

Vivi FM20UL

Vivi FM20UL 20-inch Folding Electric Bike User Manual

Model: **FM20UL** | Brand: **Vivi**

1. INTRODUCTION

Thank you for choosing the Vivi FM20UL 20-inch Folding Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bicycle. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience.

Your Vivi electric bike is designed for urban commuting and recreational use, offering a blend of power, portability, and convenience. It features a 500W motor (750W peak), a 48V removable battery, and a 7-speed gear system. This model is **UL 2849 Certified**, ensuring compliance with electrical safety standards for electric bicycles.



Foldable & Space Saving



Image: UL 2849 Certification details for VIVI electric bikes. This image displays a certificate of compliance from SGS, indicating that VIVI electric bikes, including the FM20UL model, meet the UL 2849 standard for electrical safety. A QR code is also visible for scanning to verify the certificate.

For more details on the UL certification, please visit: [SGS Certificate of Compliance](#)

2. SAFETY GUIDELINES

Your safety is paramount. Always adhere to the following guidelines:

- **Wear a Helmet:** Always wear an approved bicycle helmet that fits correctly.
- **Obey Traffic Laws:** Follow all local traffic laws, regulations, and signage.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires (pressure and condition), battery charge, and ensure all quick releases and fasteners are secure.
- **Visibility:** Use lights at night or in low-light conditions. Wear reflective clothing.
- **Weather Conditions:** Exercise caution when riding in wet conditions, as braking distance increases.
- **Weight Limit:** Do not exceed the maximum load capacity of 265 lbs (120 kg).
- **Serial Number:** The security serial number is located in a hidden place on the front of the

bicycle. Please record it for your records, as it can assist in recovery if the e-bike is lost.

3. PACKAGE CONTENTS

Upon unpacking your Vivi FM20UL electric bike, please verify that all components are present:

- Vivi FM20UL Folding Electric Bike (pre-assembled with battery installed)
- Battery Charger
- Tool Kit
- User Manual (this document)

4. ASSEMBLY AND INITIAL SETUP

Your Vivi FM20UL electric bike arrives approximately 85% pre-assembled. Follow these steps for final assembly:

1. **Unfold the Bike:** Carefully unfold the frame and secure the folding mechanisms.
2. **Install Handlebars:** Insert the handlebar stem into the fork tube and tighten securely. Adjust the handlebar height and angle for comfort.
3. **Install Seat Post:** Insert the seat post into the frame tube. Adjust the seat height so your feet can comfortably touch the ground when stopped, and your legs have a slight bend at the bottom of the pedal stroke. Secure the quick-release lever.
4. **Install Pedals:** Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Ensure they are fully threaded and tightened.
5. **Check Connections:** Verify all electrical connections are secure and all bolts and fasteners are tightened.
6. **Charge Battery:** Fully charge the battery before your first ride. Refer to the 'Battery Information' section for details.



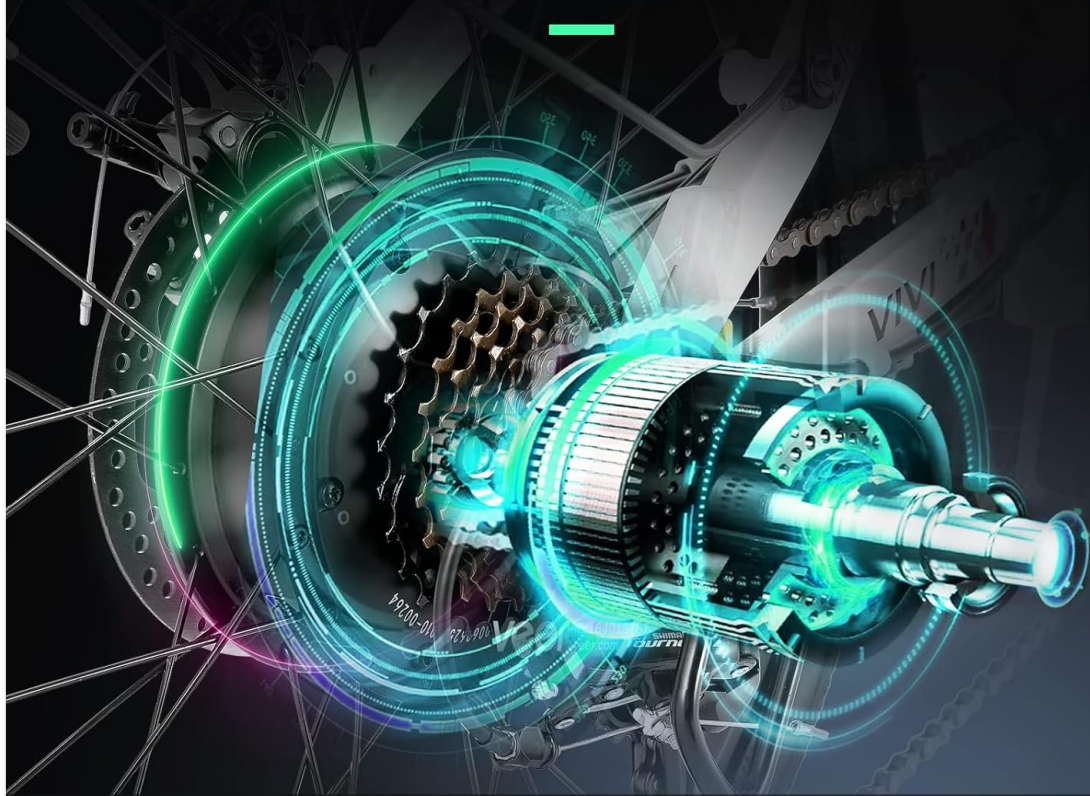
Image: The Vivi FM20UL 20-inch Folding Electric Bike in its unfolded state, ready for use. The image shows the white frame, fat tires, front headlight, rear rack, and the folding mechanism near the center of the frame. A smaller inset image shows the bike in its folded configuration.

5. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your electric bike:

- **Frame:** Lightweight aluminum alloy, foldable design.
- **Motor:** 500W brushless rear hub motor (750W peak power).
- **Battery:** 48V 7.8Ah (374.4Wh) removable Lithium-ion battery, integrated into the frame.
- **Display:** LED 3-speed smart meter for speed, battery level, and assist mode selection.
- **Gears:** 7-speed gear shift system.
- **Brakes:** Front and rear mechanical disc brakes.
- **Tires:** 20" x 2.4" anti-slip resistant thick tires.
- **Suspension:** Front suspension fork for improved ride comfort.

REAR WHEEL DRIVE **500W** POWERFUL MOTOR



MAX SPEED

22 MPH

TORQUE

50 N.M

MILEAGE

**22-50
MILES**

LOAD-BEARING

330 LBS

AVERAGE LIFESPAN

10 YEARS

Image: A detailed view of the 500W rear wheel drive motor and cassette on the Vivi electric bike. The image highlights the robust construction of the motor, which provides power assistance for riding.



22-50 miles

4-6 hours

Simple charging port

Key protection

48V 7.8AH REMOVABLE BATTERY

Image: A close-up of the Vivi electric bike's frame, showing the integrated and removable 48V 7.8Ah battery. The image also indicates the charging port and key protection mechanism for the battery.



Image: An illustration of the front shock absorption system on the Vivi electric bike. The image highlights the suspension fork, designed to reduce bumps and provide a smoother ride.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- **To Power On:** Press and hold the 'M' button on the LCD display for a few seconds.
- **To Power Off:** Press and hold the 'M' button again until the display turns off.

6.2 Riding Modes

Your Vivi electric bike offers five distinct riding modes:

- **Electric Mode (Throttle Only):** Provides power without pedaling. Use the throttle lever on the handlebar. Range: 22-25 miles.
- **Pedal Assist Mode:** The motor provides assistance as you pedal. Select from 5 speed assist levels using the '+' and '-' buttons on the display. Range: 44-50 miles.
- **Normal Bike Mode:** The electric system is off, and you pedal the bike like a traditional bicycle.
- **Cruise Control Mode:** Activates a constant speed without holding the throttle. Consult the full

display manual for activation details.

- **Walk Assist Mode:** Provides low-speed motor assistance for walking the bike, useful for pushing it up inclines.



Image: The Vivi electric bike's LCD smart meter and handlebar controls. The display shows speed, battery level, and assist level. Illustrations above the display depict the three primary riding modes: Electric mode, Pedal assist mode, and Normal bike mode.

6.3 Gear Shifting

Your bike is equipped with a 7-speed gear system. Use the shifter on the right handlebar to change gears. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

6.4 Braking

The bike features front and rear disc brakes. Apply both brake levers simultaneously for effective and controlled stopping. Practice braking in a safe area to become familiar with their response.

7. BATTERY INFORMATION

The Vivi FM20UL is powered by a 48V 7.8Ah (374.4Wh) removable Lithium-ion battery.

7.1 Charging the Battery

- **Charging Time:** A full charge typically takes 4-6 hours.
- **Charging Procedure:** Connect the charger to a standard household outlet and then to the bike's charging port. The indicator light on the charger will change when charging is complete.
- **Removable Battery:** For convenience and security, the battery can be removed for charging indoors. To remove, first fold the e-bike, then unlock and slide the battery out of the frame.

7.2 Battery Care and Maintenance

- Avoid fully discharging the battery. Recharge regularly, even if not used frequently.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Use only the charger provided by Vivi.
- Do not expose the battery to water or moisture.

8. FOLDING INSTRUCTIONS

The Vivi FM20UL is designed for easy folding and storage. Follow these steps to fold and unfold your bike:

8.1 Folding the Bike

1. Lower the seat post to its lowest position.
2. Fold down the handlebars by releasing the quick-release lever on the stem.
3. Locate the main frame folding latch (usually near the center of the frame). Release the safety catch and open the latch to fold the frame in half.
4. Ensure all folded parts are secured to prevent accidental unfolding during transport.

8.2 Unfolding the Bike

1. Carefully unfold the frame until the main frame latch clicks into place. Secure the safety catch.
2. Raise and secure the handlebar stem.
3. Adjust the seat post to your desired riding height and secure it.
4. Perform a quick safety check before riding.

All ebikes under the VIVI brand have passed the UL 2849 standard and obtained certification from SGS!

VIVI has been pursuing to provide reliable quality and cost-effective electric bicycles!



Scan code to check the UL certificate of compliance



About SGS: SGS is the world's leading testing, inspection and certification company. SGS is also one of the UL testing and standards companies.



Image: The Vivi electric bike shown in both its unfolded and folded configurations, demonstrating its space-saving design. The image also provides key dimensions for the bike, including adjustable seat and handlebar heights, and overall length.

9. MAINTENANCE

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

- **Tire Pressure:** Check tire pressure before each ride. Maintain pressure within the recommended range (typically found on the tire sidewall).
- **Brake Inspection:** Regularly check brake pads for wear and brake levers for proper tension. Adjust or replace as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fastener Check:** Periodically inspect all bolts, nuts, and quick releases to ensure they are tight and secure.
- **Cleaning:** Clean the bike with a damp cloth and mild soap. Avoid high-pressure washing, especially near electrical components.
- **Battery Terminals:** Keep battery terminals clean and free of corrosion.

10. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; loose electrical connection.	Ensure battery is fully charged and securely inserted. Check all visible electrical connections.
Motor not assisting	Pedal assist level set to 0; brake levers engaged; motor cable loose.	Increase pedal assist level. Ensure brake levers are fully released. Check motor cable connection.
Brakes feel weak	Worn brake pads; loose brake cable; air in hydraulic system (if applicable).	Inspect and replace brake pads if worn. Adjust brake cable tension. If issue persists, consult a bike mechanic.
Unusual noises	Loose components; dry chain; rubbing parts.	Inspect all fasteners. Lubricate chain. Check for any parts rubbing against each other.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Vivi customer support.

11. SPECIFICATIONS

Feature	Specification
Model	FM20UL
Frame Material	Aluminum Alloy
Wheel Diameter	20 inches
Tire Size	20" x 2.4" Fat Tire
Motor	500W Brushless (750W Peak)
Max Speed	22 MPH (35 km/h)
Battery	48V 7.8Ah (374.4Wh) Removable Lithium-ion
Charging Time	4-6 hours
Mileage Range (Electric Mode)	22-25 miles (35-40 km)

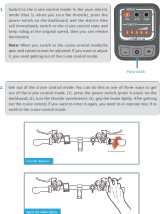
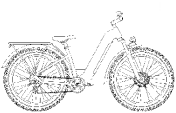



Feature	Specification
Mileage Range (Pedal Assist Mode)	44-50 miles
Load Capacity	265 lbs (120 kg)
Seat Height (Adjustable)	27.3 - 44.1 inches (70 - 112 cm)
Handlebar Height (Adjustable)	40 - 46.5 inches (101 - 118 cm)
Full Length	58.6 inches (149 cm)
Recommended Rider Height	62 - 75 inches (160 - 190 cm)
Suspension Type	Front Suspension
Brake System	Front and Rear Disc Brakes
Gear System	7-Speed
Display	LED 3-speed Smart Meter
Bicycle Weight	55 lbs (25 kg)
Certification	UL 2849 Certified

12. WARRANTY AND SUPPORT

Vivi provides a 1-year warranty for the battery and motor components of your electric bike. For any questions, technical assistance, or warranty claims, please contact Vivi customer support through your purchase platform or the official Vivi website.

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Related Documents

<p>Instruction Manual for Cruise Control</p> 	<p>VIVI Ebike Cruise Control: Instruction Manual</p> <p>Learn how to activate and deactivate the cruise control feature on your VIVI electric bike. This guide provides step-by-step instructions for engaging and disengaging cruise control using the power switch, throttle, or brake.</p>
<p>VIVI</p> <p>User Manual of Electric Bike</p> 	<p>VIVI ACE07 Electric Bike Assembly and User Manual</p> <p>Comprehensive assembly instructions and specifications for the VIVI ACE07 electric bike, covering installation, parameters, packing list, and brake adjustment procedures.</p>
<p>E-bike User's Manual</p> 	<p>VIVI E-bike User's Manual: Installation, Operation, and Maintenance Guide</p> <p>Comprehensive user's manual for the VIVI E-bike, covering safety instructions, meter operation, battery care, charging procedures, and detailed installation steps for components like the handlebar, front wheel, pedals, seat post, and throttle.</p>
<p> VIVI E-bike User's Manual</p> 	<p>VIVI E-bike User's Manual</p> <p>Comprehensive user manual for the VIVI E-bike, covering safety, operation, battery care, charging, and installation instructions for optimal performance and safety.</p>