connected directly to a USB port on your computer and not to a USB hub.

The device automatically turns on and goes into MTP mode or USB mass storage mode. A picture of the device connected to a computer appears on the device screen.

My phone will not connect to the device

- Select **Settings > Bluetooth**.
The Bluetooth field must be set to **Enabled**.
- Enable Bluetooth wireless technology on your phone and bring your phone within 33 feet (10 m) of the device.
- Go to www.garmin.com/bluetooth for more help.

My device is locked up or frozen

- 1 Hold the power key for 10 seconds.
The device powers off.
- 2 Turn on the device ([page 1](#)).

I need to erase all my user data

- 1 Turn on the device.
- 2 When the copyrights display, hold the lower-right corner of the device screen.
- 3 Hold the screen until the message appears.
- 4 Select **Yes** to erase all user data.

Physical size (W × H × D)	136 × 83.4 × 24 mm (5.35 × 3.28 × 0.94 in.)
Weight	288 g (10.159 oz.)
Display	127 mm (5 in.) diagonal 800 × 480 pixels TFT display with white backlight and touchscreen
Case	Water resistant to IPX7
Operating temperature range	-20° to 55°C (-4° to 131°F)
Charging temperature range	0° to 45°C (32° to 113°F)
Data storage	Internal memory and optional removable memory card. Data stored indefinitely.
Computer interface	MTP over USB USB mass storage, plug-and play
Charge time	Up to 4 hours depending on the power source.
Power input	8–28 Vdc
Usage	10 Wmax.
Battery life	Up to 4 hours depending on usage and settings
Battery type	Removable lithium-ion battery

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