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VITILAN L5

VITILAN L5 Electric Bike User Manual

Brand: VITILAN | Model: L5

1. INTRODUCTION TO THE VITILAN L5 ELECTRIC BIKE

The VITILAN L5 Electric Bike is designed to provide a seamless urban commuting experience, blending power, comfort, and efficiency. It is suitable for city dwellers seeking a reliable and versatile ride.

Key features include a powerful 500W brushless motor, a removable and UL-certified 48V 15Ah battery, and 5-level pedal assist for a tailored riding experience. The bike is built with a durable 6061 aluminum alloy frame and features a comfortable adjustable seat cushion.



Figure 1.1: The VITILAN L5 Electric Bike, showcasing its design and included accessories like the front basket and rear rack.

2. PRODUCT FEATURES

- **Powerful Motor:** Equipped with a 500W brushless rear hub motor (Peak 960W) providing a top speed of up to 25 MPH.
- **Extended Range Battery:** Features a removable and lockable 48V 15Ah Samsung battery, offering an electric mode range of 30 miles and a PAS mode range of 50 miles. Fast charging takes 5-6 hours.
- **Torque Sensor:** Advanced torque sensor ensures smooth and responsive power delivery, providing a natural riding feel.
- **Smart Control:** App control (for iPhone users) allows adjustment of speed, gear, and PAS levels. The display also includes a USB port for charging devices.
- **Comfort and Safety:** Mechanical front fork suspension absorbs shocks, and front and rear dual hydraulic disc brakes provide reliable stopping power.

- **Durable Construction:** Built with a lightweight, sturdy, and durable 6061 aluminum alloy frame.
- **All-Terrain Tires:** 26"x2.4" KENDA all-terrain tires are anti-skid and puncture-resistant.
- **Shimano 7-Speed Derailleur:** Provides versatile gearing for various riding conditions.

Torque Sensor

Enjoy a Smooth And Natural Riding Experience

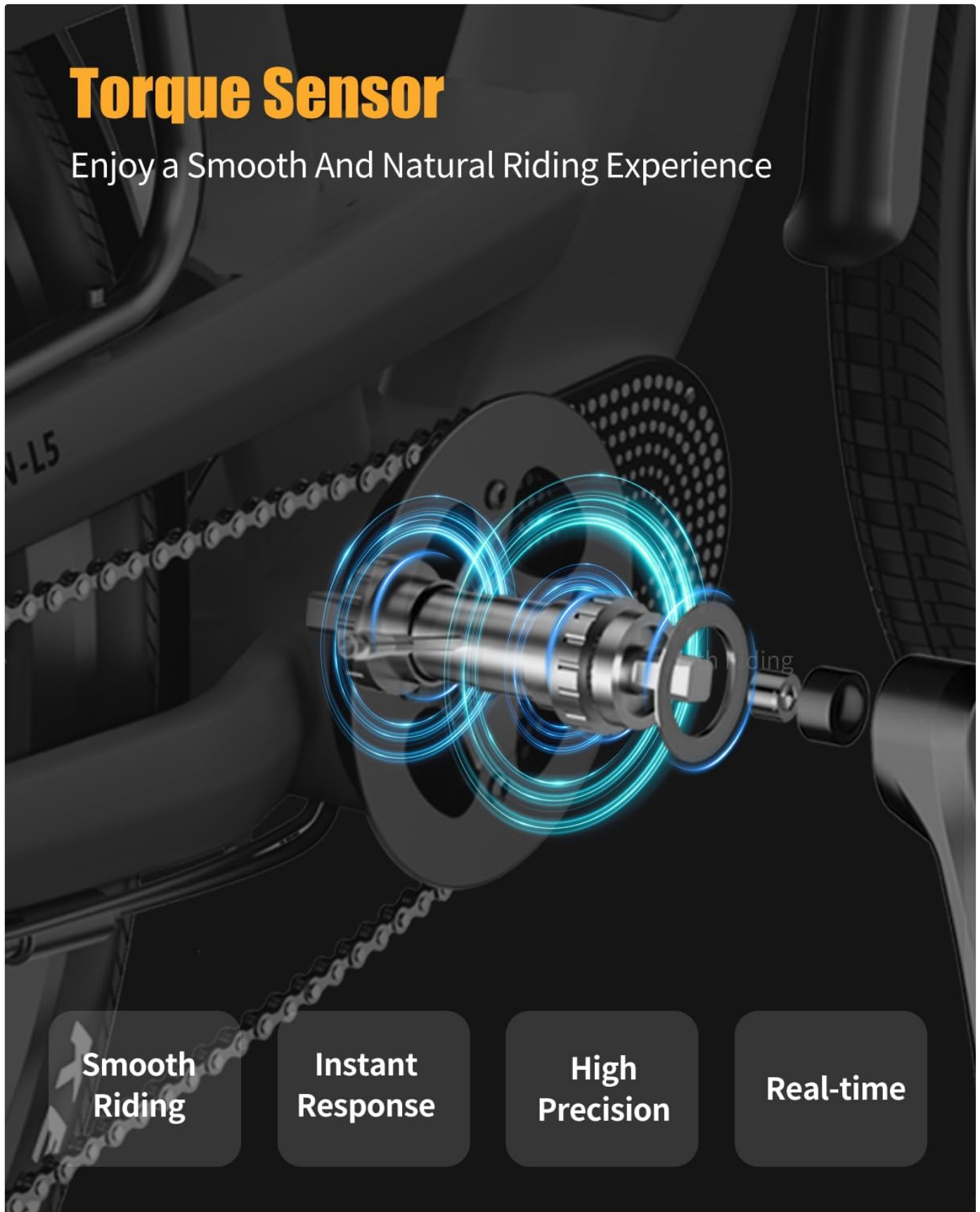
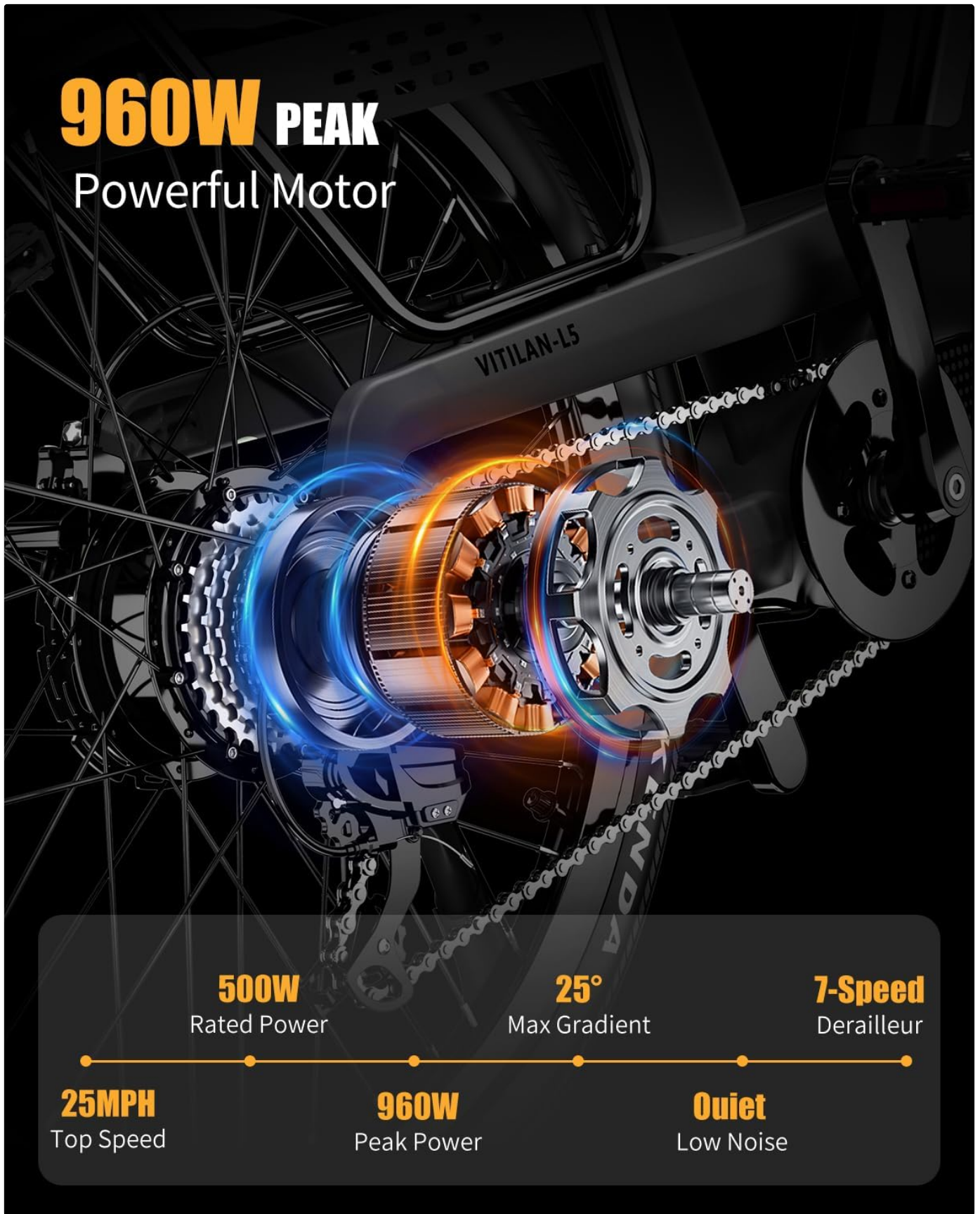


Figure 2.1: Illustration of the torque sensor, which provides a smooth and natural riding experience by responding to pedal pressure.

960W PEAK

Powerful Motor



500W
Rated Power

25°
Max Gradient

7-Speed
Derailleur

25MPH
Top Speed

960W
Peak Power

Quiet
Low Noise

Figure 2.2: Details of the powerful 500W rated (960W peak) motor, highlighting its top speed, max gradient, and 7-speed derailleur integration.

48V 15Ah SAMSUNG BATTERY

20% LONGER BATTERY LIFE



Lockable Battery



Removable Battery

30 Miles

Electric Mode

50 Miles

PAS Mode

48v 15Ah

Samsung Battery

5-6 Hours

Fast Charging

Figure 2.3: The 48V 15Ah Samsung battery, which is removable and lockable, providing extended range for the electric bike.

3. SETUP AND ASSEMBLY

The VITILAN L5 Electric Bike arrives 90% pre-assembled, simplifying the setup process. Most major components are already installed, requiring minimal effort to get the bike ready for its first ride.

3.1 Unpacking and Initial Inspection

1. Carefully remove the bike and all components from the packaging.
2. Inspect all parts for any signs of damage during shipping. Report any damage to customer service immediately.
3. Verify that all included components are present: Electric bike, Front Basket, Manual.

3.2 Assembly Steps

1. **Install the Front Wheel:** Securely attach the front wheel to the fork. Ensure the quick-release skewer or axle nuts are tightened correctly.
2. **Attach the Handlebars:** Insert the handlebar stem into the fork steerer tube and tighten the bolts. Adjust the angle for comfortable riding.
3. **Install Pedals:** Identify the left (L) and right (R) pedals. Thread them into the crank arms carefully. Remember, the left pedal threads counter-clockwise.
4. **Install Front Basket:** Attach the front basket using the provided hardware, ensuring it is securely mounted.
5. **Adjust Seat Height:** Adjust the seat post to a comfortable riding height, ensuring your feet can touch the ground when stopped.
6. **Charge the Battery:** Before the first ride, fully charge the 48V 15Ah battery. Connect the charger to the battery and a power outlet. The charging time is approximately 5-6 hours.

90% PRE-ASSEMBLED

Easy to set up right out of the box



5'3"-6'3"
Rec. Height



71.8 LBS
Ebike Weight



330 LBS
Capacity

Figure 3.1: The VITILAN L5 Electric Bike, highlighting its dimensions and the fact that it comes 90% pre-assembled for easy setup.

4. OPERATING INSTRUCTIONS

4.1 Powering On and Off

- To power on the bike, press and hold the power button on the LCD display.
- To power off, press and hold the power button again until the display turns off.

4.2 Riding Modes

The VITILAN L5 offers multiple riding modes to suit various preferences and terrains:

- **Electric Mode:** Provides full electric power without pedaling.
- **PAS (Pedal Assist System) Mode:** Offers 5 levels of pedal assistance, augmenting your pedaling effort. The torque sensor ensures a natural feel.
- **Cruise Mode:** Maintains a set speed without continuous pedaling (refer to display manual for activation).
- **Pedal Mode:** Functions as a traditional bicycle with no electric assistance.
- **Walk Mode:** Provides low-speed assistance for walking the bike, useful for pushing it uphill or through crowded areas.

5 Riding Modes

Commuter & Leisure Ebike



Electric Mode



PAS Mode



Cruise Mode



Pedal Mode



Walk Mode

Figure 4.1: The five distinct riding modes available on the VITILAN L5 Electric Bike, offering versatility for different riding conditions.

4.3 LCD Display and App Control

The integrated LCD display provides essential riding information and allows for control of various functions. For iPhone users, the dedicated app offers enhanced control and features.

- **Display Information:** Shows speed, mileage, battery indicator, PAS level, light status, and more.
- **USB Port:** The display includes a USB port for convenient charging of your mobile devices while riding.

- **App Functions (iPhone only):** Control speed, gear, and PAS levels directly from your smartphone. The app also features a location finder.

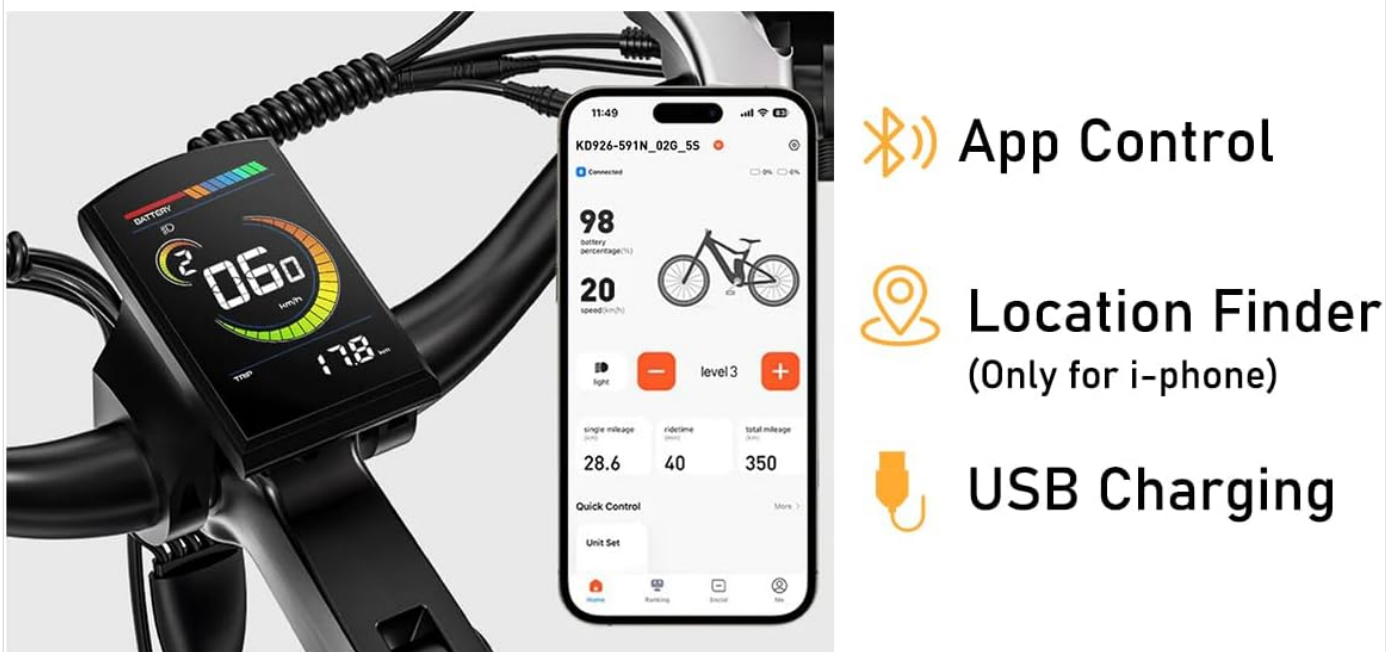
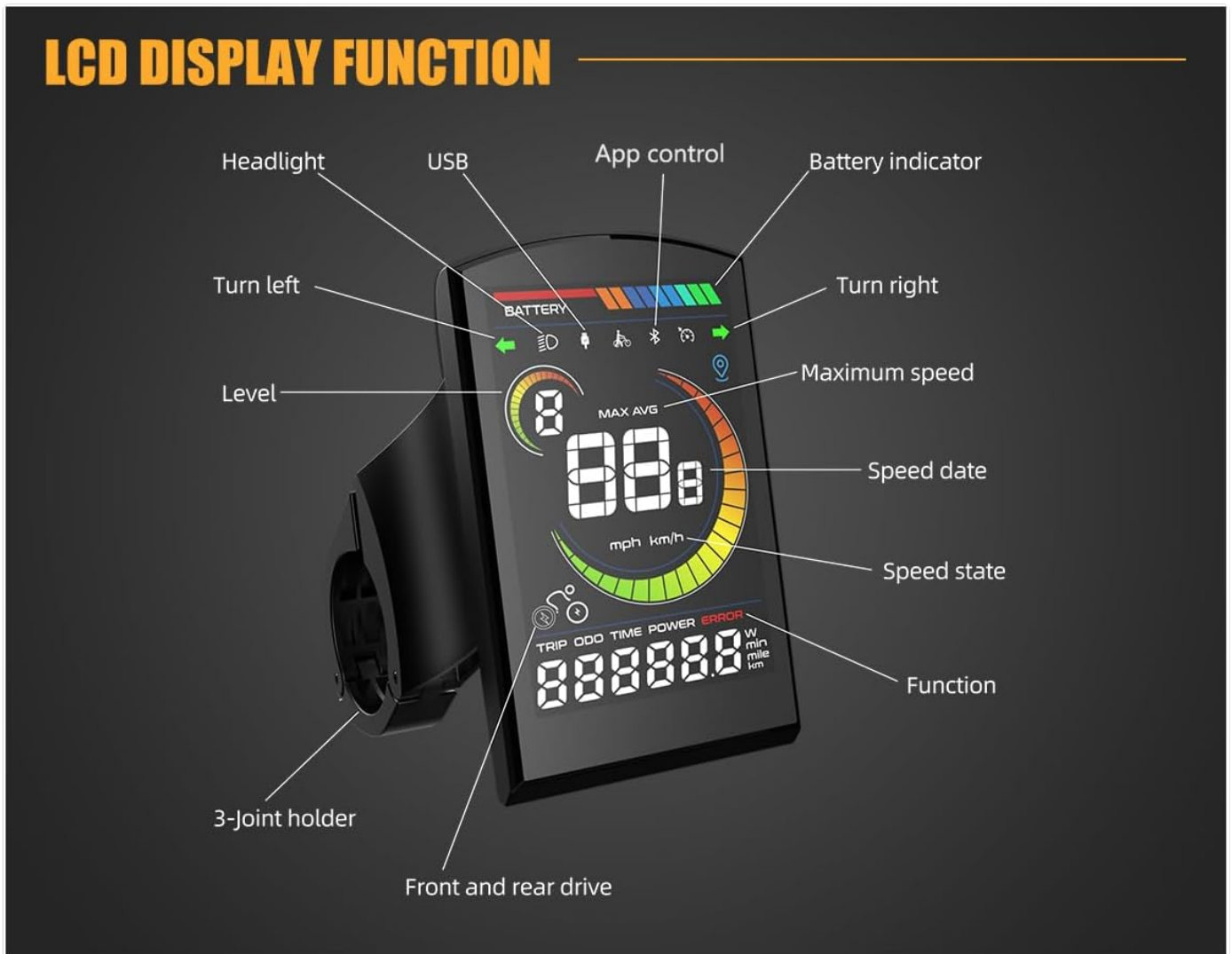


Figure 4.2: The LCD display and its functions, including app control and USB charging capabilities.

4.4 Braking and Shifting

- **Hydraulic Disc Brakes:** The bike is equipped with front and rear dual hydraulic disc brakes. Apply both brakes

simultaneously for effective and safe stopping.

- **Shimano 7-Speed Derailleur:** Use the shifter on the handlebars to change gears according to terrain and desired pedaling effort. Shift smoothly to avoid strain on the drivetrain.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your VITILAN L5 Electric Bike. Follow these guidelines to keep your bike in optimal condition.

5.1 Battery Care

- **Charging:** Always use the original charger provided. Do not overcharge the battery; disconnect once fully charged (approx. 5-6 hours).
- **Storage:** If storing the bike for an extended period, charge the battery to about 50-70% and store it in a cool, dry place. Recharge every 2-3 months to prevent deep discharge.
- **Cleaning:** Keep battery contacts clean and dry.

5.2 Tire Maintenance

- **Tire Pressure:** Regularly check tire pressure (26"x2.4" KENDA all terrains tires) and inflate to the recommended PSI indicated on the tire sidewall. Proper inflation improves efficiency and prevents punctures.
- **Inspection:** Inspect tires for wear, cuts, or embedded objects before each ride.

5.3 Brake System

- **Brake Pad Wear:** Periodically check the brake pads for wear. Replace them when they become thin.
- **Brake Levers:** Ensure brake levers provide firm and consistent braking power. If they feel spongy, the hydraulic system may need bleeding or adjustment by a qualified technician.

5.4 General Cleaning and Lubrication

- **Cleaning:** Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing, especially around electrical components.
- **Chain Lubrication:** Lubricate the chain regularly, especially after riding in wet conditions, to ensure smooth shifting and prevent rust.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For more complex problems, please contact VITILAN customer support.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged, battery not properly seated, loose electrical connection.	Ensure battery is fully charged and securely inserted. Check all visible cable connections.
Motor not assisting.	PAS level set to 0, brake levers engaged, motor connection issue.	Increase PAS level on display. Ensure brake levers are fully released. Check motor cable connection.
Short battery range.	Under-inflated tires, riding uphill frequently, heavy load, cold weather, battery degradation.	Check tire pressure. Use lower PAS levels or pedal more. Avoid excessive loads. Battery performance can be reduced in cold. Consider battery replacement if old.

Problem	Possible Cause	Solution
Brakes feel weak or spongy.	Worn brake pads, air in hydraulic lines, low brake fluid.	Inspect and replace brake pads if worn. Consult a bike mechanic for hydraulic brake bleeding or fluid top-up.
Gears are not shifting smoothly.	Dirty or unlubricated chain, misaligned derailleur, bent hanger.	Clean and lubricate the chain. Adjust derailleur or consult a bike mechanic for alignment.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Bike Type	Electric Bike
Model Name	L5
Age Range (Description)	Adult
Brand	VITILAN
Motor	500W brushless rear hub motor (Peak 960W)
Max Speed	Up to 25 MPH
Battery	48V 15Ah Samsung Battery, removable, lockable
Electric Mode Range	30 miles
PAS Mode Range	50 miles
Charging Time	5-6 hours
Wheel Size	26 Inches
Tires	26"x2.4" KENDA all terrains tires
Frame Material	6061 Aluminum Alloy
Suspension Type	Front (Lockable mechanical spring front fork)
Brake Style	Front and rear dual hydraulic disc brakes
Transmission	Shimano 7-speed derailleur
Display	LCD with USB port (shows speed, mileage, battery indicator, PAS level, light, etc.)
Lights	Headlight and rear signal light
Recommended Height	5'4" - 6'5"
EBike Weight	72 lbs (32.6 kg)
Max Load	330 lbs
Dimensions	72.5"x26"x45.7" (185x65x115 CM)

Feature	Detail
Included Components	Electric bike, Front Basket, Manual

8. WARRANTY AND CUSTOMER SUPPORT

8.1 Warranty Information

The VITILAN L5 Electric Bike comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures peace of mind regarding the quality and performance of your e-bike.

Please retain your proof of purchase for warranty claims.

8.2 Customer Support

VITILAN is committed to providing excellent customer service. Our support team offers professional consultation and after-sales service to address any questions or problems you may encounter.

For assistance, please visit the official VITILAN store on Amazon or contact their customer service directly through the platform. You can find more information and contact details at the [VITILAN Store](#).