



NAVILOCK®



NL-324BTR
User manual (60706)

1. Introduction

You have purchased a reliable Navilock product in high quality. The NL-324BTR supplies your mobile navigation devices with TMC traffic information and is equipped with a power adapter (max. 1A via USB), for permanent operation of your navigation devices. It offers a *Bluetooth* class II interface with SSP (Serial Port Profile). You can use the NL-324BTR with most common navigation devices, with *Bluetooth* function. The NL-324BTR is compatible with the GNS TMC software interface thus it works well with most of the available navigation applications, available on the market.

1.1. Package content*

- 1x Navilock NL-324BTR
- 1x VHF short rod antenna
- 1x VHF loop antenna
- 1x USB Kabel

* Make sure that the product package contains all items before operation. If any item is missing or damaged, please contact your dealer immediately.



1.2 Interfaces / Control element

- 1= Car power adapter housing with internal VHF TMC receiver
- 2= USB charger port female
- 3= Bluetooth control LED
- 4= VHF antenna port
- 5= Screw cap with fuse underneath
- 6= Plus contact
- 7= Minus contact

Important health- and security information

If you use this product you should take precautions to avoid damages and legal consequences. Follow precisely all security- and handling advice and keep it carefully. Pay attention to all warning notices in the manual and on the device. To avoid injury, electric shock, fire and damages on the device, please pay attention to the following notices.

ELECTRICAL SECURITY

This product is made for operation with power from the Car power supply port. Do never touch inside the female port. Any other application can be dangerous and can lead to loss of warranty for this product. Do never let the device be plugged in the cigarette lighter after use. If the female port is not connected to the ignition, there will be danger of discharge of the battery. Protect the NL- 324BTR against humidity and stay within the limitations of operating and storage temperature (see specification). Replace the fuse only with the same nominal size (630mA Flink). Do not open or modify the NL-324BTR otherwise the warranty will expire. Inside there are no parts existing, which could be maintained through the user. Make sure you follow the rules of the respective country regarding the usage of such devices during the drive.

NOTE. RECYCLE OR DISPOSE THE PRODUCT ACCORDING TO THE APPLICABLE REGULATIONS.

**SECURITY ADVICE REGARDING DIRECT SUNLIGHT**

Do not expose the NL-324BTR to direct sunlight or heat. Do not cover it. Do not mount it on or near heat sensitive materials.

Damages, which require a repairing

Disconnect in the following cases the device from the grid and contact an authorized repairing specialist or the dealer:

- Liquidity or any item came into the product or an object got into the device.
- The product was exposed to rain or liquidity.
- The product fell down and is damaged.
- There are visible signs of overheating.
- The product does not work properly despite of correct operation.

Avoid using the device after high variation in temperature

If you expose the device to high variation in temperature or humidity, there may be condensation in the device. In order to avoid damages wait until the humidity is evaporated, before using it.

NOTE: If you bring the device from a cold into a warm or from a warm into a cold environment, let the device take over the temperature before switching it on.

2. Operation

Connect the NL-324BTR to the Car charger port. The blue LED should start blinking now. If it doesn't blink, please start the ignition. Thus the power supply port will be activated by the ignition. Do not clean the contacts of the female port on your own. We recommend you to get it done by a car specialist.

3. Bluetooth link

You can connect the device to any PNA/PND/PDA/Smartphone etc. which is equipped with a SPP compatible *Bluetooth*. For a reasonable operation you need a navigation software which supports the GNS protocol. At first please start the NL-324BTR, by plugging it into the cigarette lighter port. The blue LED should now blink. For some cars you need to start the ignition. Now start the *Bluetooth* manager on your PNA/PND/PDA/Smartphone etc. Follow the instructions on the display or may consult the manual of your PNA/PND/PDA/Smartphone etc. In case a PIN is required, please enter "0000". For Windows mobile 5 you need to set the serial port manually. After setting the COM ports, please leave the *Bluetooth* manager and start your navigation. Enter the given COM port no. into your navigation software as TMC-port.

4. FM Antenna

For receiving TMC a FM antenna is required. Use the included rod antenna or when having low reception signals, the loop antenna. Mount the loop antenna with the suction cup vertically to the windscreen. Due to the laws of physics the VHF reception inside a vehicle is not as good as outside. If you should not receive a TMC channel at your place, this could be caused by insufficient range of the VHF channel or the difficult reception conditions. Mountains, valleys, forests and deep street canyons may lower the reception or prevent it completely.

5. Charging function

The NL-324BTR has a power port for your PDA/ PND/ Smartphone. Thus a permanent operation is given. The integrated charging electronic is limited for devices of up to 1A. The included cable is suitable for devices with standard mini USB female port

6. Malfunction

The Navilock repair center aims to be as fair as possible. Therefore we kindly ask you to give us the true reason for a defect. During the fault analysis, the support needs to find out if a third party, a water damage, a downfall damage, over voltage or wrong handling might be the reason for that.



Often malfunctions are caused by minor errors. It is not always necessary to immediately replace a product, because this will not correct a malfunction that is not caused by the GPS hardware.

Before contacting your dealer, please contact Navilock support. This will provide you with help in a fast and easy manner, and help avoid unnecessary replacement.

In such cases, describe the malfunction as accurately as possible in writing, add the details for your device and the software you are using, and send an email to support@navilock.de.

A member of the support team will take care of your problem and work on a solution. We hope you enjoy your Navilock product!

7. Specification

General specification

Receiver type: digital synthesizer, DSP
Frequency band: 87.5 MHz to 108.0 MHz
Modulation type: FM
Sensitivity: typically 2.5 μ V (at 26dB audio S+N/N)
Antenna interface: 2.5 mm cinch

Charger port

Output: USB A female
Power and voltage: 5V (+/- 0.25V) / 1 A max.
Fuse: 630mA Flink / 6,4 x 31,8 mm

Surrounding conditions

Temperature: -20°C to +70°C operation, -20°C to +85°C storage

Physical features

Weight: 34 g
Dimension: 105 x 30 x 35 mm
Power supply : 10-28 Volt DC max. 0.7A

Technical changes are subject to change

8. Warranty period

Your GPS receiver will be repaired free of charge during the legal warranty period, provided the damage was not caused by external impact, moisture, fall or improper use. Your dealer will help you with words and deeds. Repairing goods can be send directly to

Navilock Repair Center
Beeskowdamm 13/15
D-14167 Berlin-Zehlendorf

Please send only parcels which are franked.

Please include a proof of purchase and a detailed error description. "doesn't work" or "defect" is not detailed. Please point out also how often a defect occurs. **Transmittals which are not franked cannot be accepted, due to logistic reasons.**

10. Support

If you have further questions, please contact our customer support:
support@navilock.de / www.navilock.com

You can find current product information on our homepage: www.navilock.com

11. Final clause

Information and data contained in this manual are subject to change without notice in advance. Errors and misprints excepted.

12. Copyright

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Declaration of conformity

The declaration of conformity can be found under www.navilock.de/support/ for download or can be received by email via konformitaet@navilock.de Radio-CE : Navilock NL-324BTR complies with the R&TTE. *Bluetooth* EMC Norm: EN 301489-1/-17; EN 300 328 is listed under Qualified Products. Although NL-324BTR complies to the strict rules, it is possible to guarantee that no other devices are being disturbed through interference.

WEEE-notice

The WEEE (Waste Electrical and Electronic Equipment)-directive, which became effective as European law on February 13th 2003, resulted in an all out change in the disposal of disused electro devices. The primary purpose of this directive is the avoidance of electrical waste (WEEE) and at the same time the support of recycling and other forms of recycling in order to reduce waste. The WEEE-logo on the device and the package indicates that the device should not be disposed in the normal household garbage. You are responsible for taking the disused electrical and electronic devices to a respective collecting point. A separated collection and reasonable recycling of your electrical waste helps handling the natural resources more economical. Furthermore recycling of electrical waste is a contribution to keep the environment and thus also the health of men. Further information about disposal of electrical and electronic waste, recycling and the collection points are available in local organizations, waste management enterprises, in specialized trade and the producer of the device.

Compliance with RoHS

This product complies with the directive 2002/95/EC of the European parliament and the council from January 27th 2003 concerning the restricted use of dangerous substances in electrical and electronic devices (RoHS) as well as its modification.

e- and E- mark

This product or a part of it complies with the EMV rules 2006/28/EG and ECE Regulation No.10 as electronic device or subassembly for vehicles. The NL-324BTR complies with the regulation no. 10.03 (E13).