



Bad Elf Wombat User Manual

Wombat (BE-DSL-3000)

Introduction

Thank you for purchasing the Bad Elf Wombat! We designed the Wombat for pilots and boaters, allowing them to transfer files between their iOS device and installed equipment such as avionics and chartplotters.

Key features include:

- Supports transferring files, over Wi-Fi, between iOS devices and removable media including SD cards and USB memory sticks.
- Integrated 9000mAH battery supports simultaneous charging of an iPad (2.4A) and iPhone (1.0A) or other USB device.
- Standalone data log collection mode copies files to the Wombat's internal memory without requiring an iOS device to be present. The files can then be copied to the iOS device at a later time.

What's in the Box?

- Wombat
- Micro-USB charging cable
- 2GB MicroSD card with full-size SD card adaptor
- User Manual

Quick Start Guide

1. Verify the Wombat is charged by pressing the top (silver) button, which will illuminate between 0 and 4 of the round, blue LED indicators to indicate charge status (0-100% charged). If you do not see at least one LED illuminated, you should charge it before continuing, using the provided Micro-USB cable plugged into any USB power source (computer, wall wart adapter, etc. -- not provided).
2. Install the free “Bad Elf Wombat” utility app onto your Apple iOS device (iPad, iPhone, or iPod touch) via Apple’s iTunes App Store. You can search for “Bad Elf Wombat” on your iOS device, or visit our website at bad-elf.com/wombat for the download link. Your iOS device will need Internet connectivity (over Wi-Fi or cellular) to download the app.
3. Open the Bad Elf Wombat app and follow the instructions to register your Wombat and to configure the app for your use-case scenarios. If prompted for the Wombat serial number, you will find it on the packaging label or on a card provided inside the package. If you do not have either of these, follow the prompts in the app.
4. Turn the Wombat ON by sliding the power switch on the side of the Wombat to the ON position, labeled with a battery icon with arrows inside. The red power LED on the top of the Wombat should illuminate. The Wombat will be ready to use in approximately 40 seconds, when the red power LED and the blue Wi-Fi LED are illuminated and not flashing.
5. On your iOS device, open the Settings app and visit the Wi-Fi page. Make sure Wi-Fi is turned ON. You should see “Bad Elf Wombat #NNNNNNN” (with your unique serial number) in the list of available access points. Click on this entry to connect to the Wombat. You will be prompted for a security key, which is 12345678 by default.

6. Re-open the Bad Elf Wombat app, which should now detect the Wombat device.
7. Follow the directions in the Bad Elf Wombat app for your particular use-case scenarios.

Charging Your Wombat

The Bad Elf Wombat can be charged, using the supplied Micro-USB cable, from any USB charging source.

1. Connect the Wombat to a USB power source using the supplied Micro USB charging cable.
2. One of the LED fuel gauge LEDs should start blinking, indicating the Wombat is charging.
3. When charging is complete, the fuel gauge LED will stop blinking. At some point all of the LEDs will turn off to conserve power. Press the fuel gauge button to check the charge level.

NOTES:

- The Wombat will charge faster when connected to a 2.1A or 2.4A charger, such as the wall charger that comes with the Apple iPad.
- If you lose the Micro USB cable, any Micro USB cable will work, although it should be heavy-duty for the maximum charge rate.
- Depending on the USB power source, charging the Wombat from empty to full will take 4-8 hours.

Standalone Flight and Engine Log Collection

You can use your Wombat to transfer flight and engine logs to your iOS device from most avionics that support exporting logs via SD card or USB stick. Once these logs are on your iOS device, you can upload them to Internet-based sites for further analysis or visualization.

To reduce pilot workload after a flight, the Wombat supports a standalone mode where it can collect flight logs without requiring your iOS device to be present. The logs are stored in the Wombat's internal memory, and

they can be transferred to your iOS device at a later date when it is more convenient.

To collect logs in standalone mode:

1. Turn the Wombat ON by sliding the switch on the side of the Wombat. It will take approximately 40 seconds to start up. It is ready to use when the red power LED and the blue Wi-Fi LED are illuminated and not flashing.
2. At any time, insert your USB key or SD card. Once the Wombat has started up and detects the USB key or SD card, it will scan for new logs and copy them to the Wombat's internal memory. During this process you will see the green USB or SD card indicator LED flash, and the red Wi-Fi indicator LED will be flashing.
3. When all new logs have finished transferring, the LEDs will stop flashing. At that point, it is safe to remove your SD card or USB key from the Wombat. If you have multiple cards, you can insert the next one to repeat the process.
4. When you are done, you can turn the Wombat OFF by sliding the switch on the side of the Wombat.

Transferring Flight and Engine Logs

To retrieve engine, flight, or sonar logs from an SD card or USB key, just connect your iOS device to the Wombat Wi-Fi network and open the Bad Elf Wombat iOS utility app. Follow the prompts in the app to transfer the files to your iOS device.

Transferring NavData or Chartplotter Databases

Please follow the directions in the Bad Elf Wombat utility app to transfer databases onto the SD card or USB memory key.

Charging Your iPhone, iPad, or Other Devices with Your Wombat

The Wombat has two USB charging ports capable of charging cell phone and tablets. The USB port on the end of the Wombat, near the SD card slot, provides 1.0A charging current suitable for cell phones. The USB port on the side of the Wombat can provide 2.4A charging current, which is ideal for the iPad and other tablets. You may have to push the fuel gauge button (on the top of the unit) to wake up the Wombat and start charging your connected devices.

Troubleshooting

If you are having problems with your Bad Elf Wombat accessory, please follow these steps:

1. Verify the Wombat is charged using the provided Micro-USB cable from any USB source.
2. Turn the Wombat OFF and then back ON to see if that fixes the software system.
3. Visit Bad Elf support page located at <http://bad-elf.com/support>.
4. If that does not resolve the issue, contact us via email to support@bad-elf.com.

Technical Specifications

- Battery capacity: 9000mAh
- Battery type: 3 x Samsung 18650 lithium-ion
- Charging time: 4-9 hours
- Input: 5V/1.5A
- Outputs: 5V/1A, 5V/2.4A
- Dimensions: 125.5 x 65 x 23.5 mm
- Weight: 205g
- Enclosure material: ABS+PC
- Wi-Fi: 802.11 b/g

FCC RF Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. Follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

IC Compliance

This Class [B] digital apparatus complies with Canadian ICES-003.

Battery Warnings

If these guidelines are not followed, the internal lithium-ion batteries may experience a shortened life span or may present a risk of damage to the product, fire, chemical burn, electrolyte leak, and/or injury.

Do not leave the product exposed to a heat source or in a high temperature location, such as in the sun in an unattended vehicle (e.g., car, airplane, helicopter, or boat). To prevent damage, remove the product from the vehicle or store it out of direct sunlight.

- Observe the following temperature ranges:
 - Battery Powered: 14°F to 140°F (-10°C to 60°C)
 - Charging Temperature: 41°F to 113°F (5°C to 45°C)
 - Storage Temperature: -22°F to 140°F (-30°C to 60°C)
- Do not use a sharp object to open the GPS enclosure or attempt to remove the battery.
- Do not incinerate the GPS or the battery enclosed therein.
- Do not disassemble, puncture, or damage the GPS or the battery.
- Keep the battery away from children.

- If using an external battery charger, only use the accessory approved for your product.
- Contact your local waste disposal department to properly recycle the battery.
- Do not attempt to replace the battery with a replacement battery

FCC Compliance

This product has been tested and found to comply with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than “outdoor” requirements.

Operation of this device is subject to the following 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 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 Bad Elf 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 regulations

Limited Warranty

This Bad Elf product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Bad Elf 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.

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 BAD ELF 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. Bad Elf 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 Bad Elf authorized dealer or call Bad Elf Product Support for shipping instructions and a Return Merchandise Authorization (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 RMA tracking number clearly on the outside of the package. Send the unit, freight charges prepaid, to any Bad Elf warranty service station.

Online Auction Purchases: Products sold through online auctions are not eligible for rebates or other special offers from Bad Elf. 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. Bad Elf will not replace missing components from any package purchased through an online auction.

International Purchases: International distributors provide a separate warranty for units purchased outside the United States. The local in-country distributor provides this warranty 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 must be returned to the Bad Elf service center in the United States for service.

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Contact Bad Elf Product Support if you have any questions while using your GPS.

In the USA, go to <http://bad-elf.com/support>.

FCC Information and Copyright

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.

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, if not installed and used in accordance with the instructions, may cause harmful interference

to radio communications. 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 or more of the following measures:

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

15.19 Labelling requirements.

This device complies with part 15 of the FCC Rules. 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.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF warning statement: the device has been evaluated to meet general RF exposure requirement , The device can be used in portable exposure condition without restriction.