



MANUAL

S.Widom LCD Display manual for E-Bikes





SAFETY AND SHINGA

SAFETY COMES ALWAYS FIRST. READ THE FOLLOWING SAFETY ADVICES THOROUGHLY REGARDING OUR (ELECTRICAL) BIKES:

- 1. SHINGA E-BIKES ARE EQUIPPED WITH AN ELECTRIC MOTOR. IT IS OF GREAT CONCERN TO LEARN HOW TO USE THE E-BIKE PROPERLY AND DRIVE IN COMPLIANCE WITH THE LOCAL TRAFFIC REGULATIONS. WE ADVISE FIRST TO DO SOME PRACTICE RUNS ON EASY ROADS AND LESS TRAFFIC TO GET FAMILIAR WITH THE E-BIKE**
- 2. DON'T STAND ON THE PEDALS WHEN YOU START RIDING THE BIKE. SIT FIRST ON THE SADDLE AND START PEDALLING**
- 3. RIDE PREFERABLY THE FIRST FEW DRIVES WITHOUT THE ELECTRIC MOTOR TO GET FAMILIAR WITH THE E-BIKE. START GRADUALLY WITH LOW POWER SETTING AND INCREASE ONCE YOU ARE FAMILIAR WITH THE E-BIKE**
- 4. THE SHINGA E-BIKES ARE TESTED BY US. TESTS TAKES APPROXIMATELY 15MIN ACCORDING OUR PROTOCOL. HOWEVER, IF IN ANY DOUBT REGARDING THE BIKE AND THE ELECTRONIC INSTALLATION, CONTACT US IMMEDIATELY**
- 5. DO NOT EXPOSE BATTERY AND CHARGER IN DIRECT SUN. BATTERY IS PROTECTED AGAINST HEAT, BUT OVERHEATING MUST BE AVOIDED AT ALL TIMES**
- 6. ONLY USE THE ORIGINAL CHARGER SUPPLIED WITH THE E-BIKE TO AVOID DAMAGE TO THE BATTERY AND THE ELECTRONIC INSTALLATION**
- 7. BRAKES ARE PROVIDED WITH "ABS" SAFETY. WHEN YOU BRAKE (AND STOP PEDALLING), THE ELECTRIC MOTOR WILL STOP**
- 8. WE ADVISE TO USE A HELMET WHEN RIDING THE BIKE**

SHINGA E-BIKES ARE MANUFACTURED ACCORDING EUROPEAN GUIDELINES AND REGULATIONS. FOR QUESTIONS AND/OR REMARKS, YOU CAN CONTACT US ON THE BELOW MENTIONED CONTACT INFORMATION.

WE ARE ALWAYS AVAILABLE FOR OUR CUSTOMERS:

E-MAIL: SERVICE@SHINGA.NL

TELEPHONE: +31 85 401 2738

WITH KIND REGARDS,

Ton van den Oetelaar

CEO Shinga BV

*** Shinga follows guidelines: EN 14764 + for electronic parts EN 15194, see page 13**



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Introduction

Thank you for choosing Shinga. This manual is written for convenient use and to safeguard the use of the E-Bike. After reading this manual you can get familiar about the functions and proper use of our E-bikes. The technical design of the E-Bikes are reliable, we use quality parts and together with our high standard of service, we can provide you with an E-bike which is easy to use, reliable, all together with a high range. Therefore an ideal transport for all our customers around the globe. Your opinion is highly appreciated to improve our products and to create a perfect bike with the latest technology

We strive to produce an E-bike that meets the requirement and needs of our customers.

Safety tips

1. Check on a regular basis for external damage before you use the E-Bike.
2. Drivers can reduce the possibility of accidents by:
 - a. Wearing light clothes;
 - b. Use of (head)lights;
 - c. Keep distance with other vehicles;
 - d. Comply to local traffic regulations;
 - e. Reach hand out to the direction before you turn;
 - f. Never use one hand for a longer time to steer. Use both hands;
 - g. Never ride the bike with 2 or more persons (exception for one small child on the backseat);
 - h. Do not brake extreem during rain or wet road.
3. Caution with loose clothes.
4. Caution when wearing long overcoat, long dresses during step up/out and drive.
5. Carrying goods/bagage;
 - a. Do not exceed payload more than 25 Kgs or a total weight of 140 Kgs with the E-Bike, driver weight and goods;
 - b. Secure goods/baggage before you ride;
 - c. Preferably no baggage on the steer to avoid swaying of the E-Bike.
6. Do not use Pressure washer to avoid electrical damage.
7. Maximum of 10 Kgs static load of the steer. Do not use child seat up front.
8. Baggage carrier is only to be used for baggage.

! Safety regulations !

1. To ensure safe driving, it is important to read the instructions. For any discrepancy in our manual, contact us.
2. Comply to local traffic regulations , do not ride with 2 or more persons, reduce speed during bad weather, wet road or down/uphill.
3. The E-bike can be used during rain and snow, but it must not be immersed in water to prevent damage to the motor, battery and electrical parts.
4. Reparation must only be done by Shinga or its approved agent with parts approved by Shinga.
5. Never lend the E-Bike to persons not familiar with E-bikes to prevent accident and injury.
6. Do not drink and drive. Stay focus while riding.
7. Maximum payload is 140 kgs.
8. Exceeding payload may decrease safety and increase damage to the E-Bike.
9. Do not modify the E-bike yourself. This will void the warranty.
10. The maximum speed is set to 25Km/h. It is not permitted to increase the maximum speed. If changes are made in the settings, the driver will be liable for any accidents occurred.
11. When the front fork or steer is damage after an accident, it must be replaced to insure the bike's integrity.

Manual LCD DISPLAY

Caution when using the LCD display. Do not plug display unit while bike is in power situation. Avoid bump and damage to the display unit.

Display unit has a waterproof film. Do not remove or tear the foil. It will affect the water resistance of the display unit.

Changes to the parameter settings only to be set by Shinga BV or its dealer, otherwise the guaranty of the display unit will be voided.

Guaranty will also be voided in situations like opening the display unit, damage to the connector, damage to the housing or any other damages, like fire, water, dropping the unit and others.

Important notice:

According to the Dutch regulations an electric bicycle must be equipped with the following:

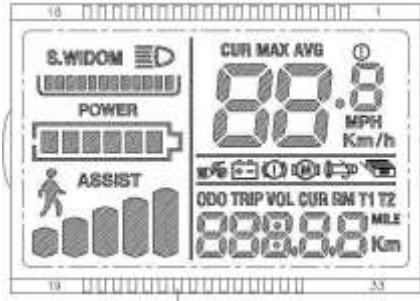


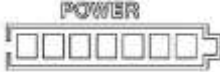
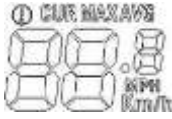


- Two independent functioning brakes
- Head light
- Rear light
- Spoke reflector, reflective tires or rimes
- Pedals with reflectors
- Front reflector (if not build in head light)
- Rear reflector


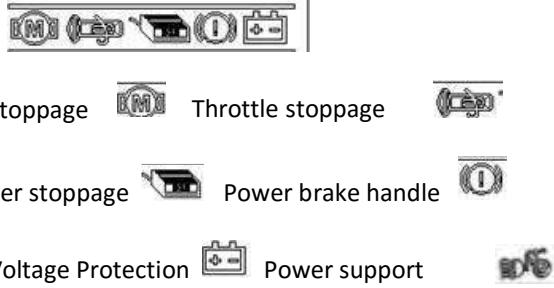


Pre-ride checks:





Check on a regular basis the following components:

- Brakes
- Spokes
- Lights
- Bike bell
- Tire tensions (minimum 3.5 bar, maximum 5.0 bar)
- Tire profile
- Securing the battery
- Electrical system operations

How to use the display unit:

<p>1. Functions Display. To display speed, assistance display, battery indicator, mileage, accumulative mileage, cruise constant speed, malfunctions, brake indicator and headlight display.</p> <p>* Turning On display will turn on backlight. Symbols are shown black.</p>	
<p>Head/rear Light</p>	
<p>Current state grade (this function need controller's software support)</p>	
<p>Voltage status grade Power</p>	
<p>Digital Speedometer. Max speed/average. MPH or KM/U</p> <p>Speed has 4 ways to come true , depending on the specific way, partial way could compose.</p> <ol style="list-style-type: none"> 1. Hall signal attaching electric motor 2. Controller send Hall signal of motor to meter 3. slow speed Hall signal as the type run a circle. 4. Controller send signal of slow Hall signal as type run a circle to meter. <p>(single Hall cycle, Unit : 1MS) The meter could calculate true speed according to the data of wheel diameter and the signal's data (electric motor's Hall need to set up the magnet steel's quantities)</p>	
<p>Power support assistance display. (1-5)</p>	
<p>Autodrive (6 KM/H) Not available on E-Bikes equipped with older type Torque sensor.</p>	

<p>Through the multi-functional display unit option “CUR”, you can check the battery status.</p> <p>Total KM/Mileage (ODO)、 Trip computer (TRIP)、 Digital Voltage (VOLT)、 Digital current (CURRENT)、 Surplus mileage (RM) and Run time (TIME)</p>	
<p>Malfunction/ Status display</p>	
<p>2. Functions control and setting.</p> <p>Simple Start: On/Off switch, light switch, 6KM/HR auto drive, Real time cruise control, Wheel diameter’s setting, 5 mode assistance’s setting, Highest speed setting, Automatic dormancy time setting, Backlight brightness setting, startup mode, drive mode is set, power sensitivity setting, dynamical disk type, voltage grade setting, controller set current limiting values.</p> <p>You can alter parameters through the menu options: Speed, wheel diameter, 5-electric support stands, maximum speed, auto stand-by, display illumination, startup mode, power sensitivity, dynamical disk type, voltage setting, predefined settings.</p>	
<p>3. How to press the buttons.</p> <p>There are 3 different ways to press: Short (1 sec) Long (2 sec) Combination of pressing 2 buttons simultaneously (3 sec)</p>	
<p>4. Turning on display. Press “C” button for 2 seconds to turn On display.</p> <p>U can press “C” (1sec) while driving to get access to some functions and features. Pressing again to go to next mode.</p>	
<p>5. Increase/decrease electric support. Pressing one of these buttons while driving may increase or decrease electrical power support (between 1-5)</p> <p>short = 1 support stand higher/lower</p>	

<p>6. Reading data information. By pressing “C” button while driving you can toggle between the different data information on the display unit.</p>	
<p>7. Changing speed display from KM to Miles. Press both buttons simultaneously for a few seconds.</p>	
<p>8. To set auto drive (6 KM/H). Press a few seconds to turn On/Off. Warning! When turned on, auto drive will be engage immediately. To turn off, press same button or use brake handles.</p>	
<p>9. Head/rear light. Press a few seconds to switch light On/Off.</p>	

Advanced settings:

Warning:

Changes to advanced settings only to be set by Shinga or Shinga service dealer. Shinga does not hold any liability if any changes are made without the approval of Shinga. The settings are in accordance with the EU guidelines and regulations.

1. Access to advanced parameters settings.

Press both buttons simultaneously for 3 sec to access advanced parameter settings. You can change the values of the predefined settings (P01-P14)
With “+” and “-“ you can change the values.



Settings:

P01: Brightness Backlight display: 1=darkest, Stand 2=mid, Stand 3=brightest.

P02: Setting for speed display: KM=0, MILE=1

P03: Voltage setting: 24V, 36V, 48V, (36V = standard default)

P04: Standby time: 0 =no standby; other values indicates the number of minutes.

P05: Assistance gear (voltage signal values)

0, 3Mode: 1lever2V、 2lever3V、 3lever 4V, 4lever 5V, 5levelr6V

1, 5Mode: 1levelr2V、 2lever 2.5V、 3lever 3V, 4lever 3,5V, 5lever 4V

P06: Wheel diameter: unit= inches (Accuracy=0.1)

P07: Speed measuring magnetic steel number: range: units: 1-100 (do not change)

P08: Speed setting from 0-50 KM/HR (default 50. This value does not indicate speed limit)

Note: When the speed is greater than the set speed, shut off the PWM output; When speed down to less than the set speed, automatically open the PWM output, driving speed to the current + 1 km/h; Numerical based on km as a benchmark here, after the unit set from miles to miles, display the speed of numerical value is automatically converted to the correct miles, but miles under the interface of the menu in the values of speed limit set by the data conversion, MPH speed limit values are not consistent with the actual display

P09: Startup setting from Stop. 0=Start, 1=Don't start

P10: Drive mode setting:

0= Power drive. (decided how much output power by power gear, at this time to turn the invalid)

1= Electric (by going to drive, steering gear is invalid at this time)

2= Power drive and electrical drive coexist (electric zero start state is invalid. This option turns P09 off)

P11: Power sensitivity setting range: 1-24.

P12: Assistance start the intensity setting range: 0-5

P13: Power magnetic steel plate type 5 Sherwin grain of magnetic steel three types

P14: Controller for the current limit value to set,12A (by default) range: 1 - 20 A

These standard settings apply for Europe with the exception of the U.K.:

P01=3, P02=0, P03=36, P04=0, P05=1, P06=20, P07=1, P08=25, P09=1, P10=2, P11=2, P12=1, P13=8, P14=14

2. Press “C” button for a few seconds to save current value.



3. Press both buttons simultaneously to save settings. Auto save after 10 seconds.



Technical specifications:

Technical aspects:

Item No : 850-A (model 2013)

Voltage options : DC24V- 36V- 48V

Wiring:

Red (D+) = main power.

Black (GND) = ground.

Blue (DS) = to controller.

Yellow (DD+) = to light (When controller regulate light true hard/software, this does not need to be connected)

Green (DAT) = data receive.

White (TX) = data send.

Contact information Shinga BV



SHINGA BV | Molendijk Zuid 23B | 5482 WZ Schijndel | The Netherlands |

Email: info@shinga.nl | KVK : 62140957

BTW: NL854680950B01



EU Declaration of Conformity concerning machines

Supplier:	Technical documents:	Manufacturer:
SHINGA BV	VAN DEN OETELAAR (SHINGA BV)	Changzhou ZhiPu Electronics Co.
MOLENDUIK ZUID 23B	HARRY JANSENLAAN 12	RENMIN WEST ROAD NO. 188, NIUTANG TOWN, SHIJIA VILLAGE,WUIJN
5482 WZ SCHIJNDEL	5481 CB SCHIJNDEL	CHANGZHOU, JIANGSU, CHINA

Product: LCD DISPLAY

Model: S.WIDOM 850-A

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SHINGA E-BIKES EQUIPPED WITH THIS TYPE OF LCD-DISPLAY ARE MANUFACTURED ACCORDING AND IN APPLIANCE WITH EUROPEAN UNION GUIDELINES AND REGULATIONS CONCERNING ELECTRIC BIKES WITH A MAXIMUM SPEED OF 25 KM/HOUR AND A MAXIMUM MOTOR OUTPUT OF 250W

THE FOLLOWING "EN" (ISO) STANDARDS APPLY:

EN ISO 12100:2010 ; EN 15194:2009 ; EN 14764:2005 ; EN 349:1993+A1:2008 ; EN 953:1997+A1:2009 ; EN 13857:2008

EU GUIDELINES APPROVAL:

2006/42/EC MACHINERY DIRECTIVE ; 2006/95/EC LOW VOLTAGE DIRECTIVE ; 2004/108/EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

EU CERTIFICATION AGENCY: ENTE CERTIFICAZIONE MACHINE S.R.L., VIA MINCIO 386, 41056 SAVIGNANO, ITALIE ; NOTIFICATION AGENCY EU-TYPE EXAMINATION NUMBER: 1282

CERTIFICATE NUMBER: 111123/ZJV845

CERTIFICATE DATE: NOVEMBER 2011