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DM03 Display Functionality Introduction

Product Name: Intelligent OLED Display

Product Model: DM 03



	Signature	Date
Editor	Leo Liao	2020-06-17
Checked		
Approved		

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版本修订历史

Version No.	Reviser	Date	Revision content	
V1.01	Leo Liao	2020.06.17	Initial version	
	Leo Liao	2020.07.27	Update display coding rules	



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A Product Introduction

1. Product name and model

OLED display of electric power assist bikes

Product model: DM03

• DM03 includes two versions of UART communication and CAN BUS communication

DMO3_U corresponds to UART communication version;

DMO3 C corresponds to CAN BUS communication version.

- All DM03 products are equipped with Bluetooth in its hardware
- 2. Product Introduction
- ♦ Tempered glass screen with 2.5D chamfered edge
- ♦ 1.3 inch high brightness B/W monochrome OLED screen
- ♦ Enlarged operating space plus ergonomic button design
- ♦ IP65 waterproof level, excellent for outdoor use
- ♦ Built-in Bluetooth function, compatible with CAN-BUS and UART communication
- ♦ Service Tool function for fast firmware upgrade, parameter setting, and easy maintenance.
- 3. Range of application

Suitable for all E-bikes that comply with EN15194 standard

4. Appearance and size

The shell material of DM03 is PC+GF10, the screen is made of imported tempered glass with 2.5D chamfering technology. This product is suitable to be installed on the left side of horizontal tube

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with a handlebar size of ϕ 22.2mm.

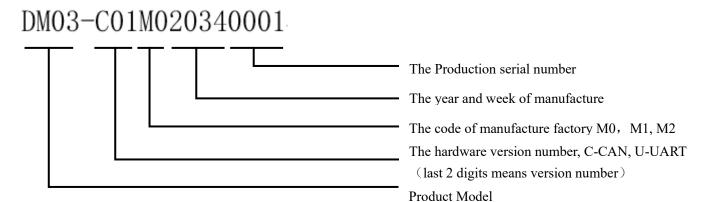


5. Display coding rules



DM03-C01M020340001 A08. 01-36V2570XX

As shown as above picture:



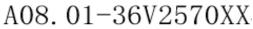


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Parameter character value (2 digits reserved)

Parameter character value (wheel size, 700C=70, 27.5=27)

Parameter character value (speed limit information, range from 04 to 46, 00= no speed limit)

Parameter character value

(voltage, 24/36/43/48/52, can be expanded)

Customer software version number

Customer code

B Product manual

- 1. Specifications
- ① Power supply: DC 24V/36V/48V
- ② Rated current: 18 mA
- ③ Shutdown leakage current: <1uA
- 4 Screen specification: 1.3" OLED
- (5) Communication method: UART/ CAN-BUS 2 modes
- **(6)** Operating temperature: -20° C $\sim 60^{\circ}$ C
- 8 Waterproof level: IP65
- 2. Function overview
- 1 Four buttons, ergonomic design
- 2 Selective digital and icon power assist gear for high visibility

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- 3 Unit: Km / miles
- ④ Speed: Real-time speed (SPEED), maximum speed (MAX), average speed (AVG)
- ⑤ Battery indicator with percentage display
- 6 Range: Endurance mileage (*available if BMS provides necessary info)
- (7) Headlight on/off status indication and control
- Mileage: Subtotal mileage(TRIP), total mileage (ODO)
- 9 Walk assist function
- 10 Parameters setting and advanced setting
- (11) Error code indication
- 3. Installation
- ① Open the display locking clip, set the display in the left handlebar (standard handlebar size:Φ22.2) Adjust to a position easy to operate, using M3 hex set to screws and tighten. Tightening torque: 0.8N.m.
- *Note: Damage caused by excessive torque is not covered by the warranty.
- ② Connect the 5 pin plug to the docking plug of the controller as marked

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4. Interface

4.1 Boot interface



Boot logo interface is displayed for 3 seconds after display is turned on. When the communication connection is established, display enters the main interface which shows information obtained from the controller. (All data displayed is following communication protocol provided by the customer)

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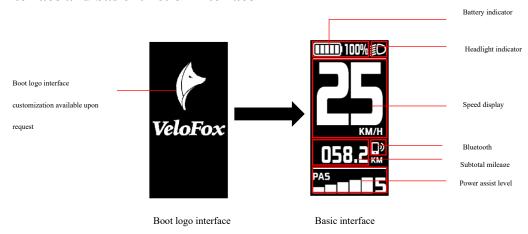
4.2 Basic interface and operation



- ① Display adopts 4 buttons: power button、 M button、 button、 button、 button、
- ② Standard Outlet is a board end connector, which is convenient for after-sales maintenance and replacement
- 3 1.3 inch OLED dot matrix display meets the need for customization of the boot interface and UI interface

4.3 Function interface introduction

Boot interface and basic function interface



Boot logo interface is displayed for 3 seconds after display is turned on. When the

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communication connection is established, display enters the main interface, showing real-time information stored in the controller and battery BMS according to communication protocol. (Battery indicator will not show battery percentage if BMS info is not available)

Other function interfaces

Function interface I

Function interface I mainly displays speed information, including average speed, maximum speed and TRIP info which is subtotal mileages as shown on basic interface. Speed display value has 3 digits, maximum value is 99.9KM/H, including one digit after the decimal point. Subtotal mileage TRIP value has 4 digits, including one digits after the decimal point. After 9999.9 KM is exceeded, the decimal point is not indicated, and a 5-digit mileage value is displayed directly, with a maximum value of 99999km. After the maximum value is exceeded, the value is shown as the actual mileage value deducted by 100,000.

Data on function interface I can be cleared by a key operation



Function interface II

The function interface II mainly displays mileage information, including endurance mileage and total mileage information. The endurance mileage is calculated by controller based on battery BMS capacity. If the controller does not provide the endurance mileage info, it will be displayed as 000.0KM. Total mileage is usually 4 digits, including one digit after decimal point. After 9999.9KM is exceeded, the decimal point is not indicated, and a 5-digit mileage value is displayed directly, with a maximum value of 99999km. After the maximum value is exceeded, the value is shown as the actual mileage value deducted by 100,000.



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Walk assist interface

Long press \checkmark button to enter the walk assist mode, interface as shown below:



Error code indication interface

When the display receives the error info returned by controller, it will show detailed error code on interface, indicating relevant electrical system fault information. The error code will be displayed numerically in the speed display area.

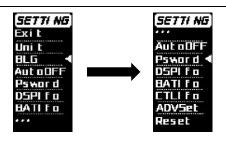


Setting interface

Within 10s after turning on display, long press M button to enter setting interface, short press \(^{\lambda}\), \(^{\lambda}\) to switch between setting interfaces. In any setting interfaces, short press M to enter parameter editing state, which offers two modes, picking and selecting. The picking mode is indicated by triangle cursor on the right, and selecting mode is indicated by parameter shown on white background. Short press \(^{\lambda}\), \(^{\lambda}\) to modify the parameters to edit. Long press M button to confirm and exit editing state, and long press M button again to return to previous page.

Short press ^ button to enter into each setting item accordingly.





Setting interface level 1 menu page

For more setting operation illustration, please refer to part 7

5. Button definition

5.1 Button name:



Power button: Turn on/off the display

Adjust button: Adjust the assisting power level during riding and switch functions

Long press the adjust buttons to perform specific function operation

Mode button: Switch interface functions and enter into parameter setting interface

5.2 Definition of button operation

Operation Type	Description
-------------------	-------------



Short press	Press the button and soon released, while the button is released, the function activated accordingly
Long press	Press the button and hold, when the hold time exceeds the setting time(generally 2 seconds), the function activated accordingly.

6. Basic function operation

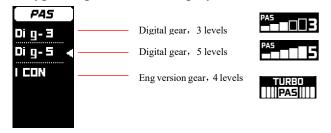
6.1 Turn on/off the display

To turn on, long press button, when the display and controller are well-connected, until boot logo interface appears and shortly enters the basic interface. To turn off, long press button, when display is on, until display is turned off. If the rider does not perform any operation on the display within set shutdown time, while speed is 0, and current is less than 1A, then display will be turned off automatically. Set shutdown time is self-defined by user.

6.2 Assist level switch

During normal working state, short press \wedge , \vee buttons to switch assist level, and change assist mode

* Power assist display can employ any of the following three modes. Please indicate your choice of mode in the order, or you can modify and choose it through advanced setting and auxiliary tool. Three types of power assist display modes:



Digital gear levels:



English version gear levels:

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OFF	ECO .	TOUR	5PORT	TURBO
[][][] PAS [][][]	[[[]]] PAS [[[]]]	[]]]]PA5]][][]	[[[[PA5]]]]]	PAS III

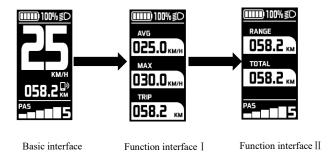
Short press button to switch assist level. Switching level is not cycled, that is, after reaching 5th level, short press button to return to off level. It's the same when adjusting up.

6.3 Information switch

In a power-on state, short press M button to switch alternately from basic interface, function interface I, and function interface II. In normal riding state, if the bike speed is greater than 0, and display is not in the basic interface, then basic interface will be automatically returned to after 5 s no operation on M button.

Function interface I displays the average speed, maximum speed and subtotal TRIP mileage; Function interface II displays the endurance mileage and total mileage.

The switching process of each interface, as shown below:



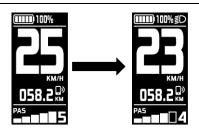
*If BMS communication is not supported, display cannot obtain accurate RANGE information, and the value of RANGE is displayed as 000.0KM

6.4 Light control function

In a power-on state, long press hutton to turn on the front light, at the meantime, a light icon on top left corner of screen will appear indicating light-on status. Long press hutton to turn the lights off.



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6.5 Speed information switch

In basic function interface, display shows the real-time speed, average speed, and maximum speed. Users can switch info by short press M button. Check 6.3 for more information switch.

6.6 Walk assist function

When speed is 0, long press button to enter walk assist mode, motor output according to the setting speed and control the actual walk speed, display shows the walk assist icon and the real-time speed. Release button or any other button to exit walk assist mode, the motor is turned off, and the display gets back to the basic interface. Walk assist interface, shown as below:



6.7 Battery power indicator and assist power output

Battery power information is divided into battery bar indication and remaining percentage indication. When battery power is normal, battery capacity is divided into 5 bars. Before communication is established, battery percentage is not displayed, and the power bar is full and blinks at 2Hz. After battery info is acquired, power bar will stop blinking, and displays the power percentage. If communication is not successful within 5s, it will stop blinking and no power percentage will be displayed.

After battery capacity is lower than 5% or the voltage is lower than low voltage value, display will enter low-voltage mode. In this mode battery level showed level 0 and border blink at 1Hz, with

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no power output from the motor, and disabled assist level switch. Power assist level is displayed as OFF or 0.

To get out of low-voltage mode, reset, and increase the voltage above low-voltage value and battery capacity above 5%.

Percentage of battery power (C) and power level table

(Require battery % info from BMS or controller):

SOC	Battery level	Description
80% ≤ SOC		Full battery level 5
60% ≤ SOC < 80%		Level 4
40% ≤ SOC < 60%		Level 3
20% ≤ SOC < 40%		Level 2
10% ≤SOC < 20%		Level 1
5% ≤ SOC < 10%		Level 0
0% ≤ SOC < 5%		Level 0 and icon blink at 1Hz

Remarks about battery indicator:

When there is a battery communication error:

- Display will estimate the power according to the voltage and show the battery level accordingly;
- 2. No battery percentage information shown;
- 3. Range information will not be displayed;
- 4. If the voltage is lower than the low-voltage value, the effect of the current on voltage needs to be considered when converting to voltage at 0 current

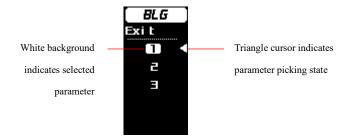
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7. Setting Function

Display provides specific parameter setting functions. The optional items of setting function will be deleted according to different market and product standards. The following is the complete parameter setting, information reading function description under the default state of display. Please contact our sales and technical support team for confirmation in case of any discrepancies.

Within 10s after turning on display, long press M button to enter setting interface, short press

button to switch between setting interfaces. In any setting interfaces, short press M button to enter parameter editing state, the triangle cursor on the right side indicates parameter picking state. Except for the first-level, parameter setting mode is indicated by parameters shown on white background, as shown below:



Short press ^, button to edit parameters. Long press M button to confirm parameter selection.

Long press M button again to exit and return to previous page. In any interface of the setting mode, short press M to enter next level, and long press M button to return to the previous menu.

Setting interface firstly enter the first-level parameter setting interface, description of each pareameter is as follows:

Setting	Interface	Description	Setting data	Remark
items				
	UNI T		Value=KM/H	Defalt
	Exit KM/H ◀		MPH	Value=KM/H
Unit	MPH	UNIT=Unit		
Setting				KM/H—Metric
				MPH—
				Imperial



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		<u>.</u>	•	
Backlight level setting	8LG Exit 1) < 2	BLG=Backlight	Value= 1, back light level 60% Value= 2 Back light level 80% Value= 3 Back light level100%	Default Value= 1
Auto shutdown time	AutoOFF Exit OFF S min 10 min 20 min 30 min	AutoOFF= Auto sleep	Value=OFF,5-30 min	Default Value=5min Step=5 min OFF means no auto shutdown
Power-on password setting	Psward Exit OFF ON 2 4 8 0	Psword=Password	Value= OFF and ON; When is ON, user is allowed to set 4-digit password	Default value: OFF
Display info	OSPI FO HD Ver. Vol. 026 FV Ver. Vol. 026 SN code COlNIZO1 42003	DSPIFO=display information	Read-only	According to communication protocol
Battery	BATI FO SOC 80% Vol tage 36. 8V Capci ty 5. 2Ah Cycl es 189	BATIFO=battery information	Read-only	According to communication protocol
Controller Info	CTU FO HD Ver. VOI. 026 FV Ver. VOI. 026 SN code COIN1201 42003	CTLIFO=controller information	Read-only	According to communication protocol



*Advanced	ADVSET	ADVSET=Advanced	Go to advanced	See advanced
setting	Exi t Vheel Di	setting	setting	settings
options	SpdLtd ◀ PAS		secondary	
	Ssensor		parameter setting	
	Psensor Di rec		interface	
	•••			
Reset to	MARNI NG	RESET	Reset	All parameters
factory	All The Data Will Be			will be restored
setting	Reset To Factory			to factory
	Setting			setting
	RESET			
	YES No			

8. Advanced setting functions

*Warning

The advanced setting function is based on specific protocol content, allowing to modify and set the controller and system parameter through display side. This feature is only available to specific groups of people, such as bike manufacturers, dealers and other entities with professional technical capabilities. Debugging and maintenance are allowed through advanced setting functions. In case of improper parameter setting or other setting problems, the whole system will work improperly or even have failure problems. Please be cautious about whom to open this feature to.

Advanced settings require a specific password, if you need to use this feature, please communicate with our company sales and technical support team to confirm compatibility with your current hardware version. At the meantime, please confirm with our sales and technical support team for adequate maintenance capacity, before obtaining the password.

Advanced setting operation instructions

After selecting the advanced setting in the first-level menu, short press M button to enter the login password. Short press M button to select the corresponding password digit in the 4-digit password field. The selected password digits will be highlighted with a white background. Short press to edit password value, and short press M button again to confirm the input. The password input interface is as follows:



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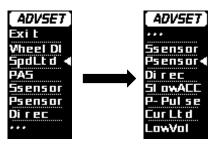
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After the password is typed correctly, advanced setting is entered, divided into two-page contents. Short press to pick and select, triangle cursor on the right indicates selected object.



Advanced setting functions descriptions:

Setting	Interface	Description	Setting data	Remark
item				
	Wheel Di Wheel Di		Value=12, 14,	Default value
	Exit 26		16, 20, 24, 26,	26
Wheel size	14 < 27 <	WheelDI=Wheel	27, 27.5, 700C,	
setting	20 28	diameter	28, *29, *CCF	
	24 700C 26 29		(*value is	
	··· CCF		optional)	
	SadLt d		Value= 5 to 46	Default Value=
				25
Speed	2 O.S	SpdLtd=Speed		Step=1
limitation	km/ h	limitation		
setting				
	PAS	PAS= Pedal	Value=	Dig-3:
	Di g-3	assistant Mode	Dig-3;	Digital 3 gear
Power	Di g- 5 ◀		Dig-5;	levels
assist	ICON		ICON	Dig-5:
display				Digital 5 gear
setting				levels
				ICON:
				Eng version
				gears



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		T	T	1
	PAS	PAS= Pedal	Value=	L1-L5
Power	Exit L1=≣⊒ %√	assistant Level	L1 to L5;	Power assist
assist level	L2=45 %		0-100%	level
setting	L3=65 % L4=85 %			corresponding
_	LS=100%			to each gear
				Step=1%
	S sensor	Ssensor=Speed	Value= 112	Default value:
Speed	pul se per	sensor		1
magnet	cycl e			Step=1;
numbers	08			magnets
				detected by
				motor
	Psensar	P-Sensor= PAS	Value= 1-64	Default value:
Power	pul se per	sensor		12
assist	cáci s			Step=1;
magnet	0 8			Power assist
number				magnet number
	Direc	Direc= PAS	Value= F or R	F=Forward
		sensor direction		R=Reversed
Power	☐ R			Signal
Assist				direction of
Magnet				sensor, can be
direction				adjusted
				corresponding
				to right or left
				instalation
Slow	SI OWACE	Slow-ACC= slow	Value= 0-3	Default value:
acceleration		acceleration		0
Number of	P- Pul se	P-	Value= 2-63	Default Value:
poles for		Pulse=assistance		2
power	1 4	started pulse		Step=1
assist				Number of
magnet				starting
				magnets
		•	•	•



T			l	
Current	Eur Lt d	CurLtd= current	Value= 0-31.5A	Default Value:
limit setting		limitation		12
	1 6 .5 A			Step=0.5A
				Controller's
				current limit
				setting
System	Sys Val	SysVol= select	Value=	Default value:
voltage	Exit	system voltage	24V/36V/48V	36V
setting	36V			Choose system
	48V			voltage
Low	LawVal	LowVol= low	Value= 10.0-	Default value:
voltage		voltage level	52.0V	31.5V
protection	3 0 .5 V			Step=0.5V
setting				Select the low-
				voltage value
				for protection

* Note: The wheel diameter option CCF is the wheel diameter perimeter setting, which needs to be supported by the controller communication protocol. Parameter 29 = wheel diameter of 29 inches, which needs to be supported by a corresponding controller communication protocol. When the CCF value is selected for the wheel diameter parameter, customer is allowed to customize the wheel diameter circumference value (four-digit length value in mm).

Wheel diameter input operation: Short press \(^\circ\) button to enter the parameter value, short press M button to switch to the next number, long press M button to confirm each digit input. After confirming the wheel diameter value input, long press M button to exit the current setting and return to previous menu. The type of wheel diameter configuration will be recorded to the controller. If customer confirms wheel diameter CCF option, then CCF page will be displayed directly when entering the wheel diameter setting.

CCF

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Reference table for the circumference value corresponding to common wheel diameters

	RTO		ETF	RTO	
16 x 1	.75 x 2	kmh mph	16 × 1	75 x 2	kmh mph
47-305	16x1.75x2	1272	32-630	27x1 1/4	2199
47-406	20x1.75x2	1590	28-630	27x1 1/4 Fifty	2174
37-540	24x1 3/8 A	1948	40-622	28x1.5	2224
47-507	24x1.75x2	1907	47-622	28x1.75	2268
23-571	26x1	1973	40-635	28x1 1/2	2265
40-559	26x1.5	2026	37-622	28x1 3/8x1 5/8	2205
44-559	26x1.6	2051	18-622	700x18C	2102
47-559	26x1.75x2	2070	20-622	700x20C	2114
50-559	26x1.9	2089	23-622	700x23C	2133
54-559	26x2.00	2114	25-622	700x25C	2146
57-559	26x2.125	2133	28-622	700x28C	2149
37-590	26x1 3/8	2105	32-622	700x32C	2174
37-584	26x1 3/8x1 1/2	2086	37-622	700x35C	2205
20-571	26x3/4	1954	40-622	700x40C	2224
	14x1.75	1046		12x1.75	957

9. Data clearance

Data clearance is aimed at the removal of data information such as subtotal mileage TRIP, average speed, and maximum speed. 10s after display is turned on when display is at function interface I, long press M button to show data clearance window, short press button to select accordingly. To remove the pop-up clearance window, long press M button or remain no operation for 30s.



After clearance, the subtotal mileage TRIP is 0, average speed and max speed is 0. ODO information can't be cleaned manually on the display, professional service tools are required.



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10. Error information

Display can warn bike faults. When faults are detected, error code will be shown on interface and blink at 1Hz. When error code is shown, button functions will not be affected, meaning interfaces can be shown normally by pressing buttons. If no button operation after 5s, the display will returns to the error code interface.

Error code interface as shown below:



Error code information table:

Error code	Error description	Suggest operation
"04" shown at speed	throttle doesn't turn back to zero position (stay on the high position)	Check if the throttle turned back
"05" shown at speed	throttle failure	Check throttle
"07" shown at speed	overvoltage protection	Check battery voltage
"08" shown at speed	failure of motor's hall signal wire	Check motor
"09" shown at speed	failure of motor's phase wire	Check motor
"11" shown at speed	failure of the motor's temperature sensor	Check controller
"12" shown at speed	failure of the current sensor	Check controller
"13" shown at speed	failure of the temperature of the battery	Check battery
"14" shown at speed	Controller temperature is too high, and reaches the protection point	Check motor
"21" shown at speed	failure of the speed sensor	Check the install position of the speed sensor
"22" shown at speed	Failure of BMS communication	Change battery
"30" shown at speed	communication failure	Check connector to controller

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(* The corresponding error codes of different system protocols are different. If the error code appears, please communicate with our sales and technical support team to verify and confirm!)

11. Wire definition

11.1 Standard wires definition:

The standard outlet of the display is in the form of a board end plug-in. The standard outlet needs to match the corresponding conversion wire. Velofox has set a corresponding standard for conversion wire length and interface standards. If the standard setting cannot be met, specially customized conversion wires are required.



DM03 offers two modes of outlet: board end plug-in and non-board end plug-in. The non-board end plug-in mode is a conventional way for direct cable access to the product.

Standard outlet in a sample is shown in the figure below:

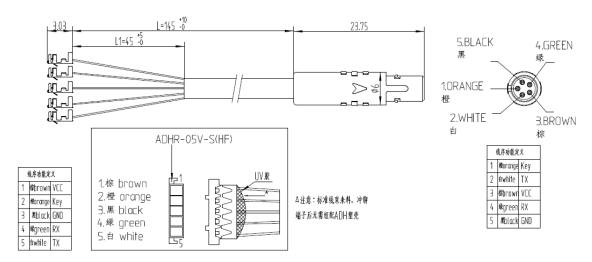


Table 1 Standard wire definition

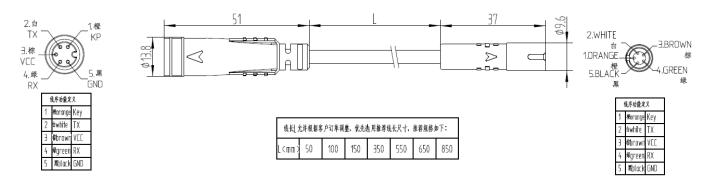
No.	Color	Function
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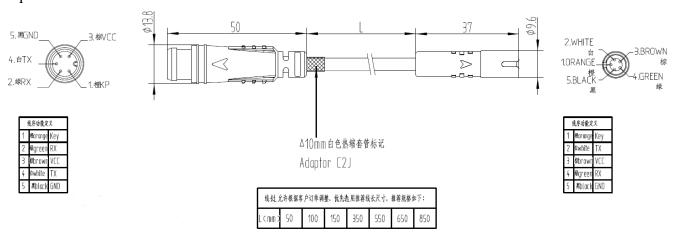
1	Orange(KP)	Power lock control wire	
2	White(TX)	Data transmission wire of display	
3	Brown(VCC)	Power wire of display	
4	Green(RX)	Data receiving wire of display	
5	Black(GND)	GND of display	
6	reserve	reserve	

11.2 Standard conversion wire specifications:

Adaptor-C2H:



Adaptor-C2J:

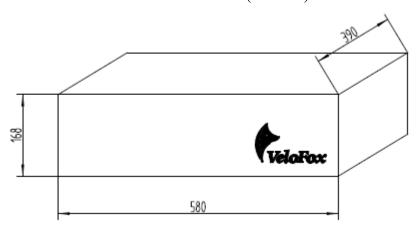


C Package specifications

Standard delivery, in double corrugated box packaging. Inner layer is double corrugated septum plus EPE foam product bag.

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Outer box size: 580*390*168mm (L*W*H)



D Note

- ❖ In the use of the display, pay attention to the security, do not plug the display in and out the when the power is on;
- ♦ Try to avoid exposure in harsh environments like heavy rain, heavy snow, and strong sunlight
- ♦ When the display can't be used normally, it should be sent to repair as soon as possible