



GNS 5870 MFI

GPS BT RECEIVER

Made for iPod touch 2G
iPod touch 3G
iPhone 3G
iPhone 3GS
iPad



smart touch
technology

GPS

 **Bluetooth®**

Made for



iPod



iPhone



iPad



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GPS BT RECEIVER MANUAL

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Dear Customer,

You have chosen a GNS product characterised by high-quality and reliability. All of our products are tested intensively before leaving the factory. Please read the following information carefully to ensure problem-free operation and optimal functionality.

The GNS 5870 MFI is a GPS receiver with *Bluetooth* technology and a highly sensitive 32-channel GPS chip. With the GNS 5870 MFI for the first time a highly sensitive *Bluetooth* –Hybrid-GPS (HGPS) receiver is available, which supplies both Apple iPod touch 2G, iPod touch 3G, iPhone 3G, iPhone 3GS, (starting with iPhone OS 3.0.1), iPad, and other handhelds (PDAs, Notebooks) with accurate position informations.

The GNS 5870 MFI enables the utilisation of the following:

- a) Positioning signals from the worldwide freely available GPS navigation system.
- b) Transfer of these informations over wireless *Bluetooth* communication.

Safety notices

- Never manipulate or adjust your GPS Navigation System while driving.
- Safeguard the GNS 5870 MFI from moisture; observe the limits on operating and storage temperatures.
- This device contains a Li-Ion battery and should only be operated at temperatures between 0° and 50° C. Do not expose the GNS 5870 MFI to direct sunlight or heat.
- Do not open or modify. Failure to comply will result in the guarantee and warranty becoming void. There are no components inside that can be serviced by the user.
- Only connect the GNS 5870 MFI to the connector types described in these instructions.
- Be sure to respect the laws of the country you are in with respect to operation of devices whilst driving.

- Do not operate the GNS 5870 MFI with a damaged cord or if the unit has been dropped or damaged.
- Do not bend the cable forcibly or place a heavy object on it. This will damage the cord and may cause fire or electrical shock.
- Ensure that your GNS 5870 MFI is firmly fixed in your car to avoid damage.

Package contents

- GNS 5870 MFI GPS BT Receiver
 - Cigarette-lighter charger device and charger cable
 - This instruction booklet
- Should anything be missing, please contact your dealer.

Operating buttons and LEDs

The GNS 5870 MFI has an on/off switch with „STT **SmartTouchTechnology**“: To switch on your GNS 5870 MFI, move your finger from top to bottom over the LEDs, and from bottom to top to switch it off.



Charging

The GNS 5870 MFI is equipped with a Li-Ion rechargeable battery. Operating times are in excess of 10 hours. For charging (charging time approx. 3.5 hours) connect the charging cable as supplied to the cigarette-lighter charger device and the GNS 5870 MFI. The red indicator light blinks to indicate that the device is charging. You can also use the loading cable to charge the GNS 5870 MFI at PC USB connectors.

Illuminated display

	Red charging light	Blue Bluetooth status	Green GPS status
Off	Normal	5870 MFI is off	5870 MFI is off
On	Charger cable attached, battery fully charged	Bluetooth connection established	GPS position received
Blinking	Charger cable attached, battery charging	No Bluetooth connection established	GPS position not (yet) calculated
Fast blinking	Battery almost empty, device switching off in about 10 mins	-	-

Installation and *Bluetooth* mode

Position the GNS 5870 MFI so that it has an unobstructed „view“ of the sky. Secure the receiver to avoid slipping. Switch on the GNS 5870 MFI.

Activate the *Bluetooth* mode in your Apple device / PDA / PC and initiate a search for the GNS 5870 MFI with your Apple device or other PDA / PC *Bluetooth* manager. This is described in the manual for your device. When asked for the PIN to establish the link, enter „0000“.

Start your navigation software and select the appropriate interface under the GPS settings if it is required.

Special feature for Apple devices: After the first connection build up with the Apple device, the connection will be automatically renewed by restarting the GNS 5870 MFI.

This automatic connection establishment will be interrupted when you connect your GNS 5870 MFI with another device intermediately.

Operation over car ignition

For fixed and unfixed installation and operation in motor vehicles with 12-24V power supply.

The GNS 5870 MFI is equipped with an automatic activator switch for the use in vehicles. If your vehicle has a cigarette lighter socket, which is connected to the ignition, and the GNS 5870 MFI is connected via the included charging adapter there, it turns on automatically when the ignition is activated. After activation the device shows the same illuminated display as described in the manual under "Illuminated Display".

Power management

1. Without external power supply (cable/car ignition off) the GNS 5870 MFI will shut down automatically after 15 minutes without *Bluetooth* connection to save battery time.
2. If GNS 5870 MFI is installed easily accessible (e.g. glove box) it can be switched off by using the **SmartTouchTechnology** on/off switch as described under „Power management“ in this manual.
3. To switch the GNS 5870 MFI on again, connect it with the power cable again or use **SmartTouchTechnology** on/off switch for portable use.

Reset

If you should experience an unexpected malfunction - e.g. no data is sent, the partner device does not recognize the GNS 5870 MFI or the display shows a malfunction - please carefully insert a paper clip or similar object into the opening and press the reset key.

Approvals

The declaration of conformity is available from the manufacturer.

CE: The GNS 5870 MFI satisfies the R&TTE directives (99/5/EG), the EMC directives (2004/108/EC) and the low voltage directive (2006/95/EC) as issued by the EU commission.

FCC: This device conforms to section 15 of the FCC regulations.

R&TTE *Bluetooth* EMC: This device also complies with EN 301489-1/-17; EN 300 440; EN 300 328 (Modul) and is listed under *Bluetooth* Qualified Products.

Although the GNS 5870 MFI conforms to the current strict guidelines and norms it cannot be guaranteed that other devices will not be affected by interference.

Technical data

General		
Weight	5870 MFI only	47g
Dimensions	79.1mm x 45.3mm x 11.3mm	
Ambient temperatures	Storage	-10..+40°C
	Operation	- 0..+50°C
Power supply and consumption	Charging & operation	5.0V DC (+-5%) /500mA
	Via car adapter	12..24VDC / 10..300mA
Battery operating time	> 10 h	
Battery charging time	0-90% ca. 3.5h	
Connectors	Supply	Mini-USB socket
Data interface	Via Bluetooth	57600 baud
GPS		
Chip set	MediaTek MTK 3318 32-channel GPS receiver	
Start times	Cold start	60 s
	Warm start	3 s
	Hot start	1 s

Safety notice, *Bluetooth* operation

Bluetooth should not be used in the proximity of the following devices or in the following locations:

Medicinal devices, pacemakers, automatic control devices, automatic doors, fire alarms, aeroplanes, public transport. If you are unsure if the operation of wireless devices is permitted in certain environments, please enquire before operating the device.

WEEE declaration

This device is labelled in accordance with the European directive 2002/96/EG concerning waste electrical and electronic equipment – WEEE. The directive sets down a Europe-wide framework for the return and recycling of end-of-life devices. WEEE reg. no. DE 30136236.

Warranty notice

The product is to be repaired at no cost within the legal warranty period of 24 months assuming that there is no damage though third-party interference, moisture, being dropped, or other improper handling.

The internal Li-Ion accumulator has a warranty period of 6 month and is excluded from the 24 month warranty!

Technical Support:



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"Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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Notes / Notizen



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