TOPOLOGY

PRODUCTS CATALOG

2023

ABOUT US

Zhejiang Topology Intelligent Technology Co., Ltd. was established in June 2016, fully invested and controlled by JIANDE WUXING BICYCLE CO., LTD., with founding members from Wuxing Bicycle (Hangzhou) R&D Center. We are a technology company specialized in the design and development of electric bicycle meter solutions. The company has departments for design, R&D, marketing, production and manufacturing, and all of our designs, from industrial design to product structure, as well as hardware design to software development, are independently created. Through our design, development, and manufacturing capabilities, we provide customers with the best application experience and differentiated value-added products, continuously leading the market trends and direction.

PROFESSIONAL MANUFACTURING

Our factory is certified with ISO9001 and TS16949 management system certification. With a mature ERP system, we coordinate internal processes and factory processes effectively. We have also built a new instrument production workshop, equipped with numerous automatic/semi-automatic production equipment to ensure the consistency of production processes. By consolidating our R&D platform, structure, processes, and manufacturing processes, we aim to achieve a more stable, reliable, and faster production of products in large quantities.

HMI

DZ39   DS102/2

DZ40   DS103

DZ41   DS104

SW102/2   DZ43

DZ45   DZ47

DZ49   160PDD

DZ32   124DX

Our great variety of displays with LCD, TFT and OLED screens are designed to be modern and intuitive. The separate mounting bracket is a perfect fit for every bike, our displays are IP65 dust and water proof. A reliable companion on all terrains.

NEW

DZ39

Color LED display type

Dark semi transparent PC window material

3 Hard plastic buttons

Can be matched with central display

SPECIFICATIONS

Dimensions/ Size	L 44mm W 44mm H 47mm
Weight (g)	25g
Material	PC/ABS/PA
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	Color LED
Nominal Voltage	DC 24V/36V/48V
Current	18mA ～ 25mA /36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2
Display Information	PAS level / battery indicator
	error alarm / walk etc.
Tests& Certifications	
Waterproof	IPX5
Cerifications	RoHS/CE

44.1

44

47.27
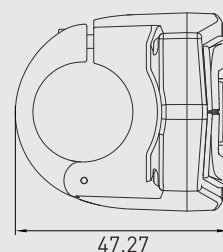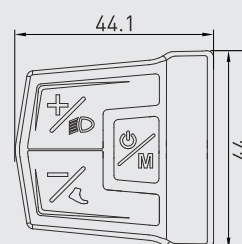
MAIN FEATURES

Simplified to the extreme 5-segment multi-color LED display.

It can indicate the power and assist level at the same time.

Can combinate with the center display.

It is applicable to EN 15194-2017.

DZ40

DZ40BT

NEW

1.3"Monochrome LED display type

4 Hard buttons

Dark semi transparent PC window material

Arc display interface,hide button

SPECIFICATIONS

Dimensions/ Size	L 48mm W 27mm H 44mm
Weight (g)	28g
Material	PC/ABS/PA
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	LED
Nominal Voltage	DC 24V/36V/48V
Current	18mA ～ 25mA /36V

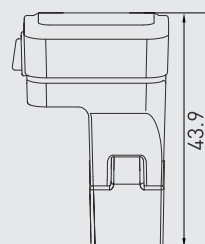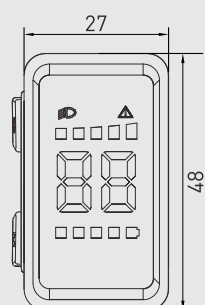**Mounting Parameters**

Communication	UART
Handlebar for Holding	Ø 22.2
Display Information	PAS level /speed / battery indicator light status / error alarm / walk etc.

Tests& Certifications

Waterproof	IPX5
Cerifications	RoHS/CE

27
48
43.9

MAIN FEATURES

Extremely simple surface display design, completely hide the operation button.

It is not only the display screen but also the operation button, which ensures the operation feel and controls the product size to the extreme.

High quality alloy material;

No screw assembly process;

Narrow frame design;

It is applicable to EN 15194-2017.

NEW

DZ41

2" Display screen,LED

4 Hard plastic buttons

Dark semi transparent PC window material

Functional division of color

SPECIFICATIONS

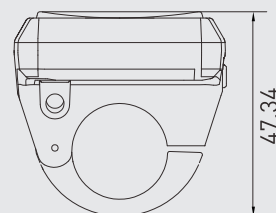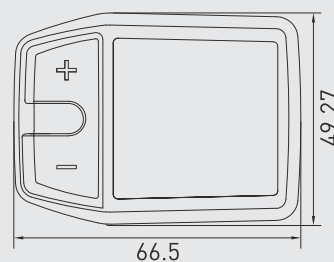|	
Dimensions/ Size	L 67mm W 49mm H 47mm
Weight (g)	56g
Material	PC/ABS/PA
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	LED
Nominal Voltage	DC 24V/36V/48V
Current	18mA ～ 25mA /36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2
Display Information	PAS level / speed / trip /ODO / light status
	battery indicator /error alarm / walk etc.
Data Port	Bluetooth(Optional)
Tests& Certifications	
Waterproof	IPX5
Cerifications	RoHS/CE

49.27
66.5

47.34

MAIN FEATURES

Multi-functinal left side display.
Simple screen state when power off.
Multicolor LED with different functions,
and provide perfect button operate feeling.

NEW

SW102/2

🔲 1.3"OLED screen(64*128 pixels)

⏻ 4 Hard buttons

2.5D With 2.5D shape craft

🔧 Non-screw assembling craft

SPECIFICATIONS

Dimensions/ Size	L 68mm W 42mm H 23mm
Weight (g)	31g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	1.3"OLED
Nominal Voltage	DC 24V/36V/48V
Current	12mA/36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2
Display Information	PAS level / speed / trip / ODO / light status
	battery indicator / error alarm / walk etc.
Data Port	Bluetooth(Optional)
Tests& Certifications	
Waterproof	IPX5
Cerifications	RoHS/CE

TOPOLOGY
68.3
23.4
41.82
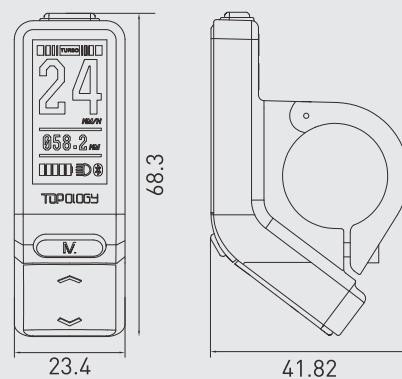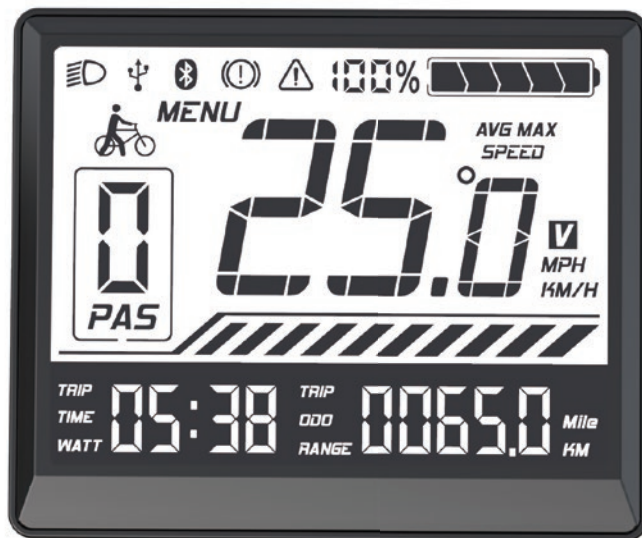
SMALL
BUT FUNCTIONAL

Iteration

Everything is just right , and the brightness improved,

better reading in the sun.

Improve the operation feeling of the buttons.

The structural strength has been improved.

It is applicable to EN 15194-2017.

NEW

DS102/2

SPECIFICATIONS

Dimensions/ Size	L 77mm W 84mm H 48mm
Weight (g)	100g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	3.5"FSTN
Nominal Voltage	DC 24V/36V/48V
Current	20mA/36V

Mounting Parameters

Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	PAS level / speed / trip /ODO / light status
	battery indicator /error alarm / walk etc.
Data Port	Bluetooth(Optional)

Tests& Certifications

Waterproof	IPX5
Cerifications	RoHS/CE

77.18

83.89

48.5

MAIN FEATURES

 3.5"FSTN segment screen with wide view angle

 Multi-angle install design

 Simple style,slim design

 Tempered glass or oblique cut tempered glass

 Non-screw assembling craft

 Full-screen design

3.5"FSTN segment screen with wide view angle.

It is applicable to EN 15194-2017.

NEW

DS103

SPECIFICATIONS

Dimensions/ Size	L 72mm W 91mm H 47mm
Weight (g)	100g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	3.5"TFT
Nominal Voltage	DC 24V/36V/48V
Current	30mA/36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	PAS level / speed / trip /ODO / light status
	battery indicator /error alarm / walk etc.
Data Port	Bluetooth(Optional)
Tests& Certifications	
Waterproof	IPX5
Cerifications	RoHS/CE

90.59

72

47

MAIN FEATURES

3.5"TFT screen(320*480 pixels)

Multi-angle install design

Simple style,slim design

Tempered galss window materail

Non-screw assembling craft

BLE module optional

Full-screen design

3.5" HD TFT color screen with rich functions.

It is applicable to EN 15194-2017.

NEW

DS104

MAIN FEATURES

Segment & Dot matrix combination

Multi-angle install design

Simple style,slim design

Tempered galss window materail

Non-screw assembling craft

Full-screen design

Segment & Dot matrix combination LCD screen.

It is applicable to EN 15194-2017.

SPECIFICATIONS

Dimensions/ Size	L 72mm W 91mm H 48mm
Weight (g)	108g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	3.4"Segment & Dot matrix
Nominal Voltage	DC 24V/36V/48V
Current	30mA/36V

Mounting Parameters

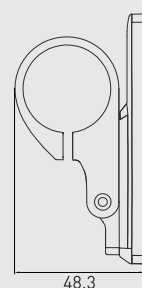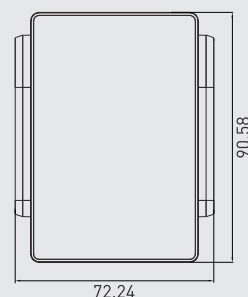|	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	PAS level / speed / trip/ODO / light status battery indicator /error alarm / walk etc.
Data Port	Bluetooth(Optional)

Tests& Certifications

Waterproof	IPX5
Cerifications	RoHS/CE

90.58

72.24

48.3

NEW

DZ43

MAIN FEATURES

 3.2"VA multicolor full perspective segment

 Motocycle musle style

 USB charging function

 Light sensor

SPECIFICATIONS

Dimensions/ Size	L112mm W 102mm H 55mm
Weight (g)	142g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	3.5"VA
Nominal Voltage	DC 24V/36V/48V
Current	42mA /36V

Mounting Parameters

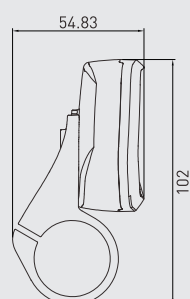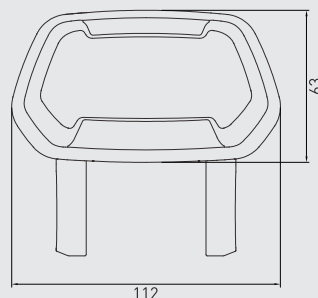|	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	Speed / trip /ODO / USB / reset distance S.T. / light status / battery indicator /error alarm / walk etc.

Further Specifications

Data Port	Bluetooth(Optional)

Tests& Certifications

Waterproof	IPX5
Cerifications	RoHS/CE

63

112

54.83

102

NEW

DZ45

SPECIFICATIONS

Dimensions/ Size	L81mm W 27mm H 26mm
Weight (g)	45g
Material	ABS
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	1.3"OLED
Nominal Voltage	DC 24V/36V/48V
Current	12mA /36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	built-in
Display Information	PAS level / speed / trip /ODO / light status / battery indicator /error alarm / walk etc.
Further Specifications	
Data Port	Bluetooth(Optional)
Tests& Certifications	
Waterproof	IPX5
Cerifications	RoHS/CE

26.95   26.22

81.28

MAIN FEATURES

1.3"OLED screen(64*128 pixels)

Embedded in the frame

Non-screw assembling craft

External switch control or single button control buit in dispaly.

NEW

DZ47

	2.2" Display screen,LCD		Tempered galss window materail
	With 2.5D shape craft		Light sensor

SPECIFICATIONS

Dimensions/ Size	L86mm W44mm H64mm
Weight (g)	80g
Material	ABS/PA
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	2.2"segment LCD
Nominal Voltage	DC 24V/36V/48V
Current	20mA~42mA /36V

Mounting Parameters

Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	PAS level / speed / trip /ODO / light status
	battery indicator /error alarm / walk etc.

Further Specifications

Data Port	Bluetooth(Optional)

Tests& Certifications

Waterproof	IP65
Cerifications	RoHS/CE

44.45
64.45
86.4
11.8
63.7
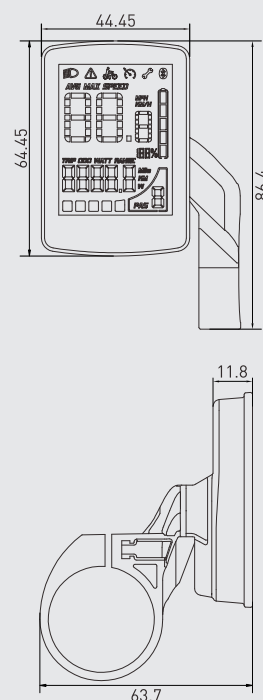
MAIN FEATURES

2.2" Display screen,LCD

with a unilaterally changeable direction fixed bracket.

NEW

DZ49

| | 2" Display screen,TFT | | In-Cell Full Lamination Screen Technology |
| **2.5D** | With 2.5D shape craft | | Light sensor |

SPECIFICATIONS

Dimensions/ Size	L85mm W 65mm H 60mm
Weight (g)	73g
Material	PC/ABS
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	2" TFT
Nominal Voltage	DC 24-85V
Current	18mA~25mA /36V
Mounting Parameters	
Communication	UART/CAN
Handlebar for Holding	Ø 22.2/25.4/31.8
Display Information	PAS Level / Speed / Battery Indicator /
	Light status / Error Alarm / Walk etc.
Further Specifications	
Data Port	Bluetooth(Optional)
Tests& Certifications	
Waterproof	IP65
Cerifications	RoHS/CE

58.82
42.65
84.91
60.47
19.05
65
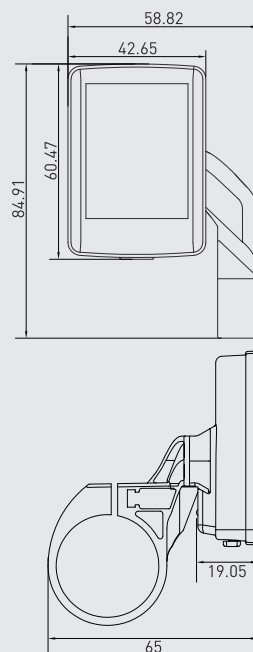
MAIN FEATURES

Our product features a full lamination 2-inch (240*320) true color screen, with a unilaterally changeable direction fixed bracket.

160PDD

The product integrates the trinity design of the display, the brake lever and the electronic control button structure to reduce the assembly process and make the handlebar more concise. The design angle between the instrument and the brake lever is a 45° angle design, which will show the best display to the rider.

SPECIFICATIONS

Dimensions/ Size	L 165mm W 116mm H 57mm
Weight (g)	145g
Material	ADC10 (Aluminum)
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	1.5"LCD (FSTN)
Nominal Voltage	DC 24V/36V/48V
Current	18mA~25mA/36V

Mounting Parameters

Communication	UART
Display Information	ODO/TRIP/ Speed/Battery Indicator/Light status/Error Alarm/Walk/Gear selection etc.

Tests& Certifications

Waterproof	IP65
Cerifications	RoHS
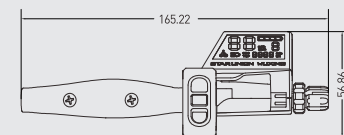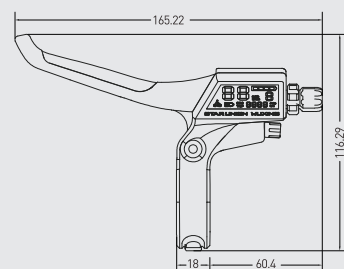
DZ32

The instrument has a thin body design style, the main plane is only 6.4mm.

SPECIFICATIONS

Dimensions/ Size	L 117mm W 73mm H 63mm
Weight (g)	145g
Material	ABS
Operating Temperature	-20°C ~ 60°C

Core Data

Display Type	3.5"LCD (HTN)
Nominal Voltage	DC 24V/36V/48V/60V
Current	18mA~25mA/36V

Mounting Parameters

Communication	UART
Display Information	PAS Level/Speed/TRIP/ODO/Light status Battery Indicator/Error Alarm/Walk etc.

Tests& Certifications

Waterproof	IP54
Cerifications	RoHS
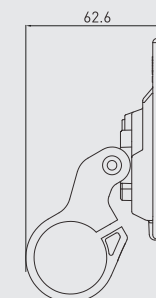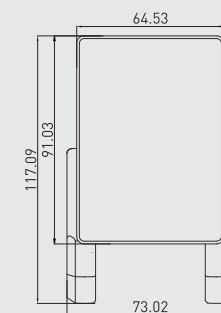
124DX/3

SPECIFICATIONS

Dimensions/ Size	L 72mm W 60mm H 68mm
Weight (g)	67g
Material	ABS+TPR/PVC
Operating Temperature	-20°C ~ 60°C
Core Data	
Display Type	1.25"LCD (FSTN)
Nominal Voltage	DC 24V/36V/48V
Current	18mA~25mA/36V
Mounting Parameters	
Communication	UART
Display Information	ODO/TRIP/Speed/Battery Indica/Light status/Error Alarm/Gear selection etc.
Tests& Certifications	
Waterproof	IP65
Cerifications	RoHS

34.9

71.9

60.8

124DX

68.4
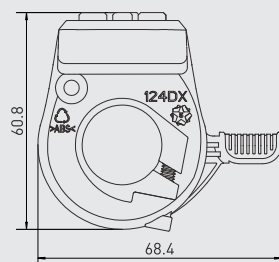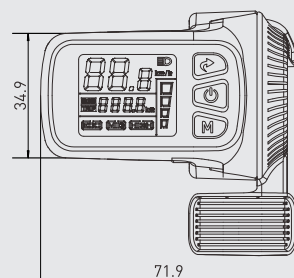
MAIN FEATURES

This LCD meter combines the function of a stopwatch and a power assist thumb throttle to simplify process and reduce the cost of wiring harness integration.The compact and minimalist design style meets the needs of scooters,mopeds,and various models of electric vehicles.Switch kilometers or miles display units according to different market area settings to meet different markets.

124DX+HT390

124DX+HT375

ODM CUSTOMIZATION SERVICE

Provides precise positioning services to foreign electric bike and power system manufacturers, and has close partnerships with many well-known brands both domestically and internationally in the two-wheel industry, such as Rocky mountain, Rad power, BMZ, Tenways, Prophete, Eggrider, and others.

ROCKY MOUNTAIN

RAD POWER BIKES

BMZ
THE INNOVATION GROUP

TENWAYS

prophete
keep moving

EggRider

Exterior design — Hardware design — Structural design — Software development

Mass production — Sample provision — Mold manufacturing
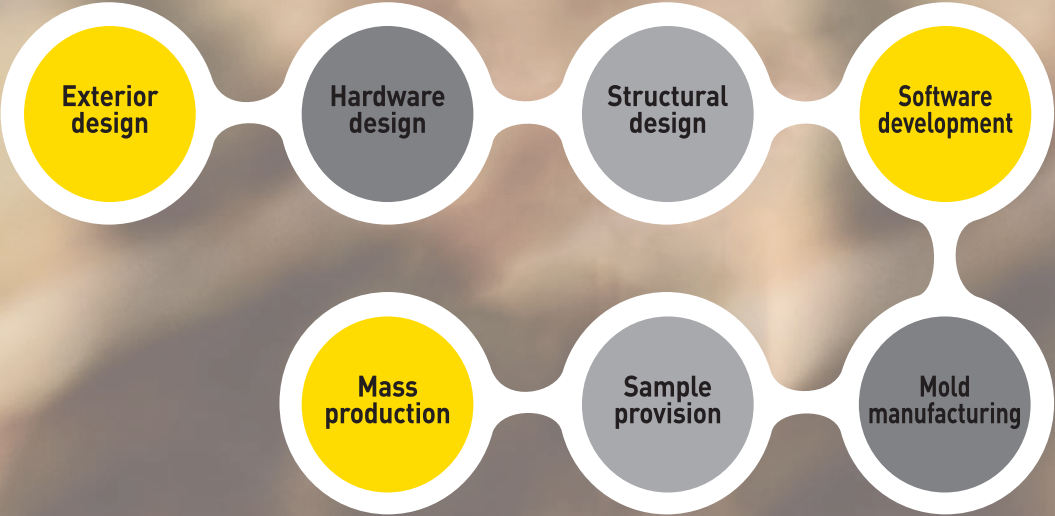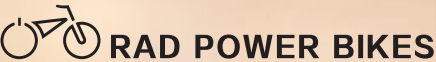
ODM CASE INTRODUCTION

0 km/h
71%

ROCKY MOUNTAIN

REMOTE FOR HMI

NEW

Our switches come with a compact appearance, simplistic design, reliable performance and ergonomic comfort. The rubber covered buttons are wear-resistant and provide a good grip in all situation.

DK156

Independent remote born for racing.

Outline Dimension	L 31.7mm W 22.5mm H 13mm
Buttons	1 Buttons
Certification	CE/RoHS
Specificity	Special for e-Road and e-Gravel
Mounting	Fixed on both side
Waterproof	IPX5

DK428

P+R P+R craft	**▣** Ultrasonic welding craft
⬛ Button with Pin in-mould craft	

Approval	RoHS
Size	L 33mm W 40.5mm H 42mm
Weight	30g
Waterproof	IPX5
Material	ABS
Wiring	6 Pins
Current	2mA
Operating Temperature	-20° ～ 70°
Wire Tension	50N

DK430

P+R P+R craft	**▣** Ultrasonic welding craft
⬛ Button with Pin in-mould craft	

Approval	RoHS
Size	L46mm W20mm H42mm
Weight	23g
Waterproof	IPX5
Material	PC+ABS
Handlebar for Holding	φ 22.2mm
Current	2mA
Operating Temperature	-20° ～ 70°
Wire Tension	≥50N

NEW

SW101

P+R P+R craft	⬛ Ultrasonic welding craft
⬛ Button with Pin in-mould craft	

Approval	RoHS
Size	L 60mm W 48mm H 26mm
Weight	20g
Waterproof	IP65
Material	PC+ABS
Handlebar for Holding	φ 22.2mm Handlebar
Durability	100,000 mating cycle
Operating Temperature	-20℃～ 60℃
Function	Power on/off,shifter(+/-),information shift

DK702

P+R P+R craft	⬛ Ultrasonic welding craft
⬛ Button with Pin in-mould craft	

Approval	RoHS
Size	L 60mm W 48mm H 26mm
Weight	20g
Waterproof	IP65
Material	PC+ABS
Handlebar for Holding	φ 22.2mm Handlebar
Durability	100,000 mating cycle
Operating Temperature	-20℃～ 60℃
Function	Power on/off,shifter(+/-),information shift

IoT INTELLIGENT SOLUTION

Intelligent solution

One-stop solution of "smart terminal + APP + cloud platform".

Collect EBIKE information (riding data, location, alarm status, etc).

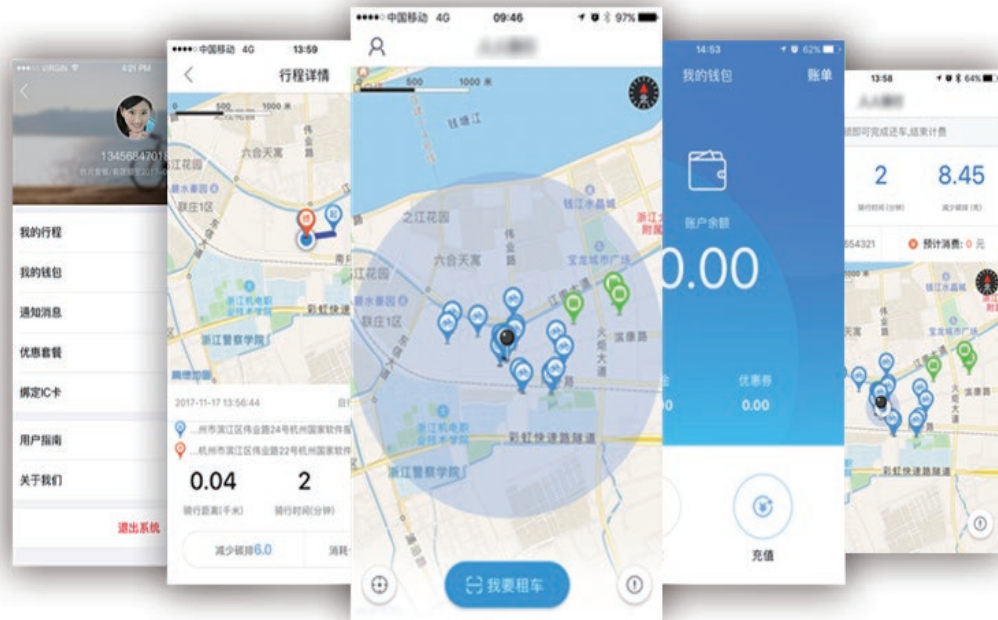Send it to the car owner APP and Yunzhixing management platform.

The intelligent vehicle can let the owner experience the Bluetooth sensor switch lock, one-button open

seat bucket.

Intelligent anti-theft, location tracking and other functions.

INTELLIGENT HARDWARE

Vehicle positioning
Supports GPS/Beidou positioning, obtaining real-time vehicle location.

Mobile control
Users can control the vehicle switch through their mobile phones, complete vehicle sharing online, and expand cycling social networks.

OTA upgrade
Supports battery voltage, current detection, and comes with 4G CAT1 network to support remote vehicle OTA upgrades.

Vehicle status monitoring
Supports vehicle status detection, cycling speed, battery status, charging status, cycling trajectory, and other information reporting to obtain real-time vehicle health status.

Remote control and intelligent warning
Supports remote control of the vehicle and intelligent warning.

MOBILE TERMINAL

One-key start
Users can control the vehicle switch through their mobile phones.

Vehicle positioning
Obtains real-time vehicle location through GPS/Beidou.

Status detection
Whole vehicle function detection to obtain information such as vehicle battery power, charging status, service life, etc.

Safety warning
Real-time detection of vehicle vibration warning, illegal movement, and other abnormal situations when in armed state, with data synchronizing in real-time to mobile phones.

Community sharing
Nearby stores, cycling information statistics, social sharing, business district culture.

CLOUD PLATFORM

User management
Registration of user information, authorization, and sharing management.

Vehicle management
User vehicle, cycling data, health information, location, and other data management.

User care
User care setting and management.

Community operation
Cycling community, forums, cooperative stores, advertising information promotion.

ZHEJIANG TOPOLOGY INTELLIGENT TECHNOLOGY CO., LTD.