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› GYROCOPTERS Frost Electric Bike (Model D3F) User Manual

GYROCOPTERS D3F

GYROCOPTERS Frost Electric Bike (Model D3F) User Manual

Your guide to safe and efficient operation of your new electric bike.

1. INTRODUCTION

Thank you for choosing the GYROCOPTERS Frost Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bike. Please read this manual thoroughly before your first ride and retain it for future reference. Adhering to these instructions will ensure optimal performance and longevity of your Frost Electric Bike.



Image: The GYROCOPTERS Frost Electric Bike, showcasing its compact design and integrated GPS tracking feature.

2. SAFETY INFORMATION

Your safety is paramount. The GYROCOPTERS Frost Electric Bike is designed with safety in mind, featuring UL 2849 certification and an advanced Battery Management System (BMS).

2.1 UL 2849 Certification

The Frost Electric Bike is UL 2849 Certified, indicating it has passed stringent safety tests for electrical, mechanical, and battery systems, ensuring compliance with high Canadian Safety Standards. This certification reduces the risk of malfunction or hazard during use.

2.2 Battery Management System (BMS)

The integrated BMS protects the battery from:

- **Overcharging:** Prevents damage from excessive charging.

- **Overheating:** Monitors and regulates battery temperature.
- **Overvoltage:** Protects against voltage spikes.
- **Overcurrent:** Safeguards against excessive current flow.
- **Short Circuit:** Prevents damage from electrical shorts.
- **Undervoltage:** Protects against deep discharge.
- **Fireproof Material:** Enhances overall battery safety.



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SAFETY & RELIABLE

Trusted E-Bike for You



UL 2849 Approved

Safety approved for Canada and the US laws, ensuring a secure e-bike that meets certain safety standards. UL2849 test:

- Brakes
- Battery Systems
- Electrical Components
- Mechanical Components
- Structural Integrity



Battery Management System (BMS)

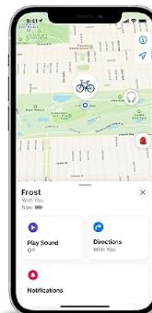
UL Approved Battery

Protect Battery from:

- Overload
- Undervoltage
- Short Circuit
- Over Temperature
- Overcurrent
- Fireproof Material
- Overvoltage



Smart World Tracker



FREE
GPS Tracker



Compatible with
Apple 'Find My'



Built-in
Privacy



Replaceable
Battery



Left Behind
Reminder

Image: Overview of the bike's safety features, including UL 2849 certification, BMS, and the Smart World Tracker.

2.3 General Safety Guidelines

- Always wear a helmet that meets safety standards.
- Familiarize yourself with local traffic laws and regulations for electric bikes.
- Perform a pre-ride inspection before each use (brakes, tires, battery level, quick releases).
- Do not ride under the influence of alcohol or drugs.

- Avoid riding in adverse weather conditions (heavy rain, snow, ice) or on slippery surfaces.
- Ensure proper lighting is used when riding in low-light conditions.
- Maintain a safe distance from other vehicles and pedestrians.

3. PRODUCT OVERVIEW AND FEATURES

The GYROCOPTERS Frost Electric Bike is a compact, foldable e-bike designed for urban commuting and recreational use. Key features include:

- **Motor:** 350W Brushless High-Speed Motor.
- **Max Speed:** Up to 25 km/h (15.5 mph).
- **Range:** Up to 32 km (20 miles) in Pure Electric mode; up to 60 km (37 miles) with Pedal Assist. (Range varies based on terrain, rider weight, and battery condition).
- **Tires:** 14-inch Pneumatic Tires.
- **Brakes:** EABS Disc Brakes (Front and Rear).
- **Folding Design:** Easy one-step folding mechanism for portability and storage.
- **Anti-theft GPS Tracker:** World Tag compatible with iOS 'Find My' app for real-time location tracking.
- **Battery:** 36V Lithium-ion battery with advanced BMS.
- **Suspension:** Dual suspension for a comfortable ride.
- **Lighting:** Adjustable Headlight and Integrated Taillight.



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FROST

ELECTRIC CITY BIKE



25km/h (15miles/h)
Max Speed



60km (37miles)
Max Range (with pedal assist)



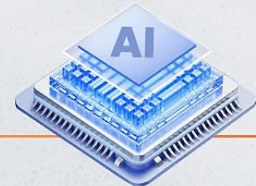
120kg/264.6lbs
Max Capacity



UL 2849
Certified

**MORE
POWERFUL
350W**

Easy for Uphill Riding



Smart GPS World Tracker

- Avoid losing your belongings
- Easy Location Tracking
- Left Behind Reminder

Image: Key specifications and features of the Frost Electric Bike.



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14-INCH PNEUMATIC TIRES MULTIPLE USE



Snow



Beach



Flat



Gravel



Image: The 14-inch pneumatic tires are designed for versatility across various terrains.

4. SETUP AND ASSEMBLY

The GYROCOPTERS Frost Electric Bike arrives 99% pre-assembled. Follow these steps for final setup:

1. **Unfold Handlebar:** Carefully unfold the handlebar until it locks into place. Ensure all locking mechanisms are secure.
2. **Set Up Bike Seat:** Insert the seat post into the frame and adjust the seat height to your comfort. Ensure the quick-release lever is securely fastened.
3. **Put the Pedals On:** Identify the left (L) and right (R) pedals. Thread the pedals into their respective crank arms. Turn the right pedal clockwise and the left pedal counter-clockwise to tighten. Use a wrench to ensure they are secure.
4. **Initial Battery Charge:** Before your first ride, fully charge the battery. Connect the charger to the bike's charging port and then to a power outlet. The indicator light on the charger will change when fully charged.



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EASY TO INSTALL

99% PRE-ASSEMBLED

1. Unfold Handlebar



2. Set Up Bike Seat



3. Put the Pedals On



Image: Visual guide for the three main assembly steps: unfolding the handlebar, installing the seat, and attaching the pedals.

5. OPERATING INSTRUCTIONS

5.1 Controls and Display

The handlebar features essential controls for your ride:

- **Power On/Off:** Press and hold the power button to turn the bike on or off.
- **Switch Speed Modes:** Press the speed mode button to cycle through 3 speed settings: 15 km/h, 20 km/h, and 25 km/h.
- **LCD Display:** Shows current speed, battery level, and other ride information.
- **Accelerate:** Twist the throttle grip to engage the electric motor.
- **Cruise Control:** Press once to activate/deactivate cruise control.
- **Headlight On/Off:** Press and hold for 5 seconds to turn the headlight on or off.

- **Bell:** Use the bell to alert others of your presence.



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HEADLIGHT ALIGNMENT

Choose your focus



FRONT AND REAR DUAL DISC BRAKES

Always safe



INTEGRATED TAILLIGHT

Clean look
Weather resistant
More durable



Image: Close-up of the handlebar controls and LCD display.

5.2 Riding Modes

The Frost Electric Bike offers three distinct riding modes:

- **Pure Electric Mode:** The motor provides all propulsion without pedaling. Ideal for effortless cruising.
- **Pedal Assist Mode:** The motor provides assistance as you pedal, extending your range and making climbs easier.
- **Normal Riding Mode:** Ride the bike like a traditional bicycle, using pedal power only.



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Pure Electric Mode

32km (20mi)



Pedal Assist Mode

60km (37mi)



Normal Riding Mode

Conquer the Miles

3 MODES

ENJOY YOUR TRIP

* Ebike speed and range may vary due to terrain, battery condition, and legal restrictions; estimates provided but not guaranteed by Gyrocopters



Image: Illustration of the three riding modes and their approximate ranges.

5.3 Braking

The bike is equipped with front and rear EABS Disc Brakes for reliable stopping power. Always apply both brakes simultaneously for balanced and effective braking. Practice braking in a safe area to become familiar with the bike's stopping distance.

5.4 Folding Mechanism

To fold the bike:

1. Ensure the bike is powered off.
2. Lower the seat to its lowest position.
3. Locate the folding latch on the main frame and release it.
4. Fold the frame in half until it locks into its folded position.
5. Fold the handlebars down using the quick-release mechanism.

6. Fold the pedals inward.

Reverse these steps to unfold the bike, ensuring all latches and quick releases are securely engaged before riding.



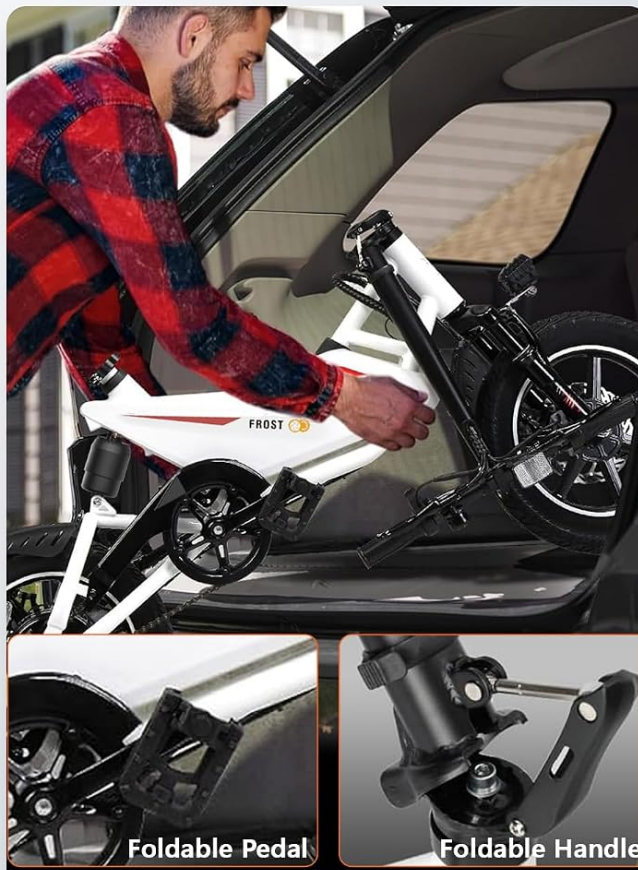
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FOLDING DESIGN

EASY TO CARRY



Portable - Light Weight



One-step Folding

Image: The folding design allows for easy transport and storage, highlighting foldable pedals and handle.

5.5 Anti-theft GPS Tracker (World Tag)

Your Frost Electric Bike includes an Anti-theft GPS TRACKER (World Tag) for enhanced security. This tracker is compatible with the 'Find My' App on iOS devices only. Follow the instructions provided with the World Tag to pair it with your iOS device. This feature allows for real-time location tracking, helping you locate your bike if lost or stolen.

6. MAINTENANCE

Regular maintenance ensures the safety and longevity of your electric bike.

6.1 Battery Care

- Charge the battery fully after each ride, especially if it has been significantly depleted.
- Avoid completely draining the battery.
- If storing the bike for an extended period, charge the battery to approximately 50-70% and store it in a cool, dry place. Recharge every 1-2 months to prevent deep discharge.
- Use only the original charger provided with your bike.

6.2 Tire Maintenance

- Check tire pressure before each ride. Refer to the tire sidewall for recommended pressure (PSI).
- Inspect tires for wear, cuts, or punctures regularly.

6.3 Brake Inspection

- Regularly check brake levers for proper tension and responsiveness.
- Inspect brake pads for wear and replace them if necessary.
- Ensure brake discs are clean and free from oil or grease.

6.4 General Cleaning

- Clean the bike with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components.
- Keep the chain clean and lubricated for smooth operation.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Frost Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is depleted or not properly connected.	Charge the battery. Ensure the battery is securely seated.
Motor not engaging.	Low battery, speed mode not selected, or brake lever engaged.	Check battery level. Select a speed mode. Ensure brake levers are fully released.
Short battery range.	Under-inflated tires, heavy load, frequent uphill riding, or cold weather.	Ensure tires are properly inflated. Reduce load. Use pedal assist on inclines. Battery performance can decrease in cold temperatures.
Brakes feel weak.	Worn brake pads, loose cable, or contaminated discs.	Inspect and replace brake pads. Adjust brake cable tension. Clean brake discs with appropriate cleaner.
GPS Tracker not connecting.	Tracker battery low, out of range, or pairing issue.	Ensure tracker battery is charged. Move to an open area. Re-pair with your iOS device if necessary.

If you encounter issues not listed here or require further assistance, please contact customer support.

8. SPECIFICATIONS



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HEIGHT ADJUSTABLE SIZE & FIT



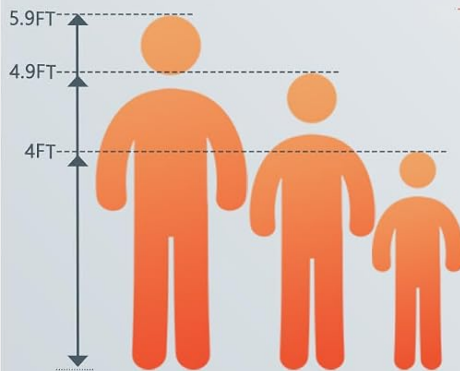
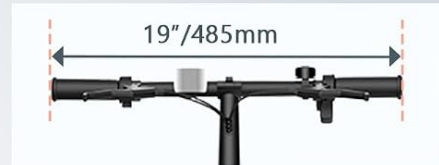
22.8kg/50.3lbs
Bike Weight



29.1~38.5"
(740~980mm)
Height Adjustment



4-Hour
Fast Charge
(0% to 100%)



4~5.9FT (1.2~1.8m)
Recommended Height



Image: Detailed dimensions and size recommendations for the Frost Electric Bike.

Feature	Detail
Model Number	D3F
Product Dimensions	128 x 22 x 105 cm
Item Weight	22.8 kg (50.3 lbs)
Max Speed	25 km/h (15.5 mph)
Motor Wattage	350 watts
Battery Type	Lithium Ion (36V)
Charging Time	Approximately 4 hours (0% to 100%)
Max Range (Pure Electric)	Up to 32 km (20 miles)

Feature	Detail
Max Range (Pedal Assist)	Up to 60 km (37 miles)
Wheel Size	14 Inches
Frame Material	Alloy Steel
Brake Type	EABS Disc Brakes
Suspension	Dual
Number of Speeds	3
Recommended Age Range	Adult
Included Components	Bell, Ebike Charger, Kickstand

9. WARRANTY AND CUSTOMER SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact GYROCOPTERS customer service. For any questions, technical support, or service inquiries, please reach out to:

IMGadgets Customer Care
Phone: +1 647-797-3804
Email: customercare@imgadgets.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question