

**GARMIN**<sup>®</sup>

**GXM 42**

Owner's Manual



© 2013-2014 Garmin Ltd. or its subsidiaries. All rights reserved.

This manual reflects the operation of System Software version 1.00, or later. Some differences in operation may be observed when Comparing the information in this manual to later software versions.

Garmin International, Inc., 1200 East 151st Street, Olathe, KS 66062, U.S.A.

Tel: 913/397.8200 Fax: 913/397.8282

Garmin AT, Inc., 2345 Turner Road SE, Salem, OR 97302, U.S.A.

Tel: 503/391.3411 Fax 503/364.2138

Garmin (Europe) Ltd.

Liberty House, Hounslow Business Park, Southampton, Hampshire SO40 9LR U.K.

Tel:44 (0) 23 8052 4000 Fax:44 (0) 23 8052 4004

Aviation Support:44 (0) 87 0850 1243

Garmin Corporation, No. 68, Zhangshu 2nd Road, Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Tel: 886/02.2642.9199 Fax: 886/02.2642.9099

[www.garmin.com](http://www.garmin.com)

Except as expressly provided herein, no part of this manual may be reproduced, copied, transmitted, disseminated, downloaded or stored in any storage medium, for any purpose without the express written permission of Garmin. Garmin hereby grants permission to download a single copy of this manual and of any revision to this manual onto a hard drive or other electronic storage medium to be viewed for personal use, provided that such electronic or printed copy of this manual or revision must contain the Complete text of this copyright notice and provided further that any unauthorized Commercial distribution of this manual or any revision hereto is strictly prohibited.

Garmin® is a registered trademark of Garmin Ltd. or its subsidiaries. This trademark may not be used without the express permission of Garmin.

SiriusXM® is a registered trademark of SiriusXM Satellite Radio Inc.

March, 2014

190-01622-00 Rev. C

Printed in Taiwan.

## **LIMITED WARRANTY**

---

This Garmin product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs.

This product is intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location, or topography. Garmin makes no warranty as to the accuracy or completeness of map data in this product.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY

ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Garmin retains the exclusive right to repair or replace the unit or software or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local Garmin authorized dealer or call Garmin Product Support for shipping instructions and an RMA tracking number. Securely pack the unit and a copy of the original sales receipt, which is required as the proof of purchase for warranty repairs. Write the tracking number clearly on the outside of the package. Send the unit, freight charges prepaid, to any Garmin warranty service station.

**Online Auction Purchases:** Products sold through online auctions are not eligible for rebates or other special offers from Garmin. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Garmin will not replace missing components from any package purchased through an online auction.

**International Purchases:** A separate warranty is provided by international distributors for units purchased outside the United States. This warranty is provided by the local in-country distributor and this distributor provides local service

for your unit. Distributor warranties are only valid in the area of intended distribution. Units purchased in the United States or Canada must be returned to the Garmin service center in the United Kingdom, the United States, Canada, or Taiwan for service.

To obtain warranty service, contact your local Garmin Authorized Service Center. For assistance in locating a Service Center near you, visit the Garmin web site at <http://www.garmin.com> or contact Garmin Customer Service at 866-739-5687.



---

**WARNING:** This unit provides the ability to receive weather information through SiriusXM data. Use weather data only as an aid to situational awareness. Such weather information is merely supplemental and advisory in nature and is not intended to be relied upon as safety-critical information in connection with any aviation, vehicle, or marine usage. The user should always exercise caution and common sense when confronted with severe weather conditions.

---



---

**WARNING:** Do not use data link weather information for maneuvering in, near or around areas of hazardous weather. Information contained within data link weather products may not accurately depict current weather conditions.

---



---

**WARNING:** Do not use the indicated data link weather product age to determine the age of the weather information shown by the data link weather product. Due to time delays inherent in gathering and processing weather data for data link transmission, the weather information shown by the data link weather product may be significantly older than the indicated weather product age.

---



---

**WARNING:** This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is provided in accordance with California's Proposition 65. See [www.garmin.com/prop65](http://www.garmin.com/prop65) for more information.

---



---

**NOTE:** All visual depictions contained within this document, including screen images of the panel and displays, are subject to change and may not reflect the most current system and databases. Depictions of equipment may differ slightly from the actual equipment.

---

## **PRODUCT SUPPORT**

---

Help us better support you by completing your online registration today! Have the serial number of your product handy and connect to the Garmin web site ([www.garmin.com](http://www.garmin.com) or <https://fly.garmin.com/fly-garmin>). Look for the Product Registration link on the Home page. Also, be sure to record your serial number in the space provided.

## **SERVICING YOUR UNIT**

The Garmin GXM 42 has no user-serviceable parts. Should you ever encounter a problem with your unit, take it to an authorized Garmin dealer for repairs, or contact Garmin Product Support at 1-866-739-5687.

The GXM 42 is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way voids your warranty and may result in permanent damage to the equipment.

If efforts to resolve the problem fail, Garmin customer service staff will gladly assist you.

Please have the following information ready:

- System configuration (products, antennas, mounting locations, etc.)
- Model No., part number, and serial number
- Software versions
- Description of the problem
- Efforts made to isolate/solve the problem

If you have any questions, the Garmin Product Support department may be reached Monday through Friday, 7:00 AM to 7:00 PM Central Time.

US: 913-397-8200

US Toll Free: 1-866-739-5687

Canada Toll Free: 1-866-429-9296

e-mail: [aviation.support@garmin.com](mailto:aviation.support@garmin.com).

<http://www.garmin.com>

<https://fly.garmin.com/fly-garmin>

## **SERIAL NUMBER**

Use the line below to record the serial number in case it is lost, is stolen, or needs service. The serial number is located on the bottom of your unit. Keep your original sales receipt in a safe place or attach a photocopy inside the manual.

Serial Number:

---

The GXM 42 SiriusXM Radio Receiver provides aviation SiriusXM Weather information for viewing on your Garmin® unit. Operating the GXM 42 requires a subscription to the SiriusXM Radio or Weather service. The GXM 42 also offers music, news, and talk programming with a subscription to the SiriusXM Radio service. SiriusXM subscriptions are sold separately.

To get the most out of your new system, take the time to go through this manual and the Owner's Manual for your unit. Operational procedures are found in the Owner's Manual for your unit.

## **MANUAL CONVENTIONS**

---

- This manual refers to the GXM 42 SiriusXM Radio Receiver as the GXM 42.
- All Garmin products that are compatible with the GXM 42 are referred to as "Garmin unit" throughout this manual.

## **UNIT CARE**

---

**Cleaning** – The case for the unit is constructed of high-quality material and does not require user maintenance other than cleaning. Clean the unit housing using a lightly-dampened cloth with a mild detergent solution and then wipe it dry. Avoid chemical cleaners and solvents that may damage plastic components. Do not apply cleaner to the electrical contacts on the unit.

**Storage** – Do not store the GXM 42 where exposure to extreme temperatures may occur, as permanent damage may result.

## **ACTIVATING A SiriusXM SUBSCRIPTION**

SiriusXM offers several subscription options. Go to <http://www.siriusxm.com/sxmaviation> to determine which subscription package is best for your needs.

Before you can activate your SiriusXM subscription, you must have the radio ID of your antenna. The radio ID is available in the product box, and on the System Information Page of a connected device. See the owner's manual provided with your device for more information.

1. Contact SiriusXM by phone at (866) 528-7474 or go to <http://care.siriusxm.com> to subscribe.
2. Provide the necessary information to the SiriusXM representative or on the web site to activate your antenna.
3. Verify the functionality of the activated services:
  - For SiriusXM weather, on a connected device, view the Weather Products list and confirm that your

subscribed services are listed. See the owner's manual provided with your device for more information.

- For SiriusXM radio, on a connected device, go to the SiriusXM Page and confirm that radio channels are available. See the owner's manual provided with your device for more information.
4. If the service is not activated within the hour, go to <http://care.siriusxm.com/refresh> or contact SiriusXM by phone at 1-855-MYREFRESH (697-3373).

NOTE: For the antenna to receive the SiriusXM signal, it must be powered on, facing skyward, and tuned to channel 1.



**GXM 42 Radio Receiver**

## **SPECIFICATIONS**

---

Size (W × H): 3.2 × 0.9 in. (81 × 23.5 mm)

Weight: 4.5 oz. (132.5 g)

Storage Temperature Range: from -40°F to 185°F (from -40°C to 85°C)

Operating Temperature Range: from -4°F to 158°F (from -20°C to 70°C)

Case: Fully-sealed, high-impact plastic

Mount Thread Size: M3 × 0.5

Cable: Braided shield, 5 conductor, 28 AWG (0.081 mm<sup>2</sup>), right-angle male mini-B connector

## FCC COMPLIANCE

---

This device complies with part 15 of the FCC Rules and ICES-003. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules and ICES-003. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet that is on a different circuit from the GPS unit.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 and ICES-003 regulations.

## **SOFTWARE LICENSE AGREEMENT**

BY USING THE GXM 42, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin.

You acknowledge that the Software is the property of Garmin and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software are valuable trade secrets of Garmin and that the Software in source code form remains a valuable trade secret of Garmin. You agree not to decompile, disassemble, modify, reverse assemble,

reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America.

This product may include open source software. The following software is licensed under versions of the GNU General Public License (GPL) (<http://www.gnu.org/licenses/gpl.html>): 1. linux-2.6.30 ([www.kernel.org](http://www.kernel.org)); 2. u-boot-1.1.5 (<ftp.denx.de/pub/u-boot>); 3. busybox-1.18.4 ([www.busybox.net](http://www.busybox.net)); 4. mtd-utils-1.1.0 ([git.uclibc.org](http://git.uclibc.org)). Copies of this GPL-licensed source, and modifications thereto, may be freely found at [developer.garmin.com](http://developer.garmin.com). The following software is distributed under other licenses: 1. zlib ([www.zlib.net](http://www.zlib.net), Copyright (C) 1995-2012 Jean-loup Gailly and Mark Adler); 2. Atmel bootloader ([www.atmel.com/tools](http://www.atmel.com/tools)).

## **SiriusXM SATELLITE RADIO SERVICE AGREEMENT**

---

### **SiriusXM SATELLITE RADIO INC.**

Hardware and required monthly subscription sold separately. USER ACKNOWLEDGES THAT GARMIN HAS NO CONTROL OVER THE TERMS AND REQUIREMENTS OF THE SUBSCRIPTION. COMPATIBILITY OF HARDWARE EQUIPMENT WITH THEN-CURRENT SUBSCRIPTION OFFERING OF SERVICE PROVIDER IS ALSO BEYOND GARMIN'S CONTROL. GARMIN SHALL HAVE NO LIABILITY IF CHANGES IN SERVICE PROVIDER'S SUBSCRIPTION OFFERING NEGATIVELY IMPACTS OR RENDERS IMPOSSIBLE THE USE OF PURCHASED GARMIN HARDWARE EQUIPMENT WITH THE SERVICE PROVIDER'S OFFERING IN THE FUTURE. Subscription fee is consumer only. Other fees and taxes, including a one-time activation fee may apply. All programming fees and weather data

subject to change. SiriusXM weather data and individual product availability vary by hardware equipment. Reception of the SiriusXM signal may vary depending on location. Subscriptions subject to Customer Agreement included with the SiriusXM Welcome Kit and available at [www.siriusxm.com](http://www.siriusxm.com). USER ACKNOWLEDGES THAT GARMIN IS AN INTENDED THIRD PARTY BENEFICIARY OF SUCH CUSTOMER AGREEMENT, AND THAT ALL DISCLAIMERS CONTAINED THEREIN EQUALLY APPLY AS IF SUCH DISCLAIMERS WERE MADE DIRECTLY BY GARMIN. Available only in the 48 contiguous United States.

THE USER AGREES THAT THE SiriusXM WEATHER SERVICE OFFERING IS PROVIDED "AS IS", THAT YOUR GARMIN HARDWARE EQUIPMENT ONLY ALLOWS THE DISPLAY OF SUCH SERVICE OFFERING, AND THAT ANY CHANGES BY THE SERVICE PROVIDER MAY INTERFERE WITH THE ABILITY OF YOUR GARMIN HARDWARE EQUIPMENT TO RECEIVE OR DISPLAY SUCH SERVICE OFFERING. FURTHER, SUCH SERVICE OFFERING CONTAINS

INFORMATION FURNISHED BY OTHERS WHO ARE NOT UNDER THE CONTROL OF GARMIN, AND THEREFORE THE SERVICE OFFERING IS ACCORDINGLY FURNISHED WITHOUT ANY WARRANTY OF GARMIN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## **CAUTION - ADVISORY ONLY**

THE WEATHER INFORMATION IS SUBJECT TO SERVICE INTERRUPTIONS AND MAY CONTAIN ERRORS OR INACCURACIES AND CONSEQUENTLY SHOULD NOT BE RELIED UPON EXCLUSIVELY. YOU ARE URGED TO CHECK ALTERNATE WEATHER INFORMATION SOURCES PRIOR TO MAKING SAFETY RELATED DECISIONS. YOU ACKNOWLEDGE AND AGREE THAT YOU SHALL BE SOLELY RESPONSIBLE FOR USE OF THE INFORMATION AND ALL DECISIONS TAKEN WITH RESPECT THERETO. BY USING THIS SERVICE, YOU RELEASE AND WAIVE ANY CLAIMS AGAINST SiriusXM RADIO INC., WSI, NAVCAST INCORPORATED, AND GARMIN SWITZERLAND GmbH AND ALL OF THEIR RESPECTIVE AFFILIATES WITH REGARD TO THIS SERVICE.

## **USER SAFETY**

If you use SiriusXM Services it is your responsibility to exercise prudent discretion and observe all safety measures required by law and your own common sense. You assume the entire risk related to your use of the Services. SiriusXM and Garmin assume no responsibility for accidents resulting from or associated with use of the Services. Your Radio Service includes traffic and weather information, and you acknowledge that such information is not for “safety for life”, but is merely supplemental and advisory in nature, and therefore cannot be relied upon as safety-critical in connection with any aircraft, or automobile usage. This information is provided “as is” and SiriusXM and Garmin disclaim any and all warranties, express and implied, with respect thereto or the transmission or reception thereof. SiriusXM and Garmin further do not warrant the accuracy, reliability, completeness or timeliness of the traffic and weather information disclosed on the Radio Service. In

no event will SiriusXM and Garmin, their data suppliers, service providers, marketing/distribution, software or Internet partners or hardware manufacturers be liable to you or to any third party for any direct, indirect, incidental, consequential, special, exemplary or punitive damages or lost profits resulting from use of or interruptions in the transmission or reception of the Services.

## **LIMITS ON OUR RESPONSIBILITY**

### a) DISCLAIMERS.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, WE MAKE NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, REGARDING THE RADIO SERVICE. YOUR USE OF THE SERVICE IS AT YOUR SOLE RISK. THE CONTENT AND FUNCTIONALITY OF THE SERVICE IS PROVIDED “AS IS” WITHOUT ANY WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. ALL SUCH WARRANTIES OR REPRESENTATIONS (INCLUDING, WITHOUT LIMITATION, THE IMPLIED

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT) ARE HEREBY DISCLAIMED.

b) LIMITATIONS OF LIABILITY.

WE ARE NOT RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES RELATING TO THE USE OF THE RADIO SERVICE, WHETHER BASED ON NEGLIGENCE OR OTHERWISE. OUR TOTAL LIABILITY TO YOU AND ANY OTHER PERSONS RECEIVING OUR SERVICES, REGARDLESS OF THE CAUSE, WILL IN NO EVENT EXCEED THE AMOUNTS THAT YOU HAVE PAID TO US FOR THE SERVICE THAT YOU RECEIVED DURING THE SIX (6) MONTH PERIOD IMMEDIATELY PRIOR TO THE SPECIFIC EVENT THAT GAVE RISE TO THE APPLICABLE DAMAGE OR LOSS. THIS ALLOCATION OF RISK IS REFLECTED IN OUR PRICES. YOU MAY HAVE GREATER RIGHTS THAN DESCRIBED ABOVE UNDER YOUR STATE'S LAWS.

a. Under 10 U.S.C. 456, no civil action may be brought against the United States on the basis of the content of a navigational aid prepared or disseminated by either the former Defense Mapping Agency (DMA), National Imagery and Mapping Agency (NIMA), or the National Geospatial-Intelligence Agency (NGA).

b. The DAFIF™ product is provided "as is," and no warranty, express or implied, including, but not limited to the implied warranties of merchantability and fitness for particular purpose or arising by statute or otherwise in law or from a course of dealing or usage in trade, is made by NGA as to the accuracy and functioning of the product.

c. Neither NGA nor its personnel will be liable for any claims, losses, or damages arising from or connected with the use of this product. The user agrees to hold harmless the United States National Geospatial-Intelligence Agency. The user's sole and exclusive remedy is to stop using the DAFIF product. This product was developed using DAFIF, a product of the National Geospatial-Intelligence Agency.

## **TFR DATA**

Temporary Flight Restriction (TFR) data is provided by the FAA and may not be updated outside of normal business hours. Confirm data currency through alternate sources and contact your local FSS for interpretation of TFR data. This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, or the United States Department of Defense (10 U.S.C. 425).

**GARMIN**  ®