

750c DISPLAY

User Guide

CYC MOTOR

support@cycmotor.com +952 3690 8938



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750c Display User Guide

Product Details

High-contrast 3.2-inch IPS colourful matrix screen, model: 750c

Firmware: CYCMOTOR LTD specific firmware

Features

- Suitable for low temperature: Max - 20°C
- Ergonomic external button design, easy to operate
- Speed display: AVG SPEED, MAX SPEED, SPEED (Real-time)
- Kilometre/Mile can be set according to user's preference
- Smart battery indicator
- 9 Assist levels: 3-levels / 4-levels / 9-levels options
- Mileage indicator: Odometer / Trip distance / Clock / Riding Time
- Power indicator: Real-time power indication; digital or analog
- Error code indicator

Dimensions & Materials



Materials

Product shell – ABS plastic

Transparent window – High strength Acrylic

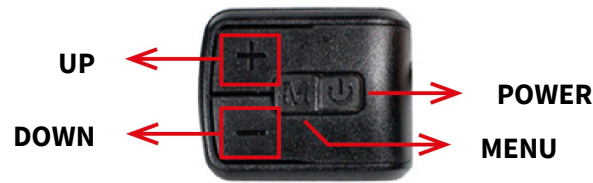
Dimensions

L 110mm x W 68.2mm x H 68mm

Electrical Specifications

- 3.2-inch IPS screen
- 36V / 48V / 52V / 72V battery supply
- Rated operating current: 40mA
- Off leakage current: <1uA
- Max output current to controller: 100mA
- Operating temperature: -20°C ~ 70°C
- Storage temperature: -30°C ~ 80°C

Main Functionalities

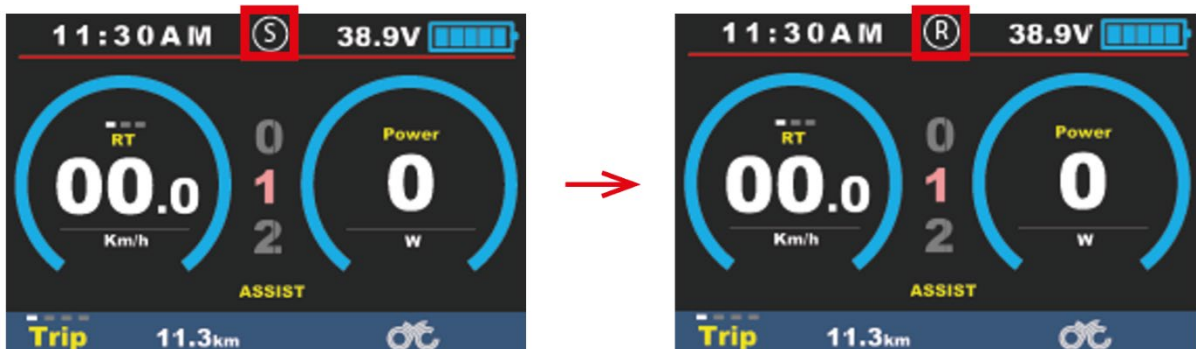


Power On/Off

Press and hold the **POWER** button for 1 second to turn the display on/off. The display will automatically shut down when there is no operation after a period of time.

Mode Switch

Double press the **POWER** button to switch between RACE mode & STREET mode. Note that this will not change the mode in real-time but rather set the start-up mode (Street mode recommended). Change the mode in real-time through the mobile app.



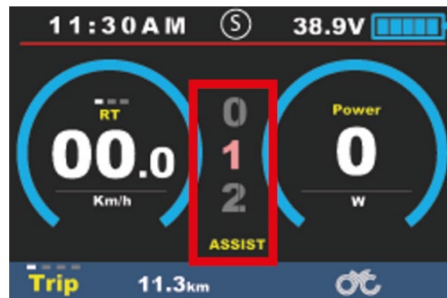
Street Mode

Race Mode



Assist Level Operating

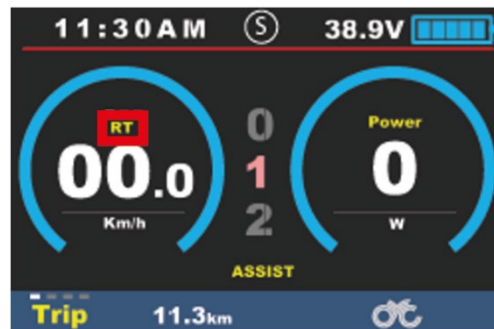
Short press the UP/DOWN button to change assist levels. The top assist level is 9 while 0 is neutral. The amount of assist levels can be adjusted according to the user's preference.



Speed Display Switch

Short press the MENU button to change speed mode: Speed -> AVG Speed -> MAX Speed.

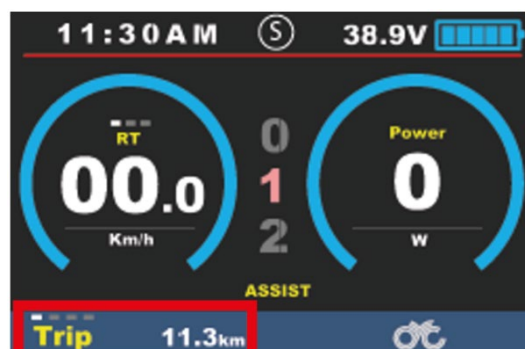
- **RT** = Real time speed
- **AVG** = Average speed
- **MAX** = Maximum speed



*If there's no operation for 5 seconds, the display will return to *real-time speed* automatically.

Mileage Display Switch

Short press the POWER button to change mileage mode: Trip -> ODO -> Time -> Range





Parameter Settings

Button Navigation

Double press the MENU button to access the settings menu. Note that the press interval must be less than 0.3 seconds. Press the POWER button to change between the Display Settings & Basic Settings.

Press the UP/DOWN buttons to change between the parameters, MENU button to select & UP/DOWN to change the selected parameter.

Press the MENU button to deselect the parameters and to set changes made.

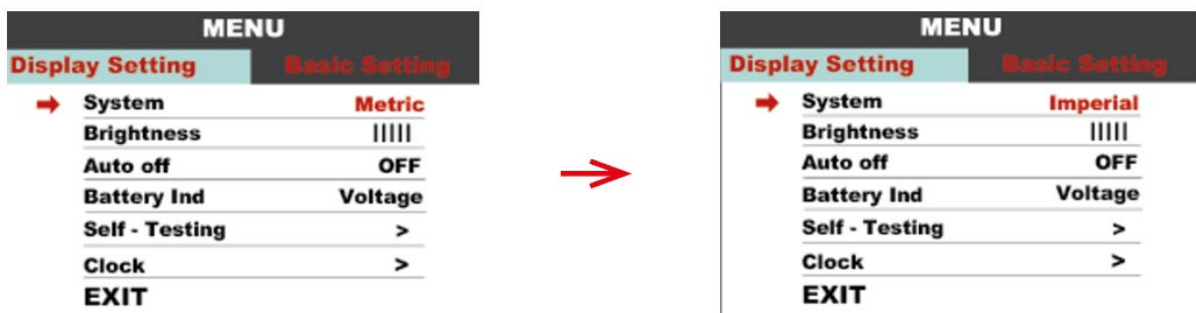
- The display will automatically quit the settings menu when there's no operation for 30 seconds
- For safety reasons, the display cannot get into the settings menu when riding
- The display will quit the settings menu when the user starts riding



Display Settings

System

Press the UP/DOWN button to change between Metric & Imperial.



Brightness

Press the UP/DOWN button to change the brightness of the display's backlight. "I" is the darkest "IIII" is the brightest.

MENU	
Display Setting	Basic Setting
System	Imperial
→ Brightness	I
Auto off	OFF
Battery Ind	Voltage
Self - Testing	>
Clock	>
EXIT	

→

MENU	
Display Setting	Basic Setting
System	Imperial
→ Brightness	IIII
Auto off	OFF
Battery Ind	Voltage
Self - Testing	>
Clock	>
EXIT	

Auto off

Press the UP/DOWN button to change the auto power off time. This can be set between 1 to 9 minutes or off.

MENU	
Display Setting	Basic Setting
System	Imperial
Brightness	IIII
→ Auto off	9 min
Battery Ind	Voltage
Self - Testing	>
Clock	>
EXIT	

→

MENU	
Display Setting	Basic Setting
System	Imperial
Brightness	IIII
→ Auto off	OFF
Battery Ind	Voltage
Self - Testing	>
Clock	>
EXIT	

Battery Ind

Press the UP/DOWN to change your battery indication. This can be set to Voltage, Capacity, Percentage, or off.

MENU	
Display Setting	Basic Setting
System	Metric
Brightness	IIII
Auto off	OFF
→ Battery Ind	OFF
Self - Testing	>
Clock	>
EXIT	

→

MENU	
Display Setting	Basic Setting
System	Metric
Brightness	IIII
Auto off	OFF
→ Battery Ind	Voltage
Self - Testing	>
Clock	>
EXIT	

Self-Testing

Please ignore! This setting is for CYC Motor Ltd use only. DO NOT attempt to change these settings as you risk corrupting display settings.



Clock

Press the MENU button to access the clock setting menu. Then, press the UP/DOWN button to set Year/Month/Day/Hour/Min/Sec.

MENU		Display Setting		Basic Setting	
System	Metric				
Brightness					
Auto off	OFF				
Battery Ind	Voltage				
Self - Testing	>				
→ Clock	>				
EXIT					

→

Display Setting		Clock	
→ Year	2021		
Month	01		
Day	08		
Hour	13		
Minute	24		
Second	56		
BACK			

Basic Settings

Wheel

Press the UP/DOWN button to change the wheel settings. The optional wheel diameter is 16 to 29 inch.

MENU		Display Setting		Basic Setting	
→ Wheel	16 inch				
Battery	36V				
Start password	>				
Advance setting	>				
Factory setting	>				
Information	>				
EXIT					

→

MENU		Display Setting		Basic Setting	
→ Wheel	29 inch				
Battery	36 V				
Start password	>				
Advance setting	>				
Factory setting	>				
Information	>				
EXIT					

Battery

Press the UP/DOWN button to change between the battery voltage settings. The optional battery voltages are 36V to 72V. Kindly note that some older 750c displays might not have the 36V setting.

MENU		Display Setting		Basic Setting	
→ Wheel	29 inch				
→ Battery	36 V				
Start password	>				
Advance setting	>				
Factory setting	>				
Information	>				
EXIT					

→

MENU		Display Setting		Basic Setting	
→ Wheel	29 inch				
→ Battery	72 V				
Start password	>				
Advance setting	>				
Factory setting	>				
Information	>				
EXIT					



Start password

Press the MENU button to access the password setting menu. The start input ON will activate on password upon start-up.

You will need to input the right password before start within 30 seconds. The display will power off automatically if the password is entered incorrectly three times.



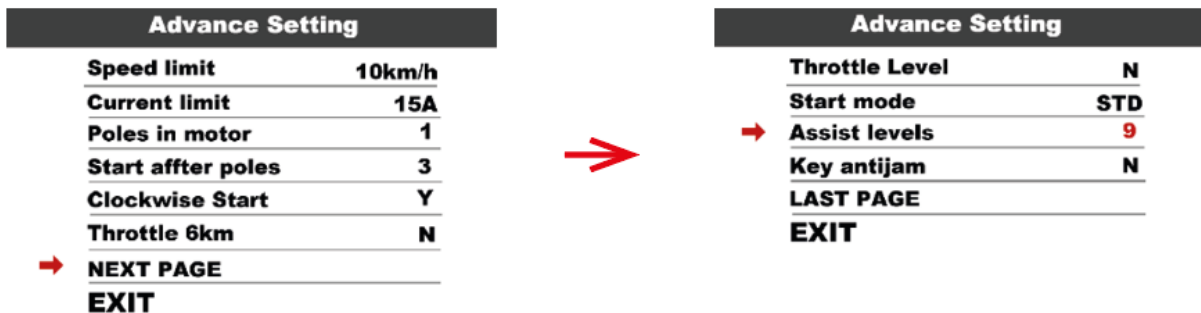
Advance setting

Press the MENU button to get into the Advance setting menu. You will need to enter your Start Input Password. The default password is 1919.

There is only 1 parameter which needs to be set as all other should be neglected and will not affect your system: Assist levels.



Go to the NEXT PAGE on the display. Here, you can choose the number of assist levels (or gears) accordingly. The available options are 3, 5, or 9 assist levels.





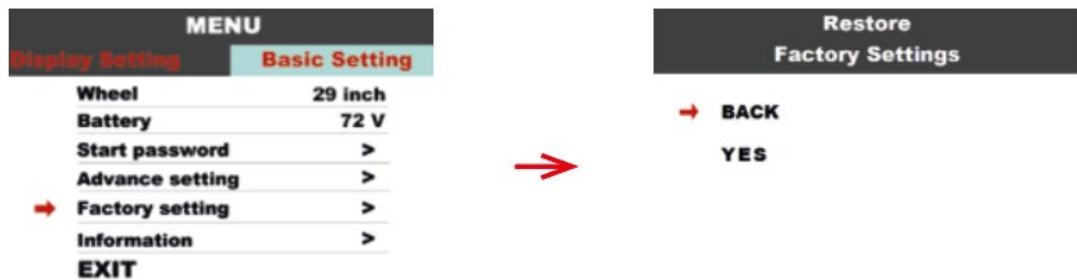
The power output will be distributed evenly across the chosen number of assist levels (or gears) according to the Assist Level Configuration and Speed Limit Assist settings on your CYC Motor (BAC) mobile app and Motor Levels Page on the CYC Ride Control App.

Note that the App Assist Level shown below can be customized in the app.

Street Mode - PAS		APP ASSIST LEVEL	3 ASSIST LEVELS	5 ASSIST LEVELS	9 ASSIST LEVELS
Rated Motor Power	750 Watts		0 (Neutral)	0 (Neutral)	0 (Neutral)
Vehicle Maximum Speed	25 km/h				
Assist Level Configuration					
Assist Gain 1	0.3 PU	1 - 0.3 (30% BY DEFAULT)	1	1	1
Assist Gain 2	0.681 PU			2	2
Assist Gain 3	1 PU				3
Speed Limit Assist					
Assist Speed 1	0.3 PU	2 - 0.6 (60% BY DEFAULT)	2	3	4
Assist Speed 2	0.681 PU				5
Assist Speed 3	1 PU				6
Others					
		3 - 1 (100% BY DEFAULT)	3	5	7
					8
					9

Factory setting

Press the MENU button to enter the factory settings menu. Selecting YES will restore all parameters on the display to factory settings. Note that this will not affect your app settings.



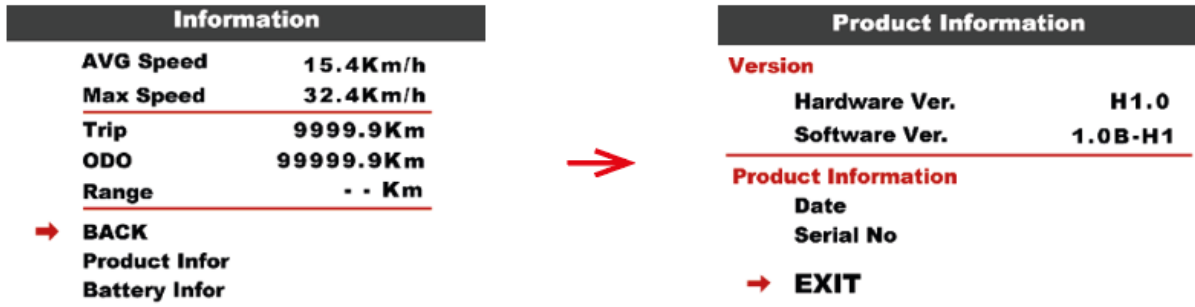
Information

Press the MENU button to show information of the eBike, including the average and maximum speeds, the current trip distance, ODO, and range.

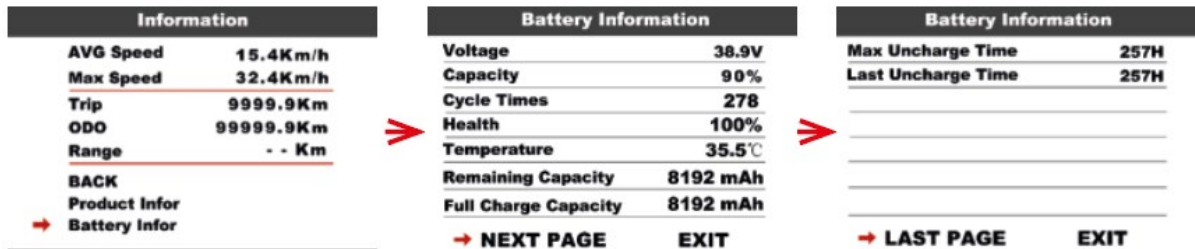




Press the MENU button to select Product Infor. This menu will show you the display’s information including its hardware and software versions as well as the display’s serial number.



Press the MENU button to select Battery Infor. This menu will show you all the battery information provided that the information is supported by the battery communication system.



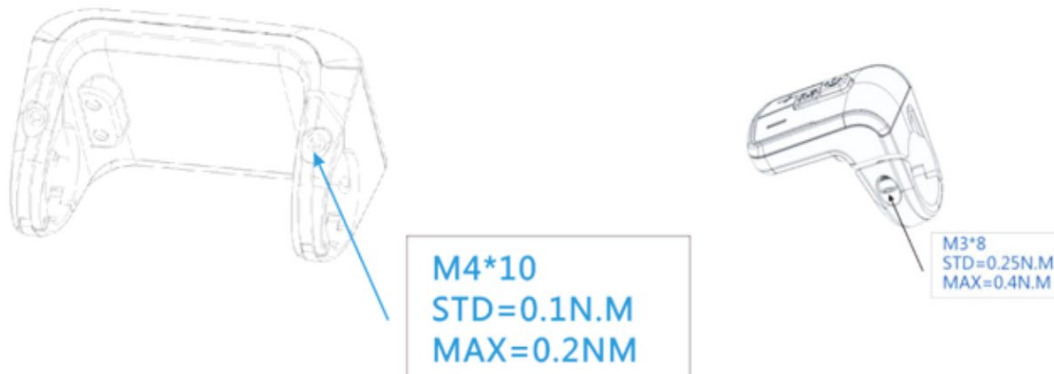
Error Codes

In certain circumstances, an error code may appear on your display. Please refer to the CYC Motor (BAC) mobile application user guide for instructions on how to clear the errors and for further details on what these errors entail. Contact us for assistance.

Error Code	Description
Error 21H	Instant Resume not enabled
Error 22H	Throttle error
Error 24H	Hall sensor error
Error 30H	Communication error

Assembly Information

Please note that the torque requirements described below as excessive torque can cause damage.



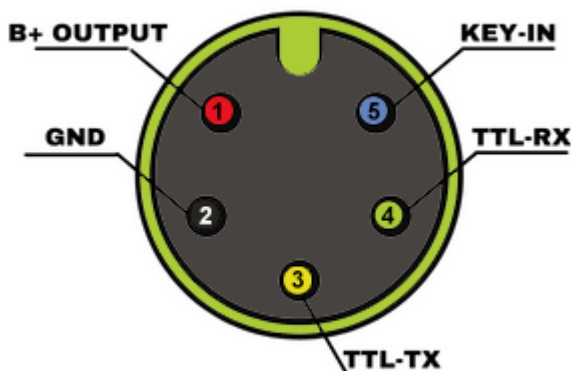
Compatibility

The clamps are suitable for 3x different handlebar sizes: 31.8mm, 25.4mm, and 22.2mm.

There are transfer rings included for 25.4mm and 22.2mm (marked with L or R) as shown below. Be sure to pay attention to the directions below to insert the transfer rings correctly.



Pin Layout



Male 5-Pin Connector

1. **Red Wire:** Anode (36V to 72V)
2. **Black Wire:** GND
3. **Yellow Wire:** TxD (display -> controller)
4. **Green Wire:** RxD (controller -> display)
5. **Blue wire:** Power cord to the controller



Certification

CE / IP65 (waterproof) / ROHS

Be sure to contact us if further assistance is needed. Thank you!

Quick Start Guide

There are a few things you need to set up and check after installing your kit.

- Ensure that all wires are properly connected, and your system can switch on by pressing the display's power button. Check that the display shows your battery voltage and level. Should your display briefly show error 30H upon start-up, this is normal.
- Ensure that your pedal assist and throttle are working completely. To test this, connect to the CYC Motor (BAC) mobile app and change to Assist Level 0 on your display. You can test the PAS by looking at the app's dashboard and turning the crank set.
- Set up the correct information on your display. You will need to enter your wheel diameter, battery voltage (if incorrect), & your preferred number of assist levels.