CloudDrive

PRODUCTS CATALOG

SIMPLIFY THE COMPLEXITY

Headquarters
No.6 Yuxi Road, Pukou District, Nanjing
Jiangsu China 211800

Branch Office in Europe
Via Franchini 5,4013,Castel Maggiore(Bo) Italy

Branch Office in Taiwan
10th Floor, No.5 Lane 319, Tianxiang
Road, Zhanghua City

Contact Info

@ Jim@clouddrive.tech

🌐 www.clouddrive.tech

CloudDrive

Screen Size	LCD	TFT	LED
1.47 "	CDC20PRO	CDC20PRO–C CDC36	
2.0 "	CDC1L CDC1R CDC1L–B CDC1R–B	CDC57	
2.4 "	CDC11–B CDC29 CDC29–T CDC29–U	CDC11PRO	CDE8 CDE8–PRO CDE10 CDE10–G
3.5 "	CDC6 CDC6–PRO CDC6–PRO2	CDC27 CDC27–PRO CDC60 CDC60–X	

CD CloudDrive

2026
Achieve localization manufacturing in Europe

2024
New branch offices in Hongkong and France, provide local supply chains and service support

2022
1st generation IoT modular (CDiBOX1) and matched SaaS management system arrival

2020
SGS EN13849 certificate approval in China
2nd time overseas assembly: Mass manufacturing of CDC11 displays in Italy

2019
Company relocation: Move to Nanjing and build manufacturing base
1st time overseas assembly: Mass manufacturing of CDD4 controllers in South Korea
ISO9001 certificate approval in China for manufacturing base
CE, EN13849, EN15194 certificates approval in Europe
5000000 PAS sensors supply for Shared eBike project

2018
1st European branch office founded in Bologna, Italy
CDC13 display and CDBM2 battery manager are designed by Italian team

2017
Professional diagnostic tool for electrical property testing arrival: CD-Diagnostic_1
Product iteration forward to modular design and bring with PRO series displays

2016
1st generation controller arrival: CDD4(modular design)
1st electronic control system: Controller+Display+PAS sensor
1st generation eBike APP development: completed but market demand is not active

2015
CloudDrive R&D Center established in Shanghai

ABOUT US

Cloud Drive Intelligent Technology Co., Ltd was established in Shanghai in 2015, and then built an R&D Center and Manufacturing Base in Nanjing in 2019. Cloud Drive is a high-tech enterprise that integrates the R&D, design, and production of intelligent electronic control systems and products for two-wheeled vehicles, such as electric bicycles and electric scooters. Our self-developed and manufactured products range covers displays, controllers, sensors, IOT, APP, diagnostic tools, cloud server and special accessories, which can work well with most global branded motors. We provide the best-matched products and full technical services for e-bike manufacturers, brand owners, and design companies

Driven by the cloud's data and the interconnection of things, we have been committed to promoting the intelligent and concise development of the e-bike industry over the years. Our product research and development has always focused on three core areas: easy-assembly for e-bike manufacturers, diversified-selection for brand owners, and safer rides for consumers. After taking the lead in launching the world's first modular-designed controller in 2016, we continued to complete the modular design iteration of our PRO series displays and upgraded our complete electronic control kits. Empowering and serving the global e-bike industry is our mission. We will work harder to contribute new solutions to global green energy and a sustainable future

30+
R&D STAFFS

80+
PATENTS

200+
CLIENTS

300Mil.+
SALES QTY

[SCAN FOR VIDEO]

WHY CHOOSE US

Optimize Wiring

Only one 6-pins cable from controller to display, the front light, throttle and brake signal can connect to display directly, optimize the whole vehicle wiring and make the eBike appearance more neat

Multi-function Expansion

Our controller has integrated the lights module, blue tooth module and brake signals, compatible with cadence&torque sensor, if work with our PRO series displays, it can realize rapid replacement and upgrade of functional components
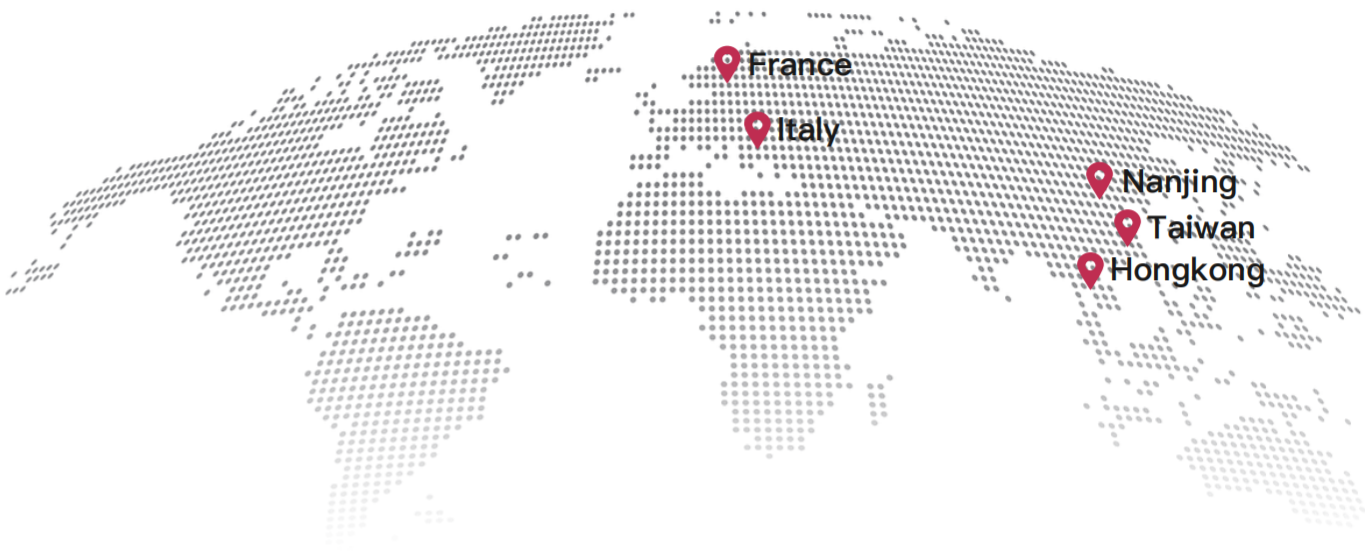
Modular Design

Standardize the connectors of controller and display, make the controller body and waterproof cable separated production, to shorten purchase cycle, enable the transportation and storage management easier
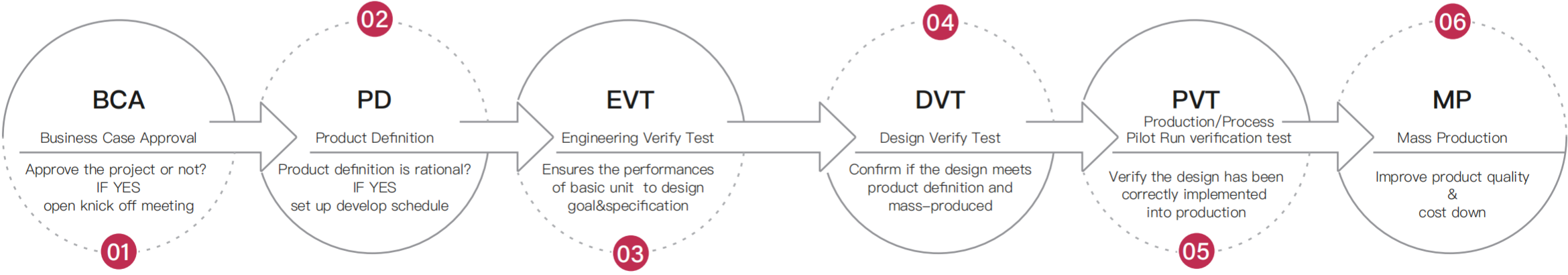
Localized Supply&Service

There are finished products and technical support team in European branch offices, easy to provide the localized supply chain and on-site technical support
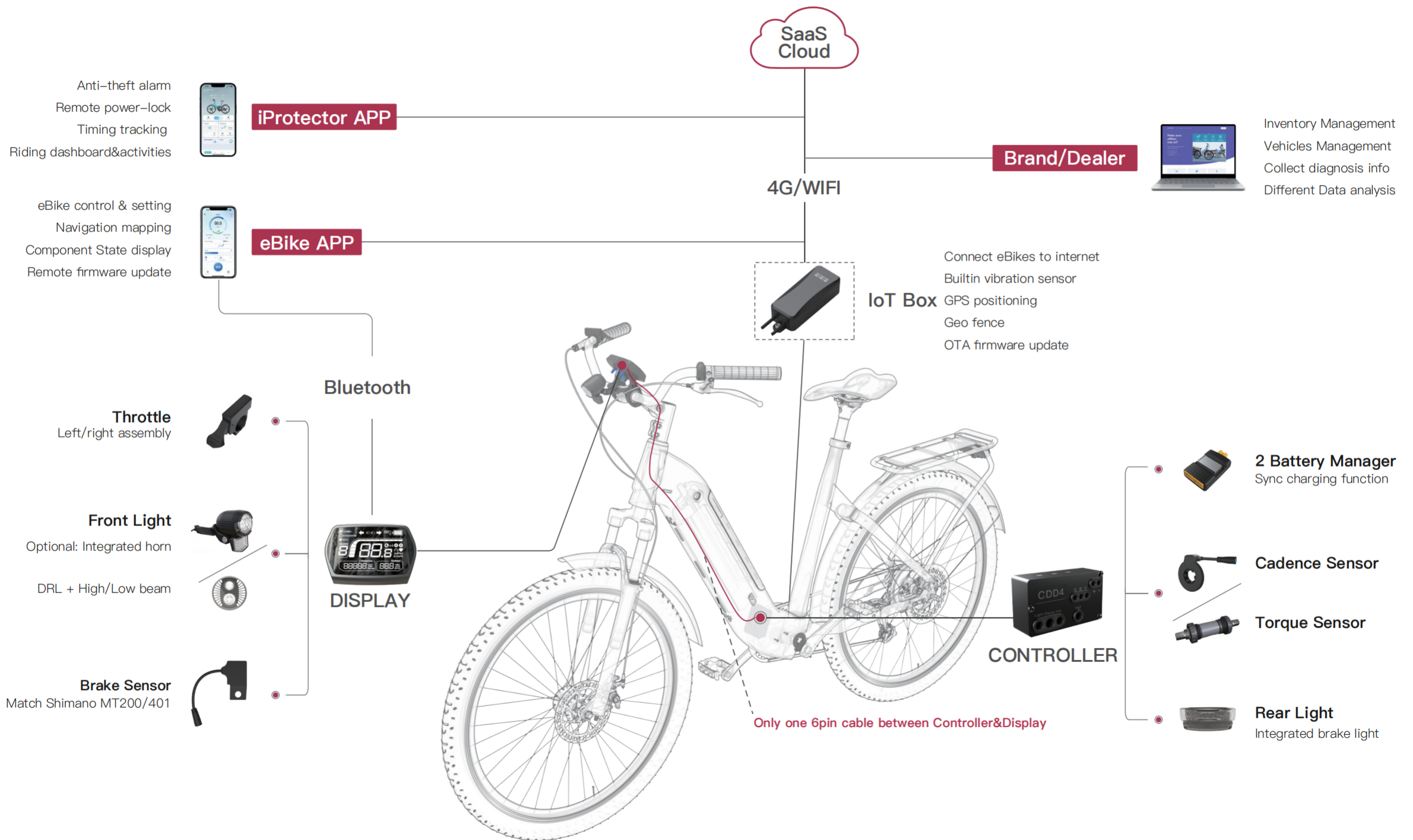
SERVICE NETWORK

France
Italy
Nanjing
Taiwan
Hongkong

NPI (New Project Implement)

BCA
Business Case Approval

Approve the project or not?
IF YES
open knick off meeting

01

PD
Product Definition

Product definition is rational?
IF YES
set up develop schedule

02

EVT
Engineering Verify Test

Ensures the performances of basic unit to design goal&specification

03

DVT
Design Verify Test

Confirm if the design meets product definition and mass-produced

04

PVT
Production/Process Pilot Run verification test

Verify the design has been correctly implemented into production

05

MP
Mass Production

Improve product quality & cost down

06

INTELLIGENT ECOSYSTEM FOR EBIKE

CloudDrive

SaaS Cloud

Anti-theft alarm
Remote power-lock
Timing tracking
Riding dashboard&activities

iProtector APP

Brand/Dealer

Inventory Management
Vehicles Management
Collect diagnosis info
Different Data analysis

4G/WIFI

eBike control & setting
Navigation mapping
Component State display
Remote firmware update

eBike APP

Connect eBikes to internet
Builtin vibration sensor
IoT Box GPS positioning
Geo fence
OTA firmware update

Bluetooth

Throttle
Left/right assembly

Front Light
Optional: Integrated horn
DRL + High/Low beam

DISPLAY

2 Battery Manager
Sync charging function

Cadence Sensor

CONTROLLER

CDD4

Torque Sensor

Brake Sensor
Match Shimano MT200/401

Only one 6pin cable between Controller&Display

Rear Light
Integrated brake light

CDC60 FAMILY

Empower
and serve
for global ebike industry

Model	CDC60	CDC60-X (IoT inside)
Screen	3.5'' TFT	
Voltage	24V/36V/48V/52V(Compatible) , 60V/72V(Compatible)	
Handlebar	Φ22.2/Φ25.4/Φ31.8mm	
Communicate	UART/CAN	CAN
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

Note:
1.End user or eBike retail store can replace or upgrade these optional functional components by themselves: Brake sensor, Throttle, Front light.
2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean
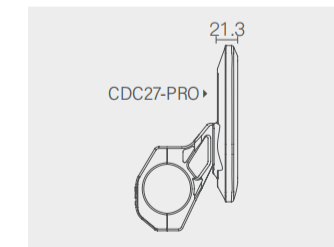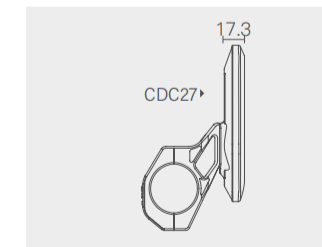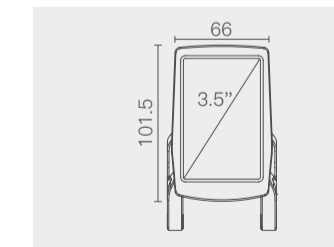
Basic Functions

PAS Level: 0-3/0-5/0-9 options, Digital PAS level indication

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, USB charging port, Auto-OFF, Password On/Off, Day-time/Night mode (Auto light sensing), Unit switching(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight(Brightness adjustable), Auto error codes

Optional Functions

- CD Booting LOGO
- Multi-language
- NFC
- GPS
- 4G 4G
- Front/Rear drving selection
- Direction Flasher
- Cruise control
- Bluetooth communication
- PAS signal selection(Cadence/Torque)

12.8

65.9

95.54   3.5''

IoT PCBA

IoT Battery

CD-DBracket1

CD-DBracket1

CDL-Shiny40
(Integrated horn function in front light is optional)

Anti-falling design make the screws mounting easier

CDC27 FAMILY

CDC27

CDC27-PRO

controller   remote

controller   remote

● Connect: DRL+High/Low beam (Max. 10W*3)
● Connect: Brake, Throttle, Front light (Max. 10W)
(Each connector is available for these three components)
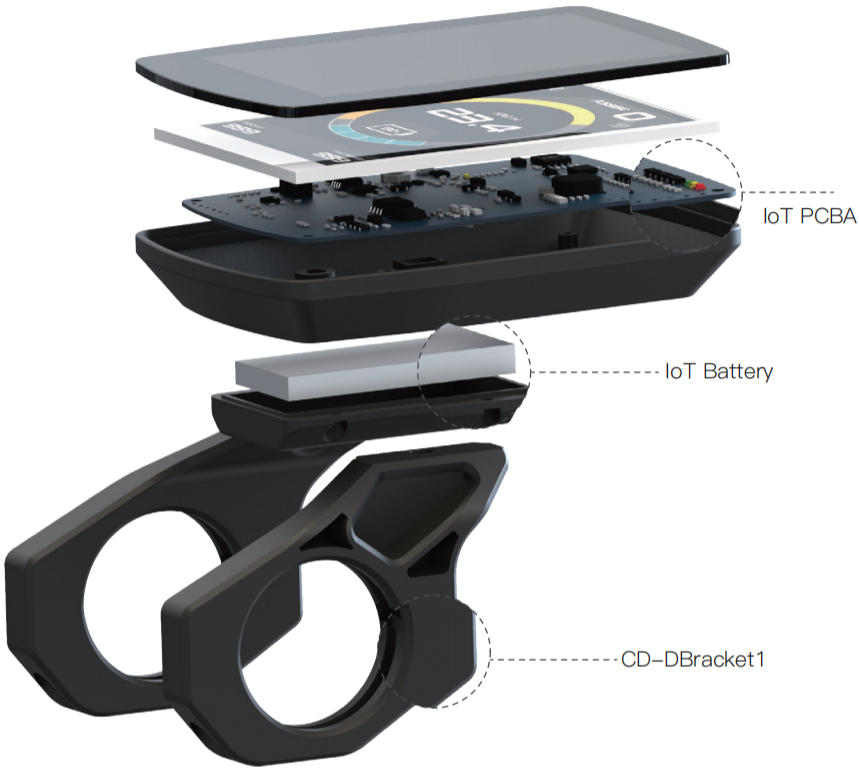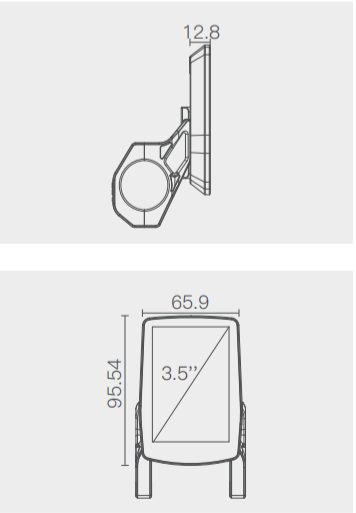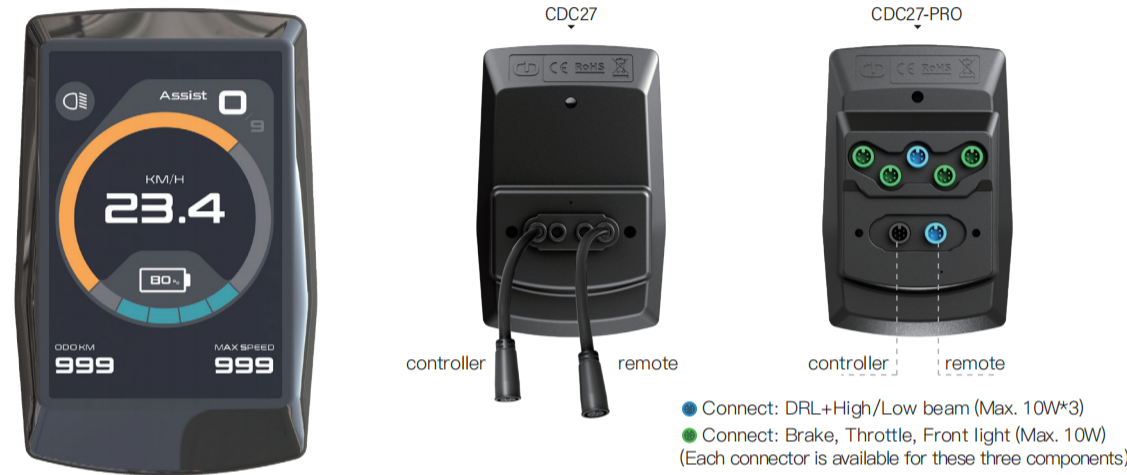
Model	CDC27	CDC27-PRO
Screen	3.5'' TFT	
Voltage	24V/36V/48V/52V(Compatible) , 60V/72V(Compatible)	
Handlebar	Φ22.2/Φ25.4/Φ31.8mm	
Communicate	UART/CAN	
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

Note:
1.End user or eBike retail store can replace or upgrade these optional functional components by themselves: Brake sensor, Throttle, Front light.
2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean
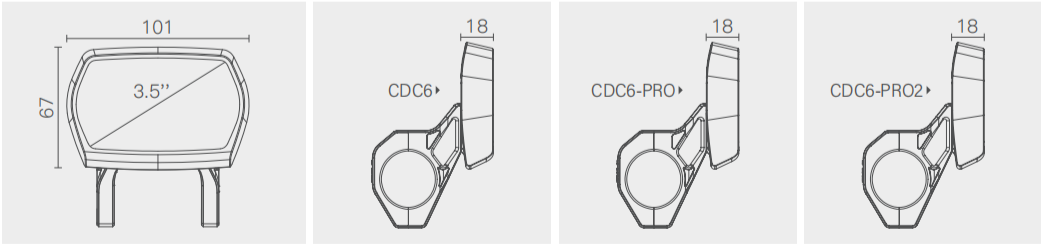
Basic Functions

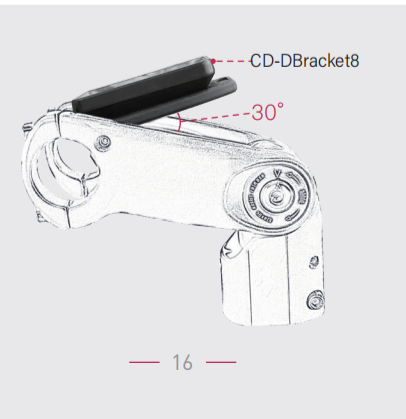**PAS Level**: 0-3/0-5/0-9 options, Digital PAS level indication

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, USB charging port, Auto-OFF, Password On/Off, Day-time/Night mode (Auto light sensing), Unit switching(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight(Brightness adjustable), Auto error codes

Optional Functions

⊂Ꭰ Booting LOGO

⬌ Direction Flasher

❋ Bluetooth communication

⊕ Multi-language

⟳ Cruise control

PAS signal selection(Cadence/Torque)

Front/Rear drving selection

66

101.5   3.5''

17.3
CDC27▸

21.3
CDC27-PRO▸

CDC6 FAMILY

CDC6

controller   remote

CDC6-PRO   CDC6-PRO2

controller remote   controller remote

● Connect: Brake, Throttle, Front light (Max. 10W*3)
  (Each connector is available for these three components)

● Connect: DRL+High/Low beam (Max. 10W)

Model	CDC6	CDC6-PRO	CDC6-PRO2
Screen	3.5'' LCD (Clearer under brighter light)		
Voltage	24V/36V/48V/52V (Compatible), 60V/72V (Compatible)		
Handlebar	Φ22.2/Φ25.4/Φ31.8mm		
Communicate	UART/CAN		
Waterproof	IP67		
Certificate	CE/ROHS/EN13849		

Note:
1.End user or eBike retail store can replace or upgrade these optional functional components by themselves: Brake sensor, Throttle, Front light.
2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean

Basic Functions

PAS Level: 0-3/0-5/0-9 options, Dual PAS level indication(Digital levels, riding mode)

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, USB charging port, Auto-OFF, Password On/Off, Unit switching(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight, Auto error codes

Optional Functions

⌖ Cruise control

✳ Bluetooth communication

↔ Direction Flasher

High/Low beam

PAS signal selection(Cadence/Torque)

CD Booting LOGO

Front/Rear drving selection

101   18   18   18

67   3.5''   CDC6   CDC6-PRO   CDC6-PRO2

CD-DBracket1

CDL-Shiny40
(Integrated horn function in front light is optional)

CD-LB1

Anti-falling design make the screws mounting easier

CDL-Shiny40
(Integrated horn function
in front light is optional)

CD-DBracket3

CD-LB1

Anti-falling design make
the screws mounting easier

CD-DBracket5

CD-DBracket3

CD-DBracket7

CD-DBracket8

-30°

CD-DBracket2

STEM-XL1

CDC11 FAMILY

CDC11PRO

CDC11-B

controller   remote

● Connect: Brake, Throttle, Front light (Max. 10W)
(Each connector is available for these three components)

Model	CDC11PRO	CDC11-B
Screen	2.4'' TFT	2.4'' LCD
Voltage	24V/36V/48V/52V (Compatible), 60V/72V (Compatible)	
Handlebar	Φ22.2mm/Φ25.4mm/Φ31.8mm	
Communicate	UART/CAN	UART
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

Note:
1.End user or eBike retail store can replace or upgrade these optional functional components by themselves: Brake sensor, Throttle, Front light
2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean
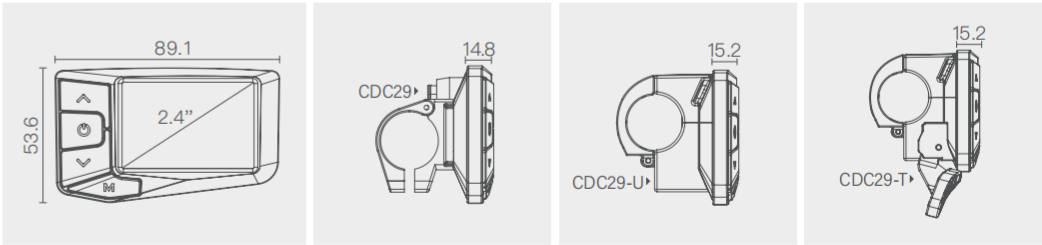
Basic Functions

**PAS Level**: 0-3/0-5/0-9 options, Digital PAS level indication, Riding mode indication(Only for CDC11-B)

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, USB charging port(**only available for CDC11PRO**), Auto-OFF, Password On/Off, Unit switching(Km/Mile), Lights On/Off, Screen backlight(Brightness adjustable), Auto error codes
Daytime/Night mode (Auto light sensing),① Battery SOC(%) ①

Optional Functions

CD Booting LOGO ①

Direction Flasher①

Blue tooth communication①

Multi-language①

Cruise control

PAS signal selection(Cadence/Torque)

NFC ①

Front/Rear drving selection

Note :The functions marked with① are only available for CDC11PRO, other functions are available for both models

49

18.9

18.9

70   2.4''

CDC11PRO▶

CDC11-B▶

CDC29 FAMILY
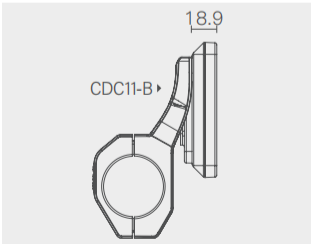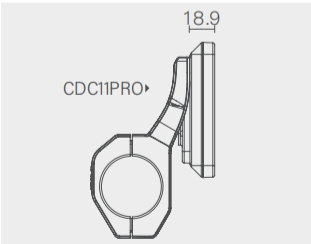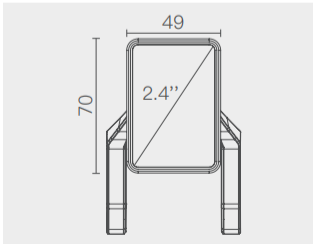
CDC29-T

CDC29

CDC29-U

Model	CDC29	CDC29-U	CDC29-T
Feature	Standard	USB	USB+Throttle
Screen	2.4'' LCD (Clearer under brighter light)		
Voltage	24V/36V/48V/52V (Compatible), 60V/72V (Compatible)		
Handlebar	Φ22.2mm		
Communicate	UART/CAN		
Waterproof	IP67		
Certificate	CE/ROHS/EN13849		

Note:

1.Integrated buttons and optional throttle, save mounting space and make the handlebar clearer

2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean

Note: Designed by Italy Team

Basic Functions

PAS Level: 0-3/0-5/0-9 options, Dual PAS level indication(Digital levels, riding mode)

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, Auto-OFF, Password On/Off, Unit switching(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight, Auto error codes

Optional Functions

🔌 USB charging port   ❖ Bluetooth communication

CDC57

Model	CDC57
Feature	USB
Screen	2'' TFT
Voltage	24V/36V/48V/52V (Compatible), 60V/72V (Compatible)
Handlebar	Φ22.2mm
Communicate	UART/CAN
Waterproof	IP67
Certificate	CE/ROHS/EN13849

Basic Functions

PAS Level: 0–3/0–5/0–9 options, Dual PAS level indication(Digital levels, riding mode

Riding Data: Real–time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, Auto–OFF, Password On/Off, Unit switch–ing(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight, Auto error codes

Optional Functions

- NFC
- USB charging port
- Direction Flasher
- Bluetooth communication
- Front/Rear drving selection

54.24
62.94
2"

62.31
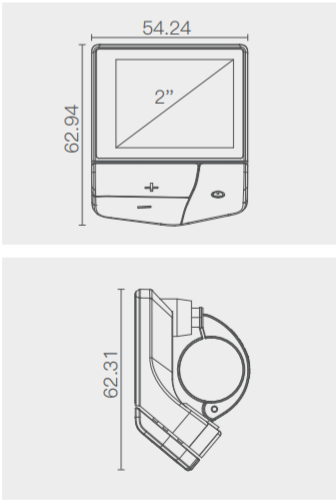
Note:
1.Integrated buttons , save mounting space and make the handlebar clearer
2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with differ–ent–lengths bridge cables, it will decrease your inventory and make the assembly line more lean
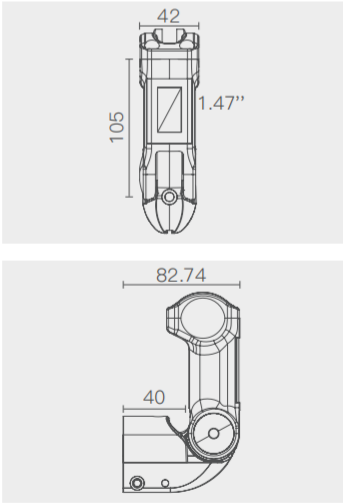
CDC1 FAMILY

CDC1L

Basic Functions

PAS Level: 0–3/0–5/0–9 options, Digital PAS level indication

Riding Data: Real–time speed, Trip&ODO distance

Others: Power on system, 6Km/h walk mode, Auto–OFF, Unit switching(Km/Mile), Lights On/Off, Screen backlight, Auto error codes

CDC1L-B

CDC1R-B

CDC1R

Model	CDC1L/CDC1R	CDC1L–B/CDC1R–B
Feature	With Throttle	Without Throttle
Screen	2.0'' LCD	
Voltage	24V/36V/48V/52V(Compatible) , 60V/72V(Compatible)	
Handlebar	Φ22.2mm	
Communicate	UART / CAN	
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

Optional Functions

🔋 Battery SOC(%)
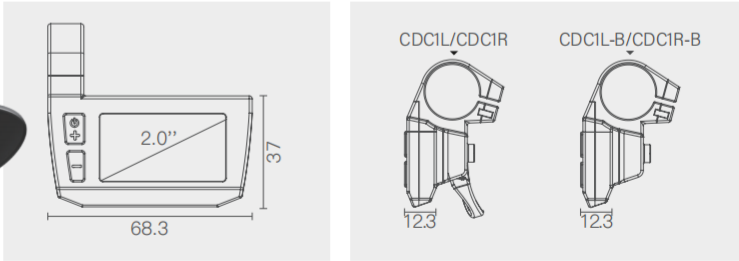
CDC1L/CDC1R   CDC1L-B/CDC1R-B

Note:

1.Integrated buttons and optional throttle, save mounting space and make the handlebar clearer

2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different–lengths bridge cables, it will decrease your inventory and make the assembly line more lean

CDC36

Hidden wiring

CDC36

optional interface

Model	CDC36
Screen	1.47'' TFT
Voltage	24V/36V/48V/52V (Compatible) , 60V/72V (Compatible)
Handlebar	Φ31.8mm
Communicate	UART / CAN
Waterproof	IP67
Certificate	CE/ROHS/EN13849

Basic Functions

PAS Level: 0–3/0–5/0–9 options, Digital PAS level indication

Riding Data: Real–time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, Auto–OFF, Password On/Off, Unit switching(Km/Mile), Lights On/Off, Battery SOC(%), Screen backlight(Brightness adjustable), Auto error codes

Optional Functions

- Booting LOGO
- Multi–language
- Cruise control
- Direction Flasher
- Bluetooth communication
- PAS signal selection(Cadence/Torque)

42
105
1.47''

82.74
40

Note:

1.Embedded type design with angle –adjustable stem. In–tube wiring to save mounting space and make the handlebar clearer

Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different–lengths bridge cables, it will decrease your inventory and make the assembly line more thin

CDC20PRO FAMILY

CDC20PRO

CDC20PRO-C

Model	CDC20PRO	CDC20PRO-C
Screen	1.47'' LCD	1.47'' TFT
Voltage	24V/36V/48V/52V (Compatible) , 60V/72V (Compatible)	
Handlebar	Φ22.2mm	
Communicate	UART	UART / CAN
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

Basic Functions

PAS Level: 0-3/0-5/0-9 options, Digital PAS level indication

Riding Data: Real-time speed&power; Average&Maximum speed; Trip&ODO distance

Others: Power on system, 6Km/h walk mode, Auto-OFF, Password On/Off Day-time/Night mode, Unit switching(Km/Mile), Lights On/Off Battery SOC(%), Screen backlight(Brightness adjustable), Auto error codes

Optional Functions
(only for CDC20PRO-C)

CD Booting LOGO

🌐 Multi-language

⏱ Cruise control

PAS signal selection(Cadence/Torque)

Bluetooth communication
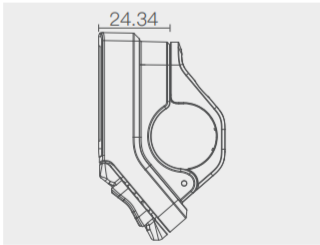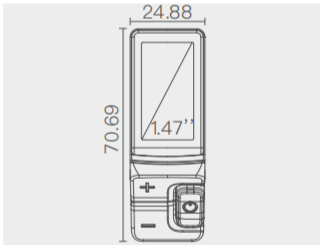
24.88
70.69
1.47''

24.34

Note:

1.Integrated buttons and optional throttle, save mounting space and make the handlebar clearer

2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different-lengths bridge cables, it will decrease your inventory and make the assembly line more lean

CDE8 FAMILY

Model	CDE8	CDE8–PRO
Connetors	1	2
Display	LED	
Voltage	24V/36V/48V/52V (Compatible) , 60V/72V (Compatible)	
Handlebar	Φ22.2mm/Φ31.8mm	
Communicate	UART/CAN	
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

controller
CDCE8

Basic Functions

Power on system, PAS level indication(Level1–5), 6Km/h walk mode,

Lights On/Off, Battery SOC, Auto–OFF, Auto error codes

controller
throttle/
light(10W)

CDCE8-PRO

Optional Functions (only for CDE8–PRO)

Ⓟ Connect to optional throttle or front light

24.2

60

18.4

Note:

1.Integrated buttons and optional throttle, save mounting space and make the handlebar clearer

2.Modular design with integrated connectors, that allows the same display to be installed on different eBikes with different–lengths bridge cables, it will decrease your inventory and make the assembly line more lean

CDE10

CDE10

CDBase1

CDBase2

34.17
50.17
M2 threaded hole
6.5
41.1

35.17
51.17
M2 threaded hole
8
48.77

Forged 6061,easy for brazing
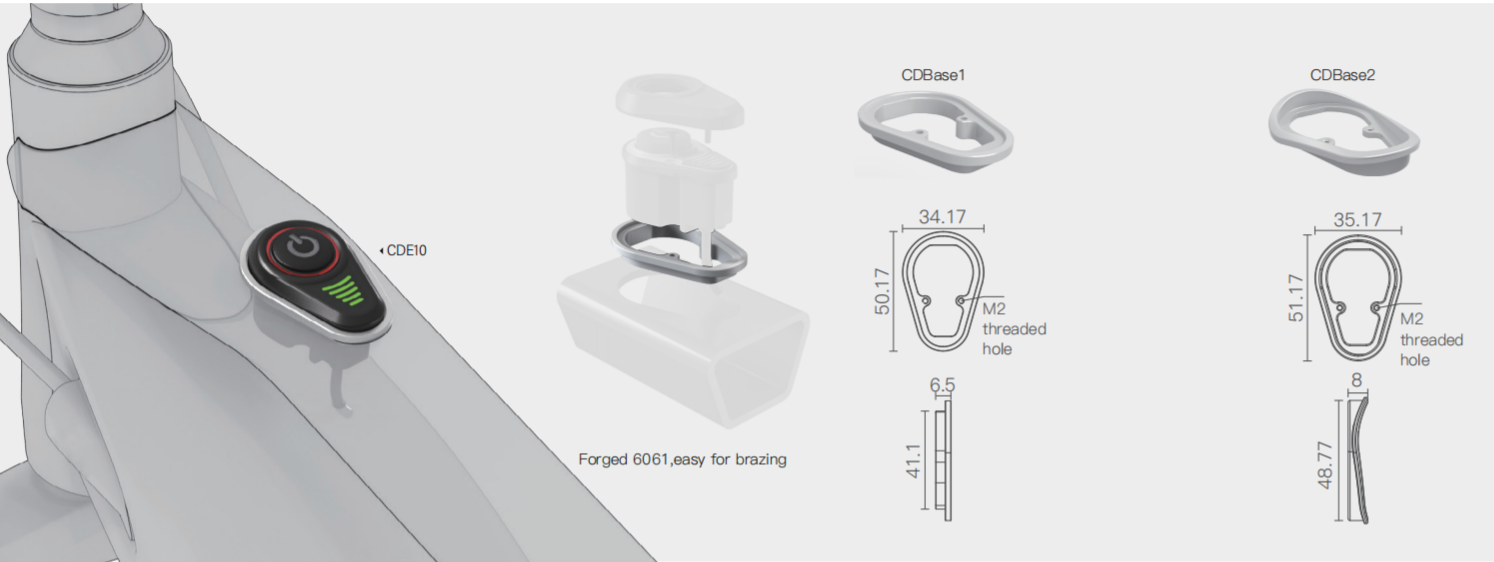
Model	CDE10	CDE10–G
Display	RGB+LED	
Voltage	24V/36V/48V/52V(Compatible) , 60V/72V(Compatible)	
Communicate	UART / CAN	
Waterproof	IP67	
Certificate	CE/ROHS/EN13849	

DESIGN IN ITALY

Designed by Italy Team

Basic Functions

One key power–on: Built–in power button to power on/off the whole system;

PAS level: 3 color RGB indicate level 0 to level 3;

SOC: 5 LED lamp indicate the battery volume

Auto error codes: Indicate error codes by different LED lamp blinking

Auto–off: Auto off if no operation within 10minutes

Easy mounting: Applicable for quick installation in top tube or stem

CDE10-G

Made in Taiwan

Optional Functions

Bluetooth communication

Remote（CDButton8）

29.8
45.8

27
37.5
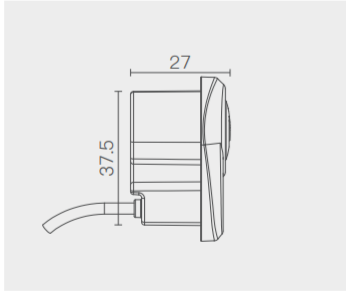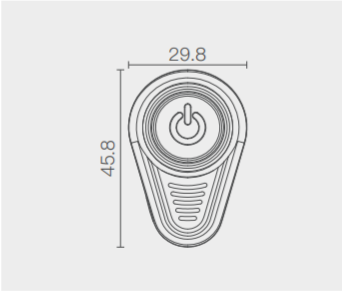
Note:

1.Embedded type design and built–in top tube, in–tube wiring to save mounting space and make the handlebar clearer

REMOTES
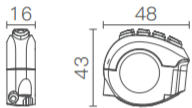
Model	CDButton2	CDButton2-B
USB Charging	Available	Unavailable
Keys	⊕ ⊖ Ⓜ ⏻	
Application	eCity, eMTB, eFat, eCargo, eScooter	
Position	Handlebar (Ø22.2mm)	
Mounting	By screws	
Certificate	ROHS / IP67	

16 · 48 · 43

Model	CDButton8
Keys	⊕ ⊖
	Two keys can be used alone or together
Application	eRoad, eGravel
Position	Handlebar
Mounting	Embedded in the grip tape by metal ring
Certificate	ROHS / IP67

22.3 · 8.9 · 26

Model	CDButton15	CDButton16
Type-C	Available	Available
Keys	⏻ ⊕ ⊖ ◈ ⒷⒹ ☾	⏻ ⊕ ⊖ ◈ ⒷⒹ ☾ ⟨ ⟩
Application	eCity, eMTB, eFat, eCargo, eScooter	
Position	Handlebar (Ø22.2mm)	
Mounting	By screws	
Certificate	ROHS / IP67	

CDButton15   CDButton16

20 · 40.7 · 59.88   36.16 · 42.71 · 69.8

CDButton2 FAMILY

CDButton8

CDButton15

CDButton16
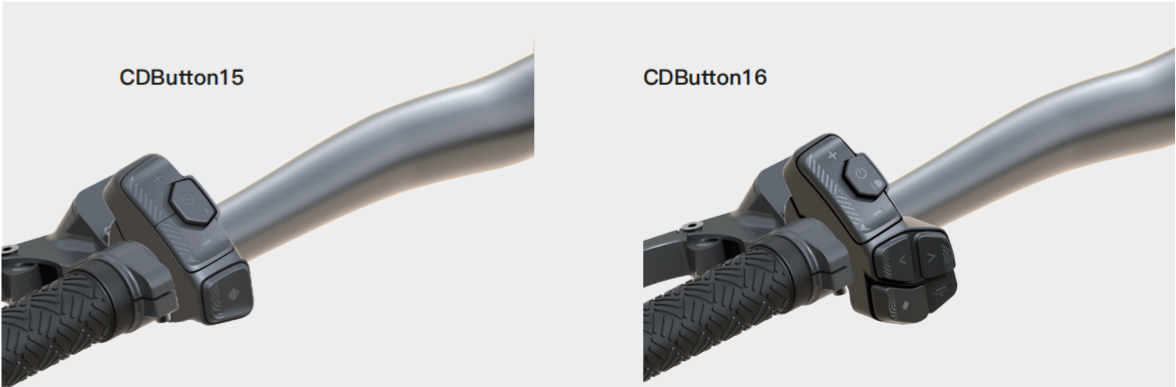
CDD4

Voltage	36V/48V
Communicate	UART/CAN
Current Limit	15A
Waterproof	IP54
Certificate	CE/ROHS/EN13849
Control Type	FOC sine wave
Assembly Size	38*51*87mm (Minimum)
Application	250W/350W

86   30.5   50

Modular Structure

Standardize the connectors of controller and display, make the controller body and waterproof cable separated production, to shorten the purchase cycle, enable the transportation and storage management easier

Multi-function Expansion

Our controller has integrated the lights module, electronic brake signals and electronic throttle etc, compatible with cadence and torque sensor, if combined with our PRO series displays, it can realize rapid replacement and upgrade of functional components

Built-in waterproof connectors

360° cable outgoing

Compact&Smart Electronic Control System
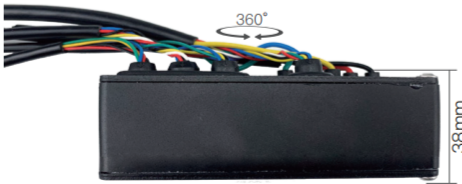
Easy Assembly

Small size suitable for most of eBike frame, plug-in design for fast connection, 360° free direction for cable outgoing and keep cables close to the frame

Reliable Quality

90% SMT, 10% Ultrasonic Soldering, adopts waterproof built-in connector structure. Automatic production process is very suitable for mass production
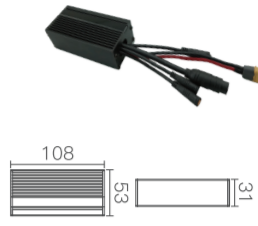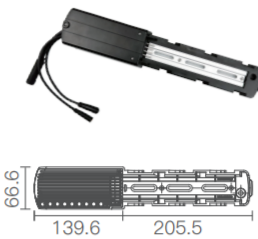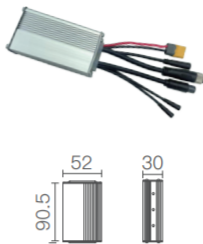
Localized Supply&Service

There are finished products and technical support team in European branch offices, easy to provide the localized supply chain and on-site technical support

CONTROLLER
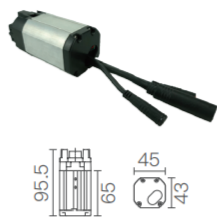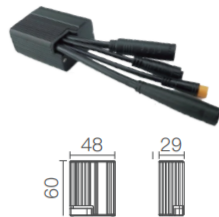
Model	CDD11	CDD11-FY	CDD6	CDD18	CDD16	CDD12
Applicable Motor	250W	250W	250W/350W	250W/350W	350W/500W	500W/750W
Max. Current Limit	13A	13A	15A	18A	22A	25A
Voltage	36V/48V	36V/48V	36V/48V	36V/48V	36V/48V	36V/48V
Communicate	UART / CAN	UART / CAN	UART	UART / CAN	UART	UART / CAN
Waterproof	P65			IP65		
Certificate	CE/ROHS/EN13849			CE/ROHS/EN13849		
Working Temp	−25℃ ~ +60℃			−25℃ ~ +60℃		
Car lighting System	Front/Rear light, Brake light (36V/48V)			Front/Rear light Brake light (36V/48V)	Front/Rear light Brake light (36V/48V)	Front/Rear light Brake light (36V/48V)
Turn signal System	–			Front/Rear light Brake light,Turning light (12V)	–	Front/Rear light Brake light,Turning light (12V)
PAS Sensor	Cadence / Torque			Cadence / Torque		
Application	eCity, eFolding, eRoad, eGravel			eTrekking, eMTB, eCargo, eFat		
Position	Inside tube	Inside tube	Outside tube	Inside tube	Outside tube	Inside tube
Net Weight	150 g	147 g	348 g	365 g	445 g	435 g
Dimension	60*48*29 mm	95.5*45*43 mm	325.5*86*86 mm	90.5*52*30 mm	345.1*66.6*25.2 mm	108*53*31 mm

CDBMS1

Specification: A14M011–5–14H

Current: 3–22A

Size: 52*35*13mm
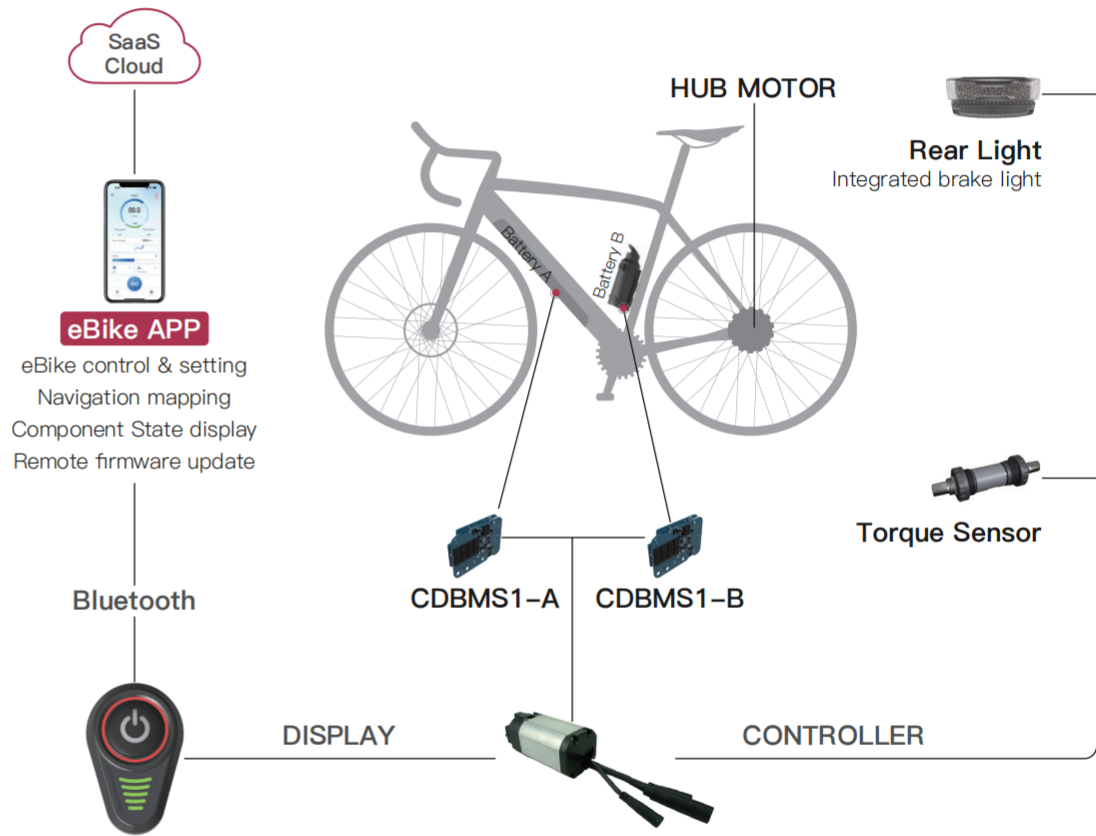
Communication: CANBUS

Voltage: 36V
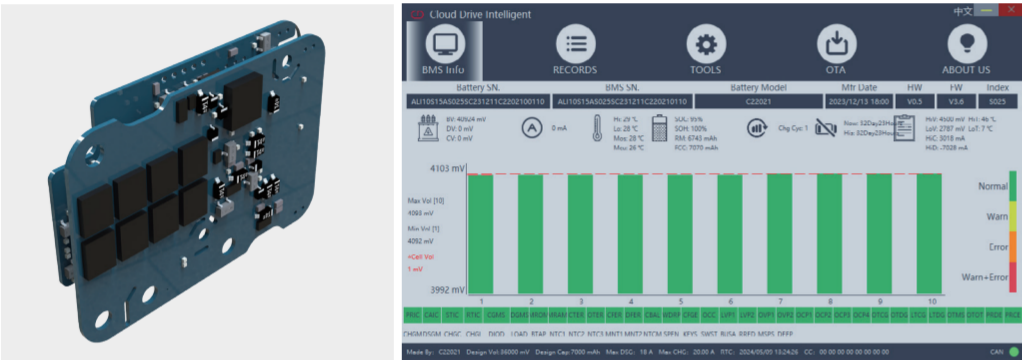
Features

1、Voltage Protection, Current Protection, Temperature Protection

2、Deep Sleep Function (In Order To Prevent Battery Over Discharge Failure)

3、Automatic Power Off (Automatically Disconnect Output While No Communication)

4、Balance Function (Passive Balance)

5、Parameter Configuration Function And Cell Information View (Host Computer)

6、Parallel Use Function (Support Simultaneous Discharge Of Dual Batteries)

7、One–button Start (Key Signal To Wake Up The Battery Output)

8、Charging Signal (Support The Discharge Port To Charge By Parallel Battery)

9、Power Indication (Rgb Power Indication)

10、Data Recording Function (Battery Usage Status, Number Of Cycles, Charge And discharge, Temperature, Abnormal Data, Etc.)

Customizable synchronous charging function of two batteries
Note: Battery shall support synchronous charging and discharging, and the charging current shall be 1–3A.

CDBMS1 TYPICAL APPLICATION

In this application, there are two batteries connected via BMS(Battery Management System). Blue tooth communication help to display the necessary infomation of the whole system. Double battery design not only provide a long riding distance, but also help to extend the battery life
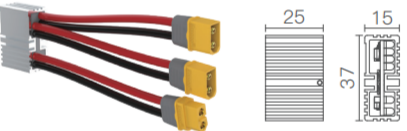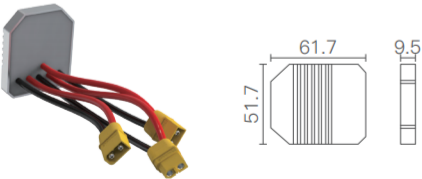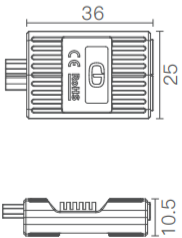
DUAL BATTERY MANAGER

CDBM1

32		
30		
64		

Input Voltage	15–60V
Rated Current	3–30A
Power Consumption	3.5mA
Waterproof	IP65

CDBM3

| 25 | 15 | |
| 37 | | |

Input Voltage	15–60V
Rated Current	3–25A
Power Consumption	3.5mA
Waterproof	IP65

CDBM7

| 61.7 | 9.5 | |
| 51.7 | | |

Input Voltage	15–60V
Rated Current	3–50A
Power Consumption	3.5ma
Waterproof	IP65

8 MOSFET

Note: Designed by Italy Team

CDBM2

Input Voltage	15–60V	Power Consumption	3.5ma
Rated Current	3–18A	Waterproof	IP65

While connect two groups of battery by CDBM products, the batteries will be isolated and they won't be short circuit.

Synchronous discharging will help to decrease the current using intensity of each battery, extend the battery using life, It can maximize the use of all the electric energy of the battery and get a longer cycling distance, achieve the purpose that (1+1) battery more than 2 batteries.

36		
25		
10.5		

Customizable synchronous charging function of two batteries
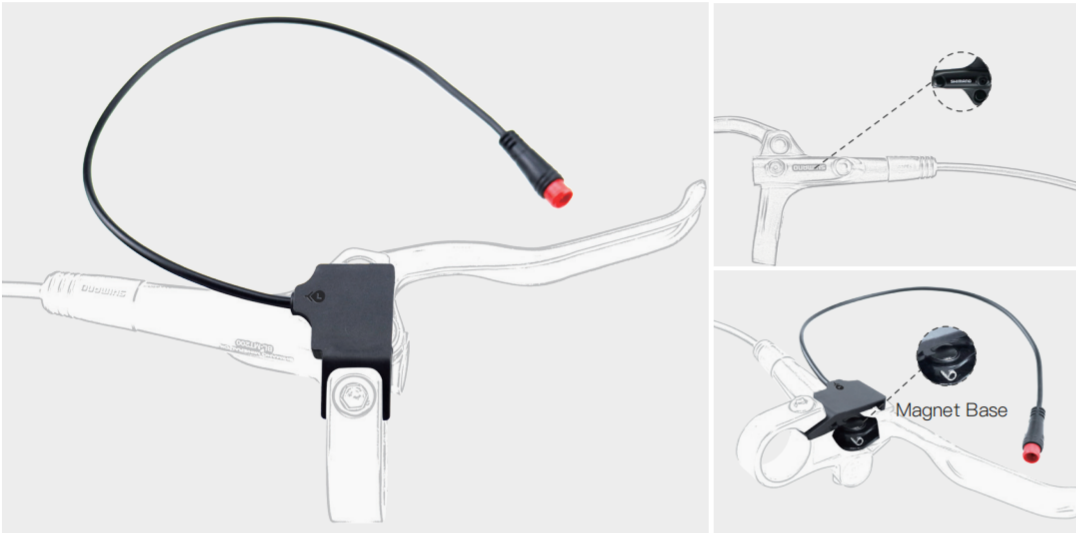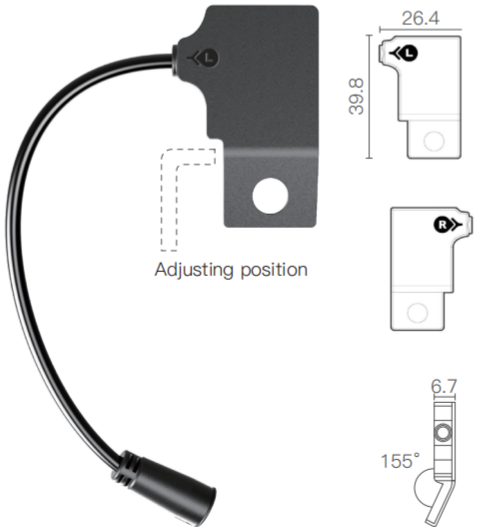Note: Battery shall support synchronous charging and discharging, and the charging current shall be 1–3A.

SENSORS

Magnet Base

CDPAS-Q24GL   CDPAS-C24GR

Standard   Side cable out

4

3.5

2.4

## CADENCE SENSOR
CDPAS-Q24GL/CDPAS-C24GR

Integrated design, 3.5mm ultra-thin type, Provide 24 signals, support left or right assembly, No change of the axis length, hidden outlet cable, Rapid replacing the plastic inner core
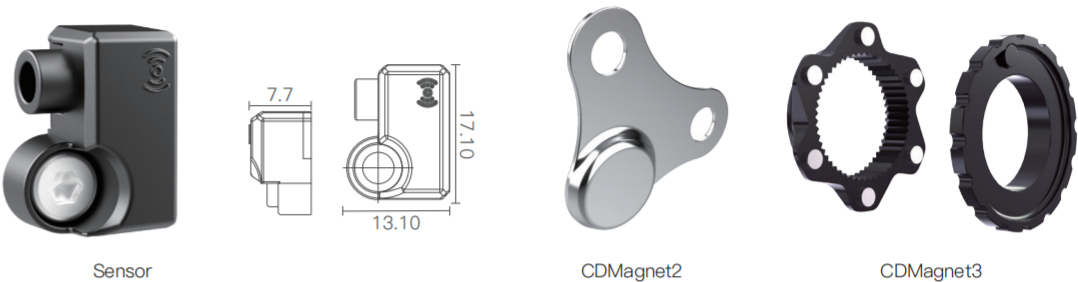
Waterproof rating: IP67

CUT OFF BRAKE SENSOR
CDHBL-K

Macthing **SHIMANO** MT200/MT201/MT401

Adding motor power off brake sensor make cycling safer

Easy assembly and no change with the original brake structure

Braking signal sensitivity is adjustable by user

Waterproof rating: IP67

There are two versions for left/right assembly

26.4

39.8

Adjusting position

6.7

155°
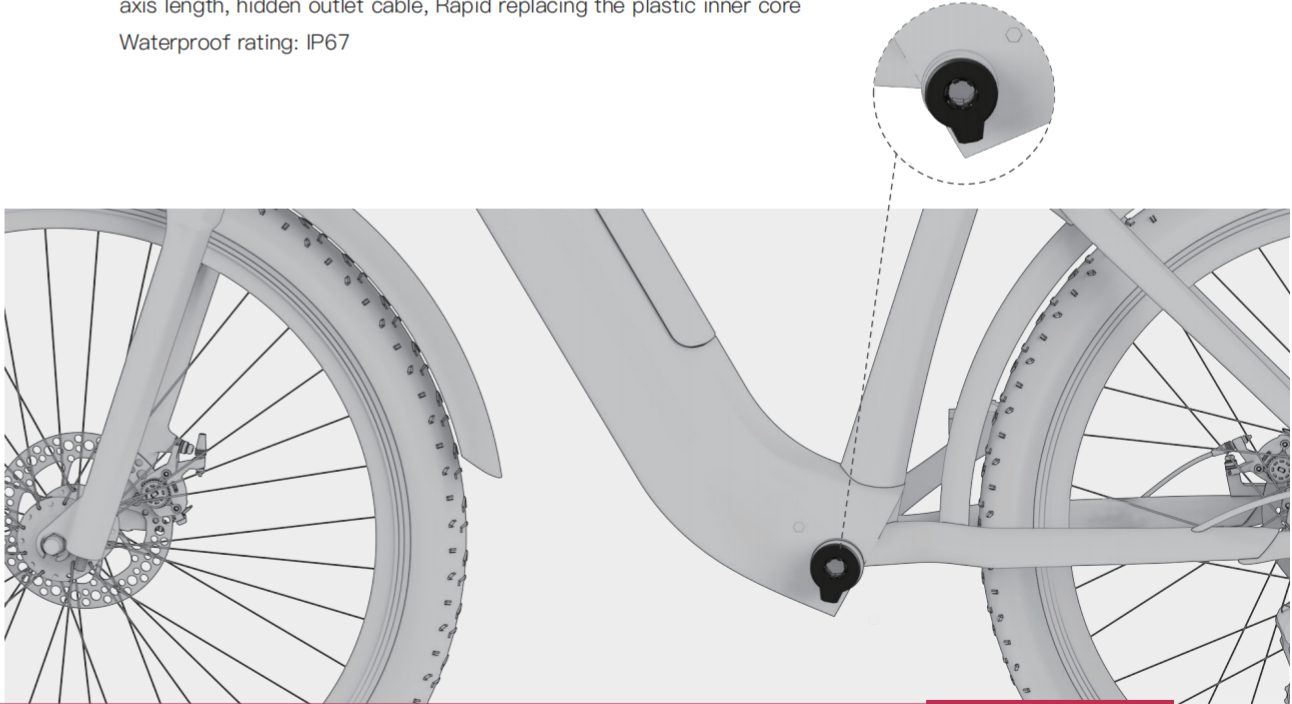
WHEEL SPEED SENSOR

CDWSS01

Sensor

CDMagnet1

14.70   19.20

49.50

Output signal ON/OFF value	NO and NC
Induced distance	10±5mm
Max. through-current	50mA
Voltage Range	3V–5V
Waterproof rating	IP67

Modular design, no need power supply, only one 2pin cable for connection

CDWSS02

Sensor

7.7

13.10

17.10

CDMagnet2

CDMagnet3
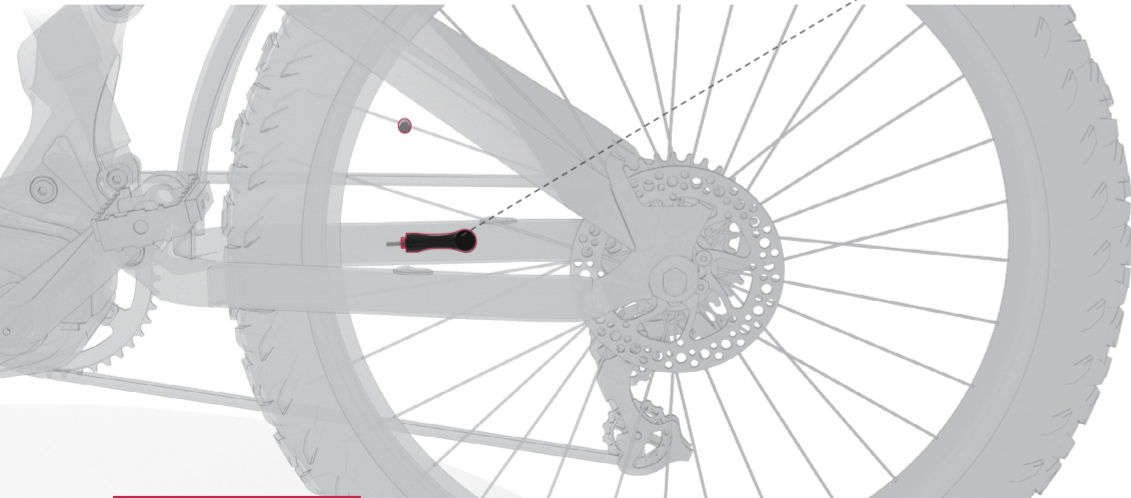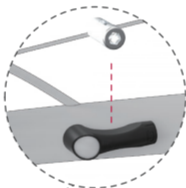
Output signal ON/OFF value	NO and NC
Induced distance	5±2mm
Max. through-current	50mA
Voltage Range	3V–5V
Waterproof rating	IP67

Modular design, no need power supply, only one 2pin cable for connection
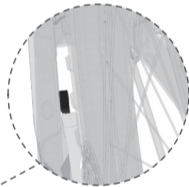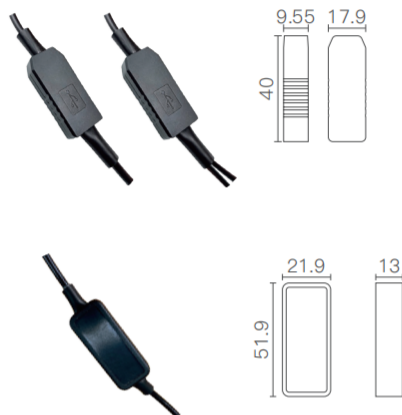
Note: CDWSS02 sensor can match with RT–EM300, RT–EM600, RT–EM900 brake disc and use their built–in magnets directly, the induction distance is same as ours.

LIGHT MODULE

DCDC

9.55 17.9
40

21.9 13
51.9
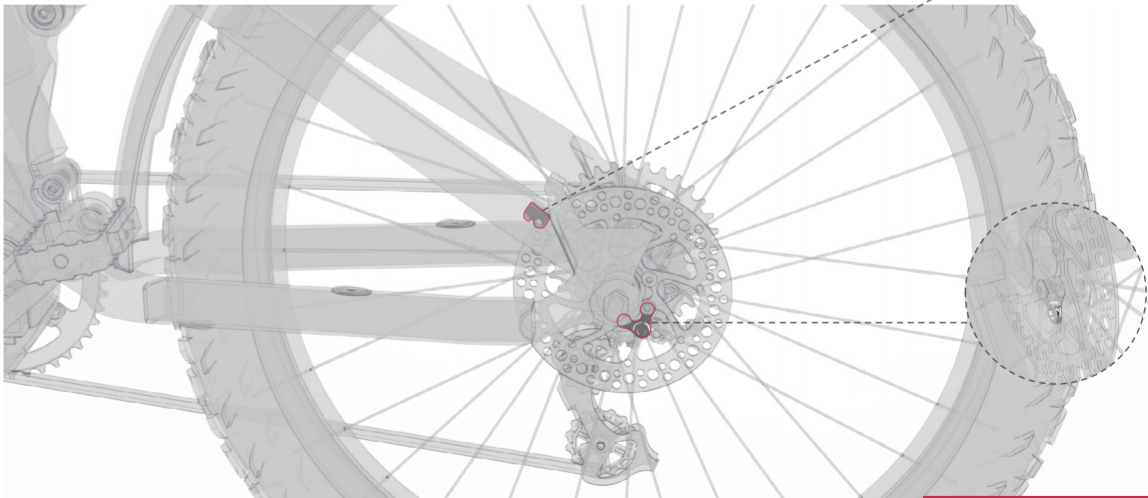
CDLM1 Single PCB 1 circuit output, battery voltage

CDLM–D Double PCB 2 circuits output, battery voltage

CDLM–6V 1 circuit output, 6V

CDLM–D6V 2 circuits output, 6V/circuit

CDLM–12V 1 circuit output, 12V

CDLM–4V/6V 2 circuits control, 1 circuit 4V/6V output, achieve brake light 50% brightness(in 4V) and 100% brightness(in 6V)

CDLM–9/12V 2 circuits control, 1 circuit 4V/6V output, achieve brake light 50% brightness(in 9V) and 100% brightness(in 12V)

CD_12Vkey 12V intelligent key module

Waterproof rating: IP65

THROTTLE

CDTR2

42
46.6
28.7
21.4

Thumb throttle with anti–skid pushing bar design

Free selection for left/right assembly

Waterproof rating: IP65

CABLE CLIP

CD–Cable_clip1/CD–Cable_clip3

4.9
3.9
3.9
4.9

C–shape cables clip

Used for 4mm/5mm brake line hose, shifting lever, hydraulic brake hose etc
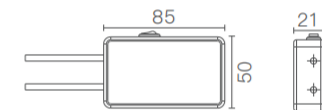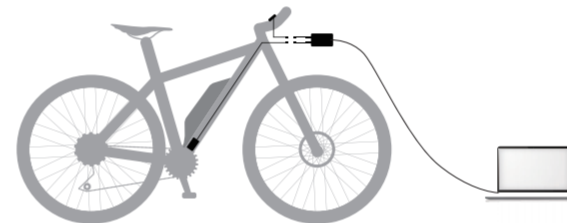
FIRMWARE UPDATING TOOL

CD–Programmer 2.0

UART version: Programmer V2.0

CAN version: Programmer CAN V1.0

Updating method:

Connect to the connector of display cable to update the program of display or controller.



[SCAN FOR VIDEO]

85 21
50

DIAGNOSTIC TOOL

CD–Diagnostic_1

This tool is used to detect the product's electrical properties during QC on incoming material or for after sale services, it can **detect:**

Display functions, throttle voltage signal, cadence signal, torque signal, wheel speed sensor signal, brake sensor signal, etc

Note: Support power supply by charging bank, easy to carry

21 85
50

[SCAN FOR VIDEO]
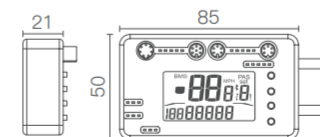
E–CITY KIT

CDD4
Current limit 15A,Motor 250W/350W,Modular design,Build–in light circuit(36V/48V)

CDD11
Current limit 13A,Motor 250W,Small assembly size,Build–in light circuit (36V/48V)

CDD6
Current limit 15A,Motor 250W/350W,Build–in light circuit(36V/48V)

CDC36
1.47'' TFT
Integrated design
Stem angle adjustable

CDC20PRO
1.47'' LCD
Exquisite appearance
Type–C charging port

CDC57
2'' TFT
NFC unlock

Cadence Sensor
CDPAS–Q24GL

3.5mm ultra–thin
Provide 24signals
Left/right assembly

Torque Sensor
CDTS3

BB(W) 68–120mm
35mV/N.m
0.5~80N.m

Brake Sensor
CDHBL–K

Shimano
MT200/MT401
Keep original structure

CDBM2
Rated Current 3–18A
Designed by Italy team

E–ROAD/GRAVEL KIT

CDD11–FY
Current limit 13A,Motor 250W,Support dual battery,Build–in light circuit(36V/48V)

CDD11
Current limit 13A,Motor 250W,Small assembly size,Build–in light circuit (36V/48V)

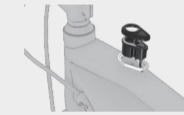### CDC11PRO
2.4'' TFT
Daytime/Night Mode
Different brackets

CDC11–B
2.4'' LCD
Clearer under brighter light

CDE10
BT communicate,
Battery SOC
Remote optional

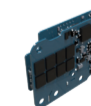### Torque Sensor
CDTS3

BB(W) 68–120mm
35mV/N.m
0.5~80N.m

CDBMS1
Rated Current 3–22A
CANBUS

E-MTB KIT

E-FAT KIT

CDD4

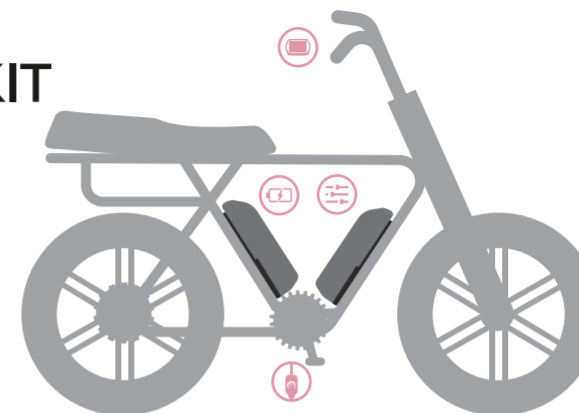Current limit 15A,Motor 250W/350W,Modular design,Build-in light circuit (36V/48V)

CDD18

Current limit 18A,Motor 250W/350W,Built-in circuit for front/rear/direction lights

CDD16

Current limit 22A Motor350W/500W Build-in light circuit (36V/48V)

CDD12

Current limit 25A,Motor500W/750W,Built-in circuit for front/rear/direction lights

CDC57

2'' TFT
NFC unlock

CDC6 Family

3.5'' LCD
Clearer under brighter light

CDC29 Family

2.4'' LCD
Clearer under brighter light

CDC6 Family

3.5'' LCD
Clearer under brighter light

CDC27 Family

3.5'' TFT
Daytime/Night Mode
OTA updating

CDC29 Family

2.4'' LCD
Clearer under brighter light

Cadence Sensor
CDPAS-Q24GL

3.5mm ultra-thin
Provide 24signals
Left/right assembly

Torque Sensor
CDTS3

BB(W) 68-120mm
35mV/N.m
0.5~80N.m

Brake Sensor
CDHBL-K

Shimano
MT200/MT401
Keep original structure

CDBM1

Rated Current 3-30A
Designed by Italy team

Cadence Sensor
CDPAS-Q24GL

3.5mm ultra-thin
Provide 24signals
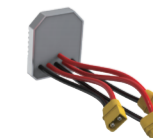Left/right assembly

Torque Sensor
CDTS3

BB(W) 68-120mm
35mV/N.m
0.5~80N.m

CDBM7

Rated current 3-50A
Optional synchronous charging function

E-CARGO KIT
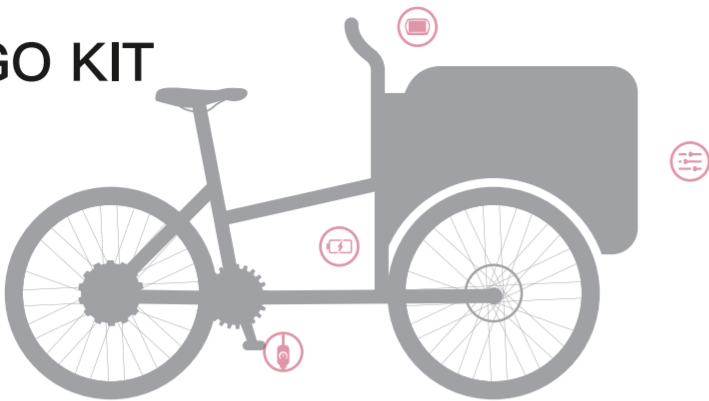
E-SCOOTER KIT

CDD18

Current limit 18A,Motor 250W/350W,Built-in circuit for front/rear/direction lights

CDD12

Current limit 25A,Motor500W/750W,Built-in circuit for front/rear/direction lights

CDD4

Current limit 15A,Motor 250W/350W,Modular design,Build-in light circuit (36V/48V)

CDD11

Current limit 13A,Motor 250W,Small assembly size,Build-in light circuit (36V/48V)

CDC6 Family

3.5'' LCD
Clearer under brighter light

CDC29 Family

2.4'' LCD
Clearer under brighter light

CDC60-X

3.5'' TFT
IoT inside

CDC29 Family

2.4'' LCD
Clearer under brighter light

CDC11PRO

2.4'' TFT
Daytime/Night Mode
Different brackets

Cadence Sensor

CDPAS-Q24GL

3.5mm ultra-thin
Provide 24signals
Left/right assembly
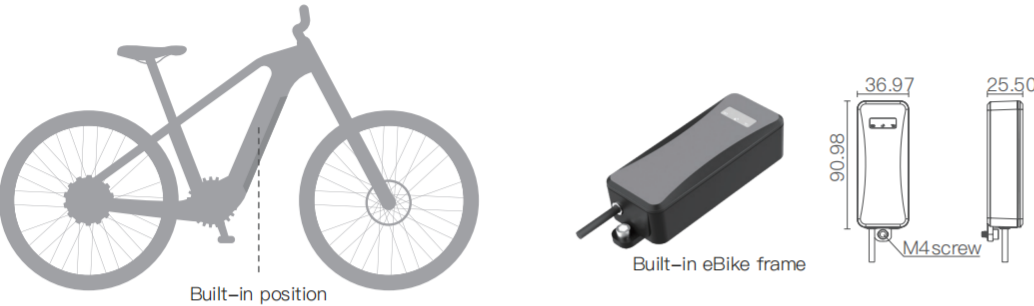
Torque Sensor

CDTS3

BB(W) 68-120mm
35mV/N.m
0.5~80N.m

CDBM7

Rated current 3-50A
Optional synchronous charging function

eBike iBOX

Built-in position

Built-in eBike frame

36.97   25.50   90.98

M4 screw

Help brand owner realize remote tracking, monitoring and positioning of eBike, increase the safety and efficiency of vehicles management, decrease the risks of vehicles loss

Firmware Confirmation

Model	CDiBox1	CDiBox2
Communicate	4G/Bluetooth 5.0	4G/ Bluetooth 5.0/CANBus
Housing size	37*90*25mm	45*80*25mm (Aug. arrival)
Waterproof	IP66	
External battery	12V ~ 80V from eBike battery (shall keep normally open)	
Internal battery	2000 – 2200mAh lithium battery(3.7V)	
Gyroscope	Three-axis gyroscope	Six-axis gyroscope
Application	Global	
Positioning	Satellite: GPS/GLONASS/GALIEO/BEIDOU	
Accuracy	Positioning accuracy less than 10m	
Ambient Temp.	−20℃ to +70℃	
Standard	LTE Cat.1 4G/2G	
Working frequency	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM 850/900/1800/1900MHz	
Certificate	CE /CE-RED/RoHs	

Note: End user enjoys above service for free in first year, but from the second year, above service shall be paid monthly/quarterly/monthly by them. Brand owner or distributor will get a part from the service fee.
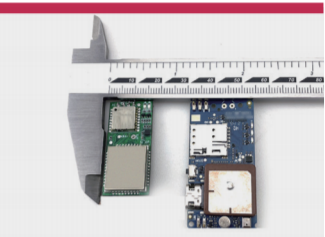
IOT MODULAR APPLICATION

4G Tracker
Enable vehicle with anti-theft and positioning functions

4G Turning Light
Built into turning light with nice appearance

Other Application
Built into saddle/display/handle-bar/water bottle bracket etc

IOT MODULAR VALUE

SNS Activities
Once forming user community, we will launch the funny SNS activities for users

Security Alarm
Remote positioning and get back vehicles, security and anti-theft

User Management
Connect with end user directly, help brand owner and distributor know user's demands and using state

Vehicle Management
Manage sales data, vehicle running data, vehicle positioning, system updating by OTA

Inventory Management
Help brand owner to know the vehicle inventory data of each sales channel

Maintenance Alert
Remind users for vehicle periodic maintenance, establish friendly connection between user and bike store

CDiBox1

Basic IoT terminal

- Supports LTE CAT1 4G global frequency band compatible with 2G networks
- IP66 waterproof
- Voltage 12~80V
- Remote power off electronic system
- Ebike positioning
- Vibration alarm
- Power outage alarm
- Fence protection
- Travel Record
- OTA remote upgrade
- Bluetooth unlocking without network

The CDiBox1 swiftly networks eBikes, offering brand operators a comprehensive IoT platform for real-time status manage-ment and remote ebike maintenance. This system streamlines inventory control and harvests valuable usage data, fostering deeper connections with users, enhancing customer service, ensuring retention, and forging lasting customer value tangibly and feasibly

For the end-user, integrating CDiBox1 elevates ebike security with advanced anti-theft location tracking. The remote locking feature immobilizes the electric assist system, bolstering theft prevention when parked. Engaging the anti-theft mode acti-vates an alarm upon unauthorized movement of the ebike. Additionally, the one-click search option for locating the ebike, geofence alerts for any breach of predefined boundaries, and automatic ride tracking for mileage analytics all contribute to a safer and more secure ebiking experience

Application Area

E-MTB KIT	E-ROAD/GRAVEL KIT	E-CITY KIT

E-CARGO KIT	ADV MOTORCYCLE	E-SCOOTER KIT	E-FAT KIT

Environmental requirements: considering the receiving effect of 4G and GPS antenna signals, the equipment cannot be completely wrapped in metal

500USD = Android & IOS App with your logo

Ebike APP

Search "EBike Protector" in Google play or APP Store. Scan the QR code for more product information

Download on the Google play

Download on the APP Store

scan for more info