



NINGBO TEVERUN TECHNOLOGY CO.,LTD

Product Specification

Customer Name: _____

Customer Audit: _____

Product Name: _____ **Colorful TFT Display** _____

Product Model: _____ **UKC2** _____

Date of Issue: _____

Approval: _____



1. Product Name

- TFT LCD display
- Model:UKC2

2. Supplier

NINGBO TEVERUN TECHNOLOGY CO.,LTD

3. Parameters

- 3.1 3.5 inch TFT colourful screen
- 3.2 48V/60v/72v power supply
- 3.3 Rated operating power : 1W
- 3.4 USB charging port : DC 5V 500mA
- 3.5 Off leakage current < 1uA
- 3.6 Max operating current : 1000mA
- 3.7 Operating temperature : -20~70°C
- 3.8 Storage temperature : -30~80°C

4. Dimensions & Material

4.1

- ABS product shell
- Imported high strength Acrylic LCD transparent window
- Product holder material is glass fiber mixed with nylon.



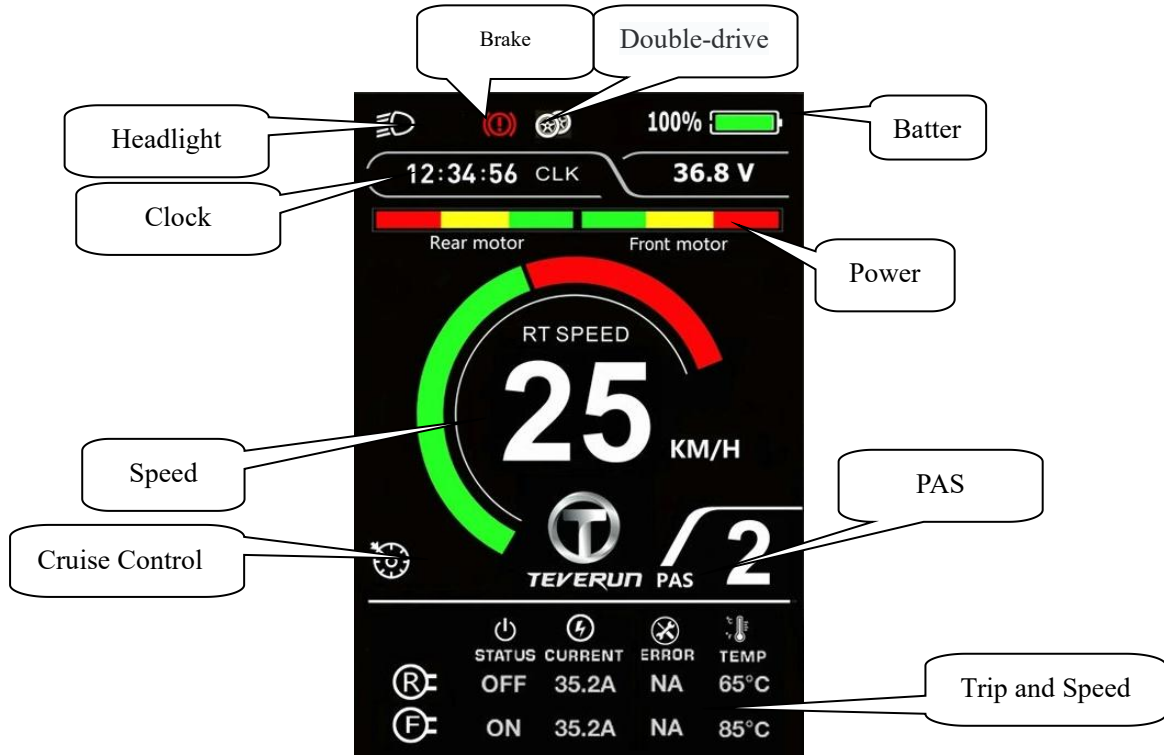


5. Introduction to the Product

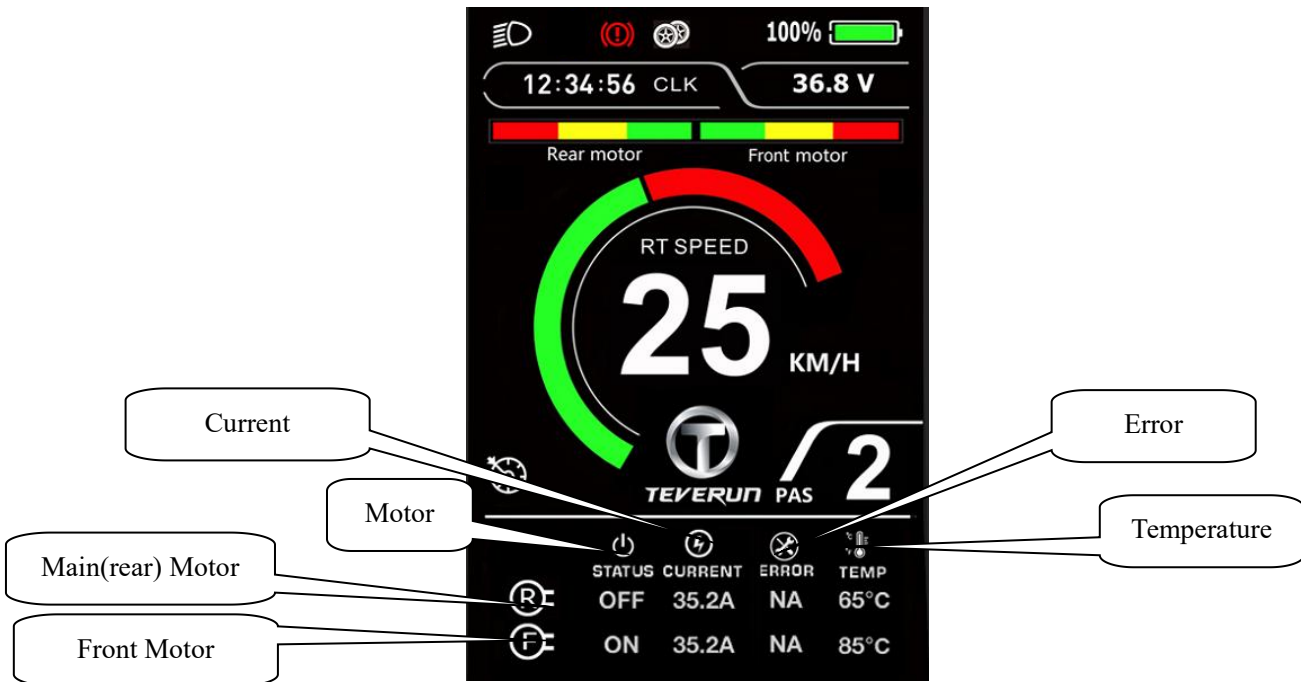
- 5.1 Dimension: 3.5inch colorful TFT screen.
- 5.2 Kilometer or Mile mode can be set according to customers' habits.
- 5.3 Intelligent power indicator: It can provide a stable power indication through the optimization algorithm. The power is not affected by the start-stop fluctuation of the motor. If the system supports battery communication, the accurate percentage of power will be displayed.
- 5.4 Adjusting 5 levels backlight brightness: 1st level is the darkest, 5th is the lightest.
- 5.5 ECO and 5 levels adjustment.
- 5.6 Mileage indicator : Odometer/Trip distance/ Clock/ Riding time.
- 5.7 Clock indication :Internal battery. Time function still works when the display is off.
- 5.8 Output power indicator: real time output power of the motor can be indicated.
- 5.9 Error codes can be displayed for maintenance.
- 5.10 Speed limit levels can be set.
- 5.11 Current limit levels can be set.
- 5.12 USB charging port: 500mA/5V.
- 5.13 Software upgraded : Software can be upgraded through UART.
- 5.14 Speed measuring magnetic steel (magnetic pole) adjustment function: the number of speed measuring magnetic steel (magnetic pole) can be set.
- 5.15 Assist levels can be adjusted.



6. TFT screen instructions



Interface:




6.1 Screen Interface: The default mode is information mode. Click M button to switch modes.

6.2 Speed model: AVG SPEED/MAX SPEED/RT SPEED

6.3 Headlight display: when the headlight is working, showing



6.4 Brake display: when the brake is working,showing

6.5 Assist levels can be indicated.

6.6 Real time power indication.

6.7 Clock display: showing the clock information

6.8 Real time current indication.

6.9 Motor ON/OFF state is reported.

6.10 Error code can be reported. For the details, please refer to the following table.

Error Code	Meaning
“1” is shown at the bottom of the information switch interface	Motor phrase
“2” is shown at the bottom of the information switch interface	Hall failure
“4” is shown at the bottom of the information switch interface	Handlebar turning fault
“5” is shown at the bottom of the information switch interface	Undervoltage protection
“6” is shown at the bottom of the information switch interface	Controller error
“7” is shown at the bottom of the information switch interface	Communication error
“8” is shown at the bottom of the information switch interface	Over-temperature protection

6.11 Real-time temperature can be reported.

7 Functional Description



7.1 Power On/Off

Press and hold **Power** button for 1 second to turn on/off the display. The display will automatically shut down when there is no operation & ride for 10 minutes (X could be set by the user) .

***If the display has been set power-on password, you need to input the right password when starting.**

7.2 Assist Level Operating

Short press UP/DOWN button can change the assist level. Optional assist levels are ECO, 1, 2, 3,



4 and 5. And the default value is 1.

7.3 Headlight/Display Model Change

Press and hold **UP** button for 1 second to lower the backlight brightness and headlight is on(controller support is needed). At the same time, switching daytime/night mode.Press and hold **UP** button for 1 second again, headlight will be off and change the display mode.

*The backlight brightness has 5 levels and users can adjust it according to their demands.

7.4 Data Cleanup

Press and hold **UP** & **DOWN** buttons concurrently for 1 second can reset temporary data, including **AVG Speed / MAX Speed / Trip / Time**.

*These temporary data will not be erased when power is off.

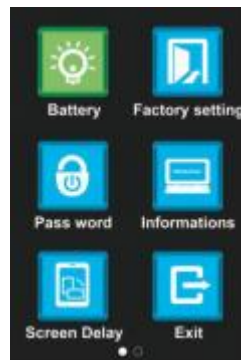
8 MENU Parameter Setting

In the state of power on,press the M button twice(time interval must be within 0.3S),the system will enter the parameter setting menu.Press M button twice again to exist setting state (time interval must be within 0.3S).

In the MENU setting interface, press M button to confirm and POWER to cancel. Press UP or DOWN to select the adjusting items. Press M button, the parameter to be set will be blinking. If you want to adjust related parameters, please press UP or DOWN. Then press M to save and press POWER or select EXIT to back to the main menu. In the function selection interface, press M button twice consecutively or select EXIT to exit menu.



Menu---page1



Menu---page 2

Function selection menu

8.1 Brightness : Press M button to enter the setting menu. Adjusting the brightness 1-5 by pressing UP/DOWN button.1 is the darkest,5 is the brightest.



adjusting the brightness

8.2 Clock: Press M button to enter the clock setting menu. Press UP/DOWN button to set Year/Month/Day/Hour/Min/Sec. When finish setting and press M button and return to previous menu.



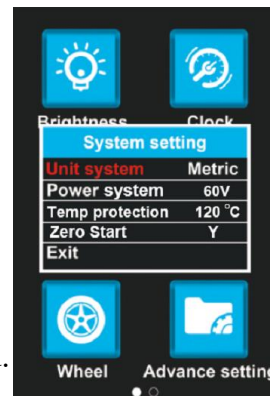
adjusting time

8.3 System setting: Press up/down button to switch different functions. Enter the option by pressing M button and press up/down button again to switch functions. Press M button to confirm current settings and press POWER button to cancel the setting and return to main menu.

Default and functions:

- ✧ Unit system → Metric/Imperial
- ✧ Power system → 48V/52V/72V
- ✧ Temp protection → 80-130 °C
- ✧ Zero start → N/Y

After finishing setting, choose Exit to return to previous menu.



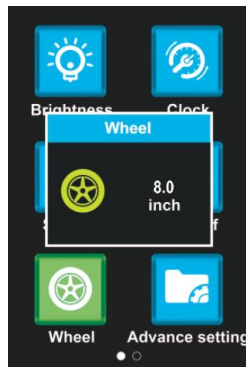
System options

8.4 Auto Off: Press UP/DOWN button to change the auto power off time. The number from 1 to 10 represents time (minutes) to shutdown and the default value is 10 minutes.



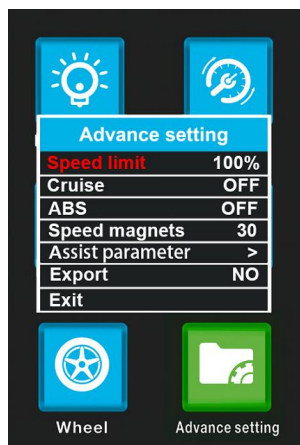
Time to auto-off setting

8.5 Wheel: Press UP/DOWN to modify the wheel diameter setting. Optional wheel diameters vary from 8 to 14 inch. Wrong wheel diameter selection can lead to abnormal speed. Press M button to confirm the setting or POWER button to cancel current setting.



Wheel diameter setting

8.6 Advanced Setting: Press M button to enter advanced setting menu. Adjusting password by pressing up/down button. Enter correct password to enter the Sub menu of advanced setting. The password is a four-digit PIN and the default password is '2112'.



Advanced setting

- ✧ Cruise→OFF/AUTO/MANUAL
- ✧ ABS ON/OFF



- ◇ Speed magnets ranges from 1 to 88
- ◇ Assist parameter: Assist1/ Assist2/ Assist3/ Assist4/ Assist5

ASSIST 1	
Speed limit	20%
EABS level	1
F start level	1
R start level	1
F current	15
R current	15
Exit	

EABS level→1 to 5

F start level→1 to 5

R start level→1 to 5

F current→current limit of front motor

R current→current limit of rear motor

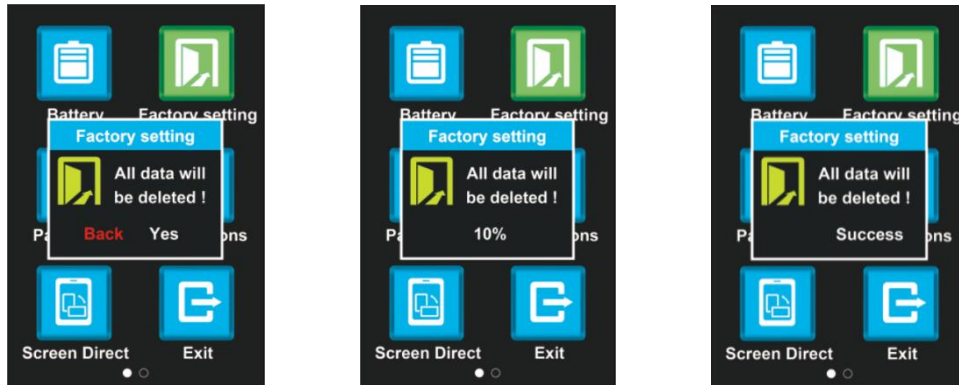
- ◇ Export→NO/YES. When the export is on, the speed is limited to 25%. And it needs certain initial speed for the motor to start power.
- ◇ After finishing setting steps, select Exit or POWER button to exit or return to the main menu.

8.7 Battery: Press M to enter into Battery information menu and information of Voltage, Capacity, Cycle times, Temperature, Last Uncharge Time, Remain Capacity and Full Capacity is indicated. Press M or POWER to exit or return to the main menu.

Battery Information	
Voltage	60.1V
Capacity	0%
Cycle Times	- - -
Temperature	- - °C
Last Uncharge Time	- - -
Remain Capacity	- - - mah
Full Capacity	- - - mah
Pass word	Informations
Screen Delay	Exit

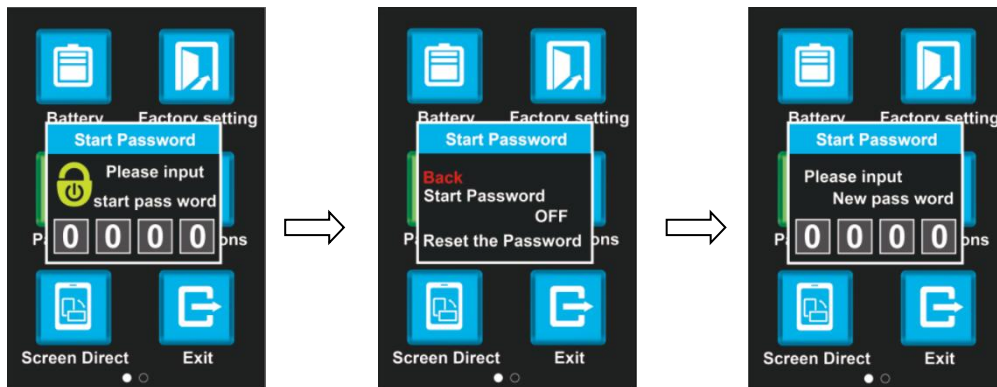
*If want to show the battery information,the battery must support tripartite communication.

8.8 Factory Setting: Enter Factory settings menu. Select YES to restore all parameter to factory settings. All the parameters except odo will be restored to factory settings. Press BACK or POWER to return to main menu.



Factory data reset

8.9 Password: Press M button to enter the password setting menu. Press UP/DOWN button to adjust the password number and enter setting menu. Choose Start Password and press ON/OFF, which means turn on/off the password. Choose Reset the Password menu to enter the new password setting menu. Default password is '0000'.



Input password

choose

Input new password

8.10 Information: Press M button and choose Information to enter information menu. It will shows speed mode and mileage mode information. After finish setting, press M button or POWER to choose return to main menu.



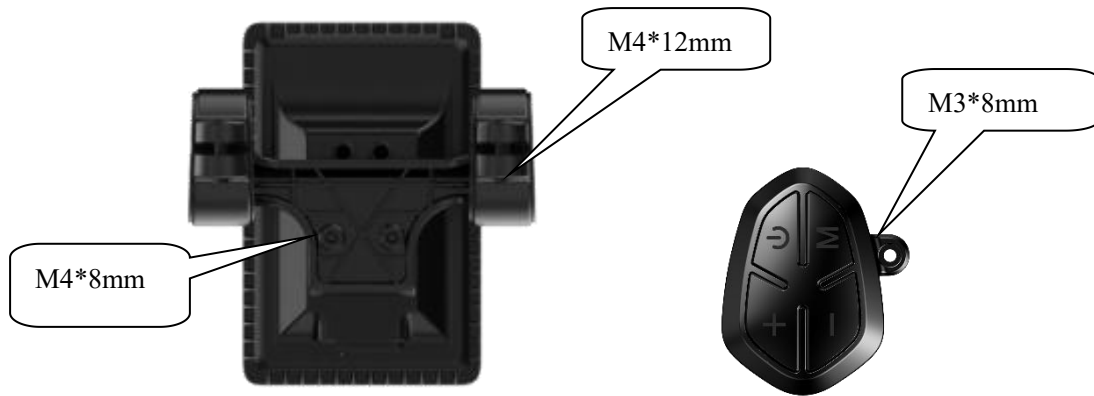
information menu



8.11 Exit the menu. Select M button to confirm or press M twice on any option in the main menu to return to the main interface.

9 Assembly instructions

9.1 Please pay attention to the screw's torque value. Damages caused by excessive torque are not covered by the warranty.



Screw installation

9.2 Clamps are suitable for 3 sizes of handlebar, 31.8mm, 25.4mm, 22.2mm. Customers can choose according to their own demands. Handlebar of 25.4mm and 22.2mm must be assembled with the corresponding adapter rings.



General view for gasket installation