

VITILAN U3

VITILAN U3 Folding Electric Bike User Manual

Model: U3

1. INTRODUCTION

Thank you for choosing the VITILAN U3 Folding Electric Bike. This manual provides essential information for the safe assembly, operation, and maintenance of your e-bike. Please read it thoroughly before your first ride and keep it for future reference.

The VITILAN U3 is designed for adults, featuring a powerful 250W brushless motor, a removable 48V 13Ah battery, 20"x3.0" fat tires, and dual suspension for a comfortable ride across various terrains. It offers both electric and pedal-assist modes, with a maximum speed of 25 km/h.

MULTI-PURPOSE ELECTRIC BIKE

Perfect for both daily commuter and the outdoor enthusiast.



Commute



Campus



Street



Travel



Sport



Beach



Image 1.1: VITILAN U3 Folding Electric Bike in use, highlighting its versatility.

2. ASSEMBLY INSTRUCTIONS

Your VITILAN U3 e-bike comes 95% pre-assembled. Follow these steps to complete the assembly:

2.1. Unboxing and Initial Setup

Carefully remove the bike and all components from the packaging. Place the bike on a stable surface or use a bike stand if available.

2.2. Front Fender and Wheel Installation

1. Attach the front fender to the front fork using the provided screws and tools.
2. Install the front wheel by aligning the axle with the fork dropouts. Ensure the brake rotor is correctly seated within the brake caliper. Secure the wheel with the axle nuts.

2.3. Handlebar and Stem Assembly

1. Insert the handlebar stem into the head tube.
2. Adjust the height and orientation of the handlebars for a comfortable riding position.
3. Tighten the stem bolts securely.
4. Align the handlebars with the front wheel.

2.4. Rear Rack Installation

1. Attach the rear cargo rack to the designated mounting points on the frame.
2. Secure all bolts firmly.
3. Connect the rear light cable to the main wiring harness and secure it with zip ties.

2.5. Seatpost and Saddle Adjustment

1. Insert the seatpost with the saddle into the seat tube.
2. Adjust the saddle height to ensure proper leg extension while pedaling.
3. Secure the quick-release lever or seatpost clamp.

2.6. Front Rack and Headlight Installation

1. Mount the front cargo rack to the front of the bike frame.
2. Attach the headlight to the front rack.
3. Connect the headlight cable to the main wiring harness and secure it.

2.7. Pedal Installation

1. Identify the left (L) and right (R) pedals.
2. Thread the 'L' pedal counter-clockwise into the left crank arm.
3. Thread the 'R' pedal clockwise into the right crank arm.
4. Tighten both pedals securely with a wrench.

2.8. Tire Inflation

Inflate the tires to the recommended pressure of 22-25 PSI for the 20"x3.0" fat tires. Do not over-inflate.

2.9. Reflector Installation

Attach the wheel reflectors to the spokes of both wheels for increased visibility.

2.10. Derailleur Guard Installation

Install the derailleur guard to protect the rear derailleur from damage.

2.11. Water Bottle Cage Installation

Attach the water bottle cage to the frame using the provided screws.

For a visual guide, please refer to the assembly video below:

Your browser does not support the video tag.

3. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and functions of your VITILAN U3 e-bike before riding.

3.1. Battery

The 48V 13Ah removable battery provides an electric range of over 48 km and a pedal-assist range of over 96 km. It features a smart BMS for safe charging, which takes 5-6 hours for a full charge.



Image 3.1: Removable battery features and specifications.

3.2. LCD Display and Controls

The smart color LCD display shows speed, battery level, riding mode, trip distance, odometer, and average speed. It also allows you to select from 5 riding modes and 5 levels of pedal assistance.

- **Power On/Off:** Press and hold the power button on the display.
- **Assist Levels:** Use the '+' and '-' buttons to cycle through the 5 pedal-assist levels.
- **Riding Modes:** The bike offers Electric Mode, PAS Mode, Cruise Mode, Pedal Mode, and Walking Mode.
- **Headlight/Taillight:** Activate the lights using the dedicated switch on the handlebar.
- **Horn:** Use the horn button for signaling.
- **Turn Signals:** The bike is equipped with turn signals for enhanced safety.



SMART COLOR LCD DISPLAY

5 Riding Modes & 5 PAS Levels



Electric Mode



PAS Mode



Cruise Mode



Pedal Mode



Walking Mode

Image 3.2: Smart Color LCD Display and handlebar controls.

3.3. Gearing

The bike features a Shimano 7-speed derailleur system. Use the gear shifter on the handlebar to change gears according to terrain and desired speed.

3.4. Braking System

The VITILAN U3 is equipped with dual disc brakes for reliable stopping power. Always apply both brakes smoothly and evenly.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your e-bike.

4.1. Battery Care

- Charge the battery regularly, even if not in use, to maintain its health.
- Avoid completely draining the battery.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Use only the original charger provided.

4.2. Tire Maintenance

- Check tire pressure before each ride. Maintain 22-25 PSI.
- Inspect tires for wear, cuts, or punctures.

4.3. Brake System

- Regularly check brake pads for wear and replace if necessary.
- Ensure brake levers are responsive and provide adequate stopping power.
- Adjust brake cables if they feel loose.

4.4. Chain and Drivetrain

- Keep the chain clean and lubricated.
- Check for any loose or damaged chain links.
- Ensure the derailleur shifts smoothly through all gears.

4.5. General Inspection

- Periodically check all bolts and fasteners for tightness.
- Ensure all electrical connections are secure.
- Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your VITILAN U3 e-bike.

5.1. No Power to Display/Motor

- Check if the battery is properly inserted and locked.
- Ensure the battery is charged.
- Verify all electrical connections are secure.
- Check the main power switch (if applicable).

5.2. Motor Not Assisting

- Ensure pedal-assist level is not set to '0'.
- Check if the brake levers are fully released (some e-bikes have motor cut-off sensors on brakes).
- Verify the speed sensor is clean and properly aligned.

5.3. Difficulty Shifting Gears

- Check for proper chain lubrication.

- Inspect the derailleur for any bends or damage.
- Adjust the derailleur cable tension.

5.4. Brakes Squealing or Ineffective

- Clean brake rotors and pads.
- Check brake pads for wear and replace if necessary.
- Ensure brake calipers are properly aligned.

5.5. Flat Tire

- Locate the puncture and repair or replace the inner tube.
- Ensure the tire is properly seated on the rim before re-inflating.

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

6. SPECIFICATIONS

Feature	Specification
Bike Type	Electric Bike, Folding
Brand	VITILAN
Model	U3
Color	Black (as per product data, though images show green)
Motor	250W Brushless Motor
Max Speed	25 km/h
Battery	48V 13Ah Removable
Electric Range	Over 48 km
Pedal Assist Range	Over 96 km
Charging Time	5-6 hours
Wheel Size	20 Inches
Tire Width	3.0 Inches (Fat Tires)
Wheel Material	Aluminum
Suspension	Dual Suspension (Fork and Seatpost)
Gears	Shimano 7-Speed
Brakes	Dual Disc Brakes
Rear Rack Capacity	Max 25 kg
Recommended Height	160 cm - 195 cm

Assembly	95% Pre-assembled
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7. WARRANTY AND SUPPORT

VITILAN offers a 1-year warranty covering the motor, battery, and other key components. For any questions, concerns, or warranty claims, please contact VITILAN customer support through the retailer or the official VITILAN website.

For additional information and support, visit: www.vitilanebike.com

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