

VLCD10 Display Operation Manual



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SINCE 1988

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Summarize

Intelligent VLCD10 Display is especially designed for electric bicycles. It's mainly used to control the power assist. And it can also show the capacity of battery, measure the speed of electric bicycle, record the trip distance.

Specifications	
Type	VLCD10
Working Voltage	DC24-48V
Max Working Current	20ma 24V 10ma 48V
Display Type	128x160 LCD
Working Temperature	-20°C ~ 70°C

Installation

Instruments mounted on the handlebar, plug-ins output line (5-pin push-male) and operate on the (5-pin plug-female) On the plug.

Functions and Operations

Key Definitions



① Power Assist **+** Key

Used to add gear

② Power Assist **-** Key

Used to reduction gear and 6km/h power assist

③ Power Key **⏻**

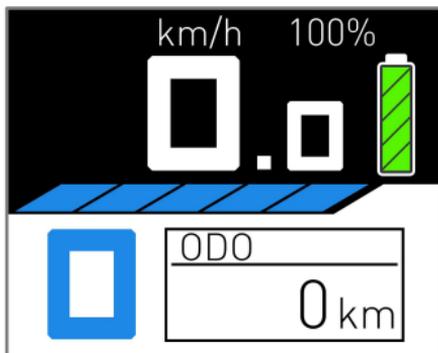
Used for booting and setting

Main interface Functions and operations

Power On/Of

f

Press this  button to power on the LCD display, long pressing the  button for 4 seconds to power off. Automatically shut off without any operation in · minutes.



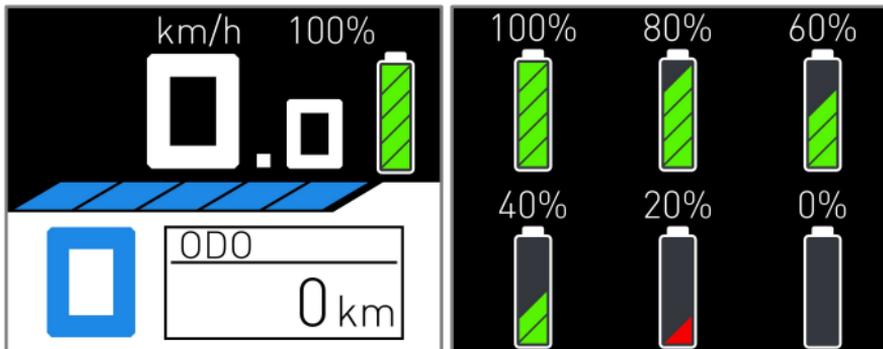
Vehicle Speed Display

Show current speed.



Battery Energy Indicator

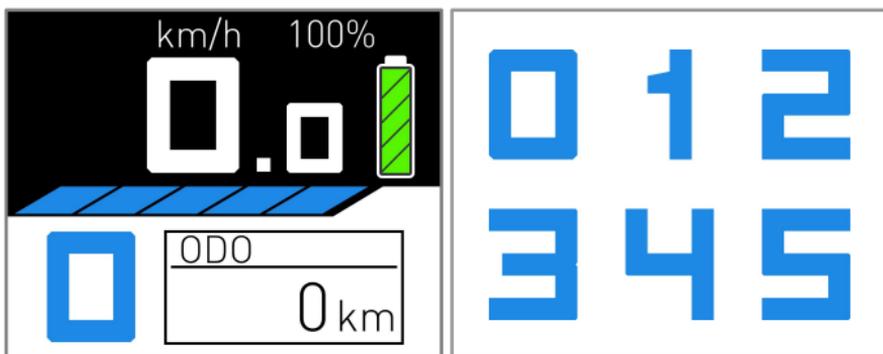
Five horizontal blocks show energy of battery. Each block 20 percents of electric energy.



Setting The Assistance Level

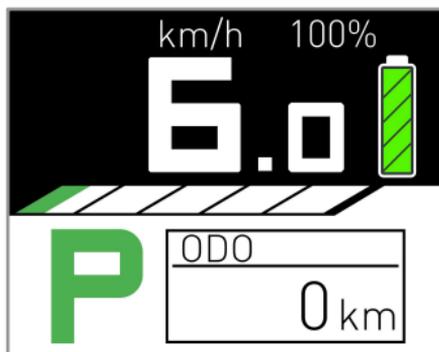
Press **+** or **-** button to switch 1-5 assist level. Level 1 is for the minimum power, level 5 is for the highest power.

Level 0 is without assist function.



Switching the Push Assistance On/Of

To activate the push assistance, make sure the assistance level is 0 ~ 5. Press the  button and keep it pressed in 4 seconds.



Headlight Control

Long press the  button and keep it pressed in 4 seconds to turn on the headlight. Repeat the operation to turn off the headlight.

Settings

Entering the Setting Mode

Press  buttons to enter the setting mode. In the setting mode, press **+** or **-** buttons to switch the settings.

Long Press **-** buttons to exit setting mode.

SETTINGS	
INFORMATION	>
BATTERY INFO	>
FUNCTION	>

Information

Enter the setting mode and switch to information item. Press  button to confirm setting.

Long press **-** buttons to exit.

INFORMATION	
TRIP	0.0 km
ODO	0.0 km
TIME	00:23
MAX	0.0 km/h
AVG	0.0 km/h

Battery Information

Enter the setting mode and switch to battery information item.
Press  button to confirm setting.

Long press  to exit.

BATTERY INFO	
Capacity	100%
Cycle Time	2131
Temperature	23°C
Remain Capacity	4444 mAh
Full Capacity	3333 mAh
Last Uncharged Time	12h
Max Uncharged Time	213h

Function

Enter the setting mode and switch to function item.
Press  button to entering the function setting.

Long press  to exit.

SETTINGS	
INFORMATION	>
BATTERY INFO	>
FUNCTION	>

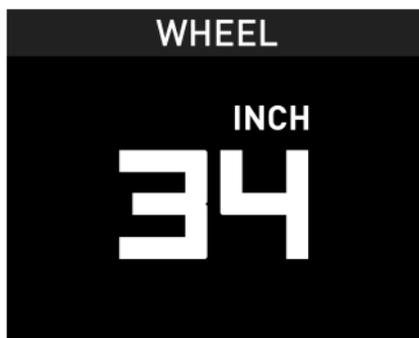
FUNCTION	
WHEEL	>
MAX SPEED	>
MAGNETIC STEEL	>
IMPERIAL UNITS	<input checked="" type="checkbox"/>
PUSH	<input checked="" type="checkbox"/>
BRIGHTNESS	>
RESET	>

Setting the Wheel Size

Enter the function mode and switch to wheel item. Press  button to confirm setting.

Press **+** or **-** buttons to switch between 5-35 inch.

Long press **-** to save and exit.



Setting the Speed Limit

Enter the function mode and switch to max speed item. Press  button to confirm setting.

Press **+** or **-** buttons to switch between 10-60 km/h.

Long press **-** to save and exit.



Setting the Brightness

Enter the function mode and switch to brightness item. Press  button to confirm setting.

Press **+** or **-** buttons to switch the brightness.

Long press **-** to save and exit.



Magnetic Steel

Enter the setting mode and switch to magnetic steel item.

Press  button to confirm setting.

Long press **-** to save and exit.

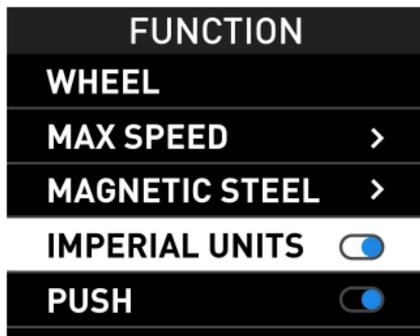


Switch the Unit

Enter the function mode and switch to imperial unit item.

Press  button to switch the imperial units.

Long press  to exit.

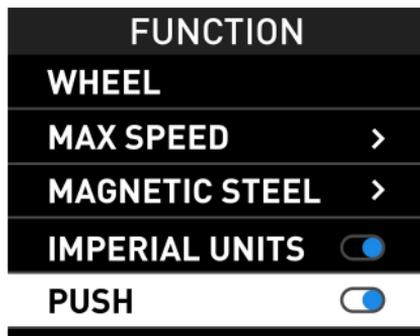


Switch the Push

Enter the setting mode and switch to push item.

Press  button to switch the push.

Long press  to exit.



Reset

Enter the function mode and switch to reset item.

Press  button to entering the reset setting.

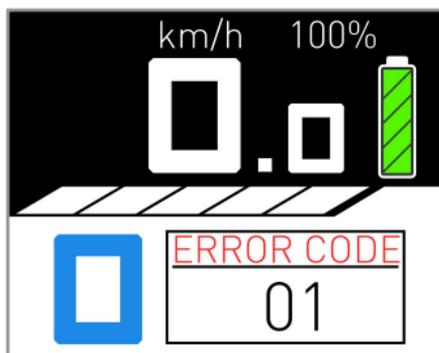
Long press  to exit.



Error

Error code

Once the controller encounters an issue, the related error code will occur on panel.



The following table is a typical failure code for TS middle motor.

Error Code	Cause of Issue
E01	No error
E02	Temperature protection
E03	Short circuit protection
E04	Handlebar failure
E05	Motor phase loss
E06	Torque failure
E07	Stall failure
E08	Undervoltage
E09	Overpressure
E10	Hall failure