EPIC™
C A R T S

10.1" Multimedia Digital Display

User Manual

10.1" Multimedia Digital Display

Introduction

This product is a 10.1-inch multimedia speedometer for vehicles, which has the functions of dynamic display of data information and multimedia playback

The speedometer uses the CAN bus to directly communicate with the controller and the battery management system BMS. At the same time, it can also collect and control the data of the peripheral equipment, and display it on the screen after comprehensive calculation.

It adopts full-screen touch control, and the left side of the instrument is supplemented by blue backlight buttons for quick operation.

External USB port supports multimedia playback, and audio and video media formats, such as MP3, MP4/MKV/AVI files and so on.

The Bluetooth connection of the mobile phone allows the music playback and answering of the phone.

Integrated FM radio module, using the attached external antenna can automatically search for radio stations and store up to 40 preset radio station.

Security Information

1. The electrical wiring should strictly follow the wiring diagram, especially pay attention to the direction of positive and negative poles, and to whether the voltage value of the electrical system is correct

2. When the fault alarm indicator light on the speedometer is on, stop and check immediately;

3. Do not turn on the multimedia while driving;

4. Do not work with electricity during the disassembly process, so as not to damage the speedometer and other components.

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Specifications

Product Model: CA-X101

Operating Voltage: DC12V

Operating Temperature: -30°C~70°C

Power Consumption: Standby≤30mA; Working

Current≤10A Screen: TFT 10.1 inches

Communication: CAN

Battery Voltage: 60V

USB Charging: 5V/1A

Built-in Battery: CR2032/3V

Amplifier Power: 25Wx4

Reversing Camera: 18.5mm opening, waterproof wide-angle HD FM: 87.5Mhz~108Mhz , slightly different due to different regions Size: 253×147×43mm

Meter Fixing Screw: M3×10

Content

1. 1 pcs Speedometer

2. 1 pcs USB charger

3. 1 pcs FM radio antenna (the corresponding socket is located on the back of the product)

Wiring

## Function and definition:
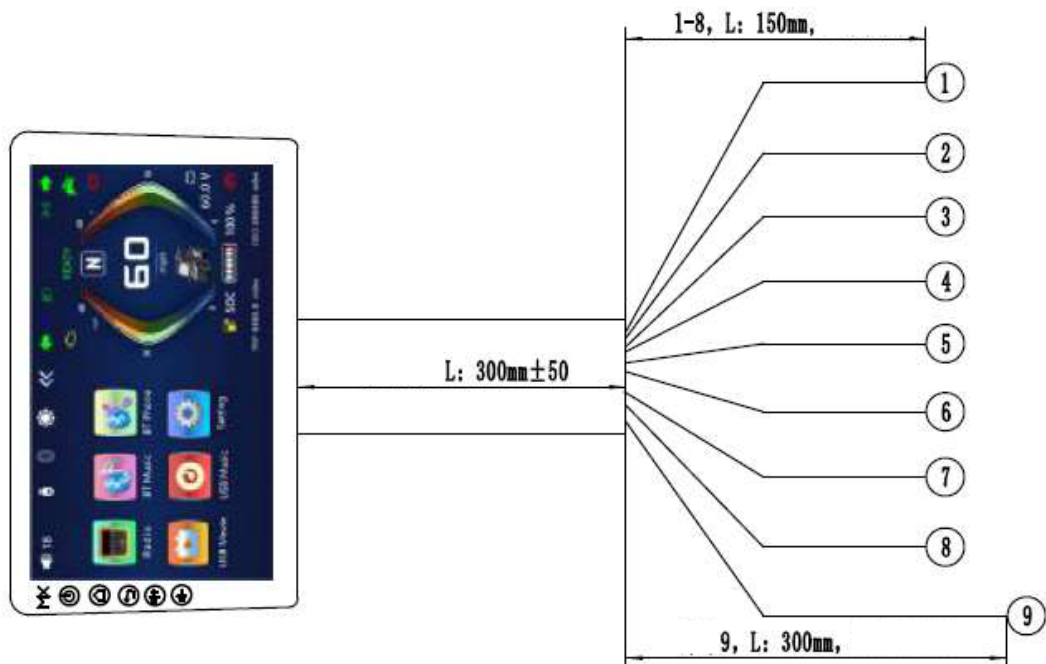
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① : DJ7091-2.3-11   (along the direction of plugging)

Pin	Wire Diameter - Thread Color	Function	Voltage	Comment
1	UL1007-20# white	Small light indicator	12V+	
2	UL1007-20# purple	Low beam indicator	12V+	
3	UL1007-20# green	Brake failure	12V+	
4	UL1007-18# black	Negative pole	GND	High and low voltage share the same load
5	UL1007-20# yellow	Right turn sign	12V+	
6	UL1007-20# orange	Left turn sign	12V+	
7	UL1007-20# pink	Handbrake indicator	12V+	
8	UL1007-20# blue	High beam indicator	12V+	
9	UL1007-18# yellow	Key switch	12V+	Power supply

② : DJ7061-2.3-11   (along the direction of plugging)

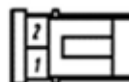| Pin	Wire Diameter - Thread Color	Function	Voltage	Comment
1	UL1007-20# brown-white	Speed signal	pulse	
2	UL1007-20# blue-black	Reverse image	48V+	Reversing instructions
3	UL1007-20# orange-white	Forward instructions	48V+	
4	UL1007-20# grey	Turtle instructions	48V+	
5	N/A	N/A	N/A	
6	UL1007-20# red	Regular power	48V+	

③ : CAN cable DJ7021-1.5-11
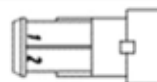
Pin	Wire Diameter - Thread Color	Function	Comment
1	UL1007-20# purple-red	CANH	
2	UL1007-20# green-red	CANL	

④ : Speaker interface DJ7021-1.5-21

Pin	Wire Diameter - Thread Color	Function	Comment
1	UL1007-18#blue	Speaker negative	
2	UL1007-18#brown	Speaker positive	

⑤ : Speaker interface DJ7021-1.5-21

Pin	Wire Diameter - Thread Color	Function	Comment
1	UL1007-18#white	Speaker negative	
2	UL1007-18# green	Speaker positive	

⑥ : Reversing image interface, M12-4P   (along the direction of pins)

Pin	Wire Diameter - Thread Color	Function	Voltage	Comment
1		Image signals	CVBS input	
2	4•0.3mm2multi-core cable	Camera power supply	12V+	Speedometer output
3		Image ground wire	OV input	
4		Camera ground wire	12V-	Speedometer output

⑦ : Radio antenna interface, R10 female connector

⑧ : AUXaudio interface, 3.5mm female connector

Pin	Wire Diameter - Thread Color	Function	Voltage	Comment
1		Ground wire	GND input	
2	multi-core cable	Right channel	audio input	
3		Left channel	audio input	

USB port, 6P head — ⑨ — (along the direction of pins)

Pin	Wire Diameter - Thread Color	Function	Voltage	Comment
1		Speaker positive	Voice input	
2		USB power supply	5V output	
3	multi-core cable	Data negative	data signal	
4		Speaker negative	Voice input	
5		Data positive	data signal	
6		USB ground wire	OV input	

Operating Instructions

Homepage
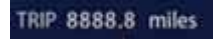
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Homepage function instructions:

1. 🔊18 Volume icon, showing real-time volume value;

2. U disk display: The U disk icon will not be displayed if the U disk is not inserted, and the U disk icon will be displayed if the U disk is inserted; 🗄

3. Bluetooth icon: The icon is gray 🔵 when not connected and blue when connected; 🔵

4. Brightness: switchable to full ⚙ or half brightness ◑

5. Click this ≪ in other interfaces to return gradually until returning to the home page

6. ⬅ Left turn indication flashes when the left turn signal or hazard warning light is turned on

7. 🔵 High beam indicator is displayed when the high beam is turned on (optional function, some vehicles do not use this function)

8. 🔵 Low beam indicator is displayed when the low beam is turned on (optional function, some vehicles do not use this function)

9. 🔵 Fault indicator. When the vehicle fails, this light comes on; when the light lights up, click the icon to display specific fault information

10. READY The READY indicator light lights up when there is no fault in the vehicle and goes out when there is a fault in the vehicle or the vehicle speed is greater than 2KM/H

11. ⚡ Small light indication is displayed when the small light is turned on (optional function, some vehicles do not use this function)

12. ➡ Right turn indication flashes when the right turn signal or hazard warning light is turned on;

13. High and low speed indication displays when in high gear 🐇 displays when in low gear 🐢

14. ⊘ Brake failure indication, lights up when the oil tank is out of oil (optional function, some vehicles do not use this function)

15. Gear position indication, displayed in neutral **N** forward gear **D** reverse gear **R** or entering the reversing image interface;

16. Speed dynamic bar, dynamically displayed as the speed changes;

17. Speed value display, showing real-time speed value;

18. Voltage dynamic bar, dynamic display with voltage changes;

19. Voltage value display, showing real-time voltage value;

20. Parking indicator ℗ displayed when parking (optional function, some vehicles do not use this function);

21. ▮▮▮ 100% The battery indicator turns yellow when the battery level is ≤20%; it turns red when the battery level is ≤10%;

22. 120 A Current indication, showing real-time current value;

23. Charging reminder, it ⛽ does not display when the battery level is >20%; when the battery level is ≤20%, it ⛽ lights up; when the battery level is ≤10%, it lights up and flashes, indicating the urgent need for charging;

24. TRIP 8888.8 miles Subtotal mileage display;

25. ODO 888888 miles Total mileage display

Button definitions:

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1. Mute button: Press this button, the mute icon ![mute] will be displayed in the volume area. At this time, the speedo is in mute state. Press the increase or
decrease volume icon to release the mute mode.
2. Home key: Press this button in other interfaces such as radio, Bluetooth, settings, etc. to directly return to the home page, such as playing radio, music, and
3. Backspace: Press this when in other interfaces, and it will gradually return to the home page.
4. Volume+: Press this to increase the volume. The maximum volume is 30
5. Volume-: Press this to reduce the volume. The minimum volume is 0

Multimedia:

 FM

 BT Music

 Telephone

 US B Movie

 USB Music

 Setting

Radio interface display

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Station search:

After clicking the search icon 🔍 , the speedometer will automatically search for radio stations from 87.5-108.0, and store the radio frequency locally, which is convenient for users to call and manage. Up to 40 stations can be stored and displayed in the station area, each page displays 6 stations

Station selection:

These two buttons can respectively select the previous page/next page of preset stations for page turning

Frequency display: real-time display according to the selected

Bluetooth icon:

It turns blue when connected, and gray when not connected

Pause playback:

Click here to play or pause mobile phone Bluetooth music Backwards: Click here to play the previous song from your phone Forwards:

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Click here to play the next song from your phone

Connected devices:
When the bluetooth is successfully connected to the speedometer, it will display the name of the connected device, such as iPhone, which may be the device model, or the name customized by the mobile phone.

Bluetooth name:
The bluetooth name of the device, the mobile phone or other equipment can search for the bluetooth through this name to connect and pair
This is a very important step connecting the mobile phone to the Bluetooth. Search for the corresponding name according to this name to pair successfully. Different meters have different names.

Phone interface display

Digital display area:
1. When dialing a number, this area will display the number in real time, and the interface will display a dial icon as shown in the figure 📞 : Click this button to make a call, and the interface will display a hang-up icon after making a call. 📞Click this icon to end the call
2. 📞 Click this button to enter the call recording interface
3. ⌫ When you enter a wrong number, you can press the delete button to delete it

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Movie interface display

Movie list:

The movies copied from the U disk are displayed in this list, you can slide up and down to select the video, and click to play the movie after selection
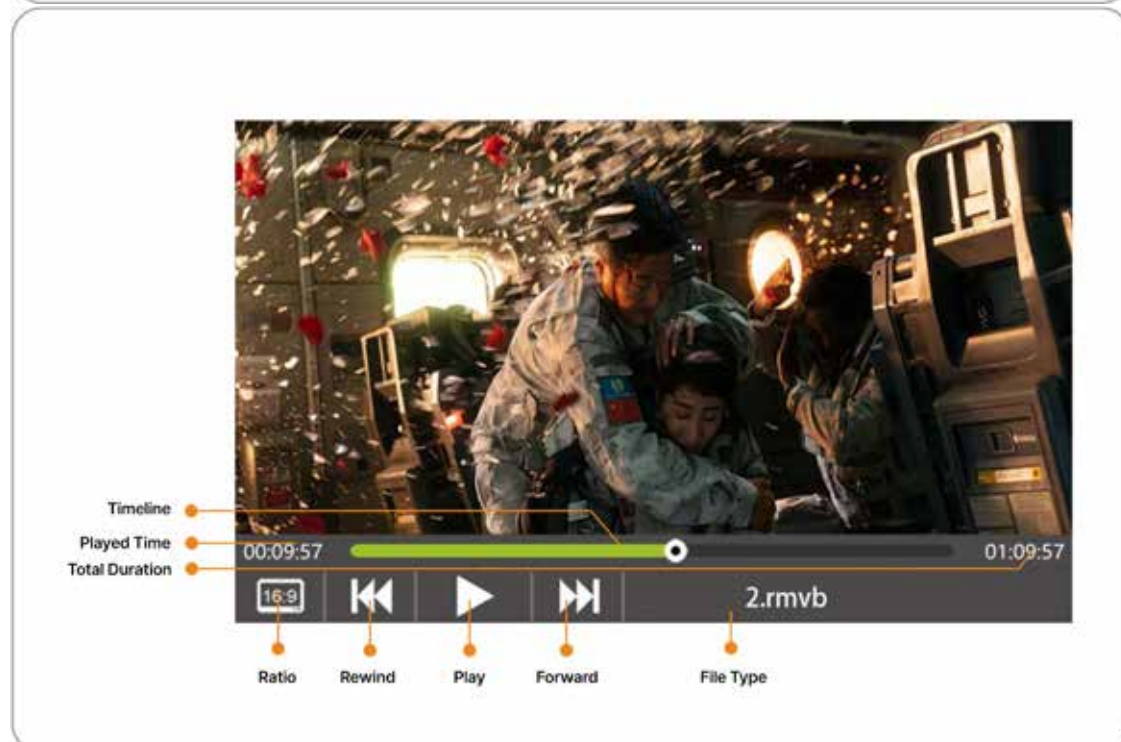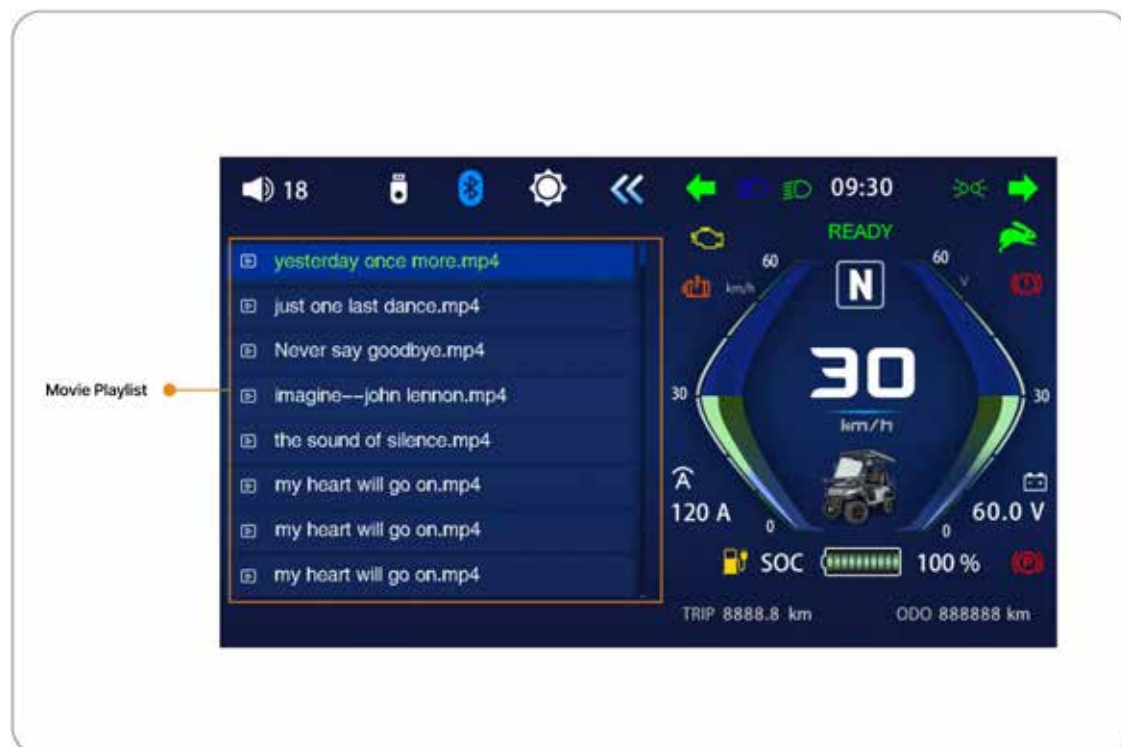
Played time:

You can manually adjust the playback progress bar

Total time:

Show the total duration of the movie

Scale adjustment:

AUTO: [AUTO]   standard mode

Full Screen Mode: [icon] Switch to this icon to enter full screen mode

1:1 mode: [1:1] switch to this icon to enter 1:1 mode

16:9 mode: [16:9] switch to this icon to enter 16:9 mode

Previous song: Click this icon to play the previous video

Next song: Click this icon to play the next video

Pause/Play: Click this icon to play the video or pause it

Movie Name/Format: When the video is playing, the current name and format of the video is shown here

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Music interface

Music list:

The music copied from U disk is displayed in the list here, you can slide up and down to select the music, and the music will be played after selection

Played time:

You can manually adjust the playback progress bar to choose to play

Total time:

Show the total duration of the music

Previous song: Click this icon to play the previous song

Next song: Click this icon to play the next song

Pause/Play: Click this icon to play music or pause playback

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Setting interface

Basic settings:

Language: English / Chinese

Unit: Miles/Kilometers

Restore default settings: Click here to pop up a dialog box

Click OK to restore the machine to its original upgraded state.

For example: setting Chinese, kilometers and miles, volume, etc. will be restored to the original state. Clicking Cancel will give up the recovery.

Vehicle Information:

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Working time: the total time the machine is running

Subtotal mileage: the mileage of the machine, click here to clear the subtotal

Motor temperature: displayed according to the data transmitted by the controller

Controller temperature: displayed according to the data transmitted by the controller

Speed adjustment: the base value is 100. Increasing the base value can increase the speed. Decreasing the base value can decrease the speed. (This function can only be adjusted when the speed uses a pulse signal. When the speed is transmitted through CAN communication, it can only be adjusted by the controller.)

About:

Version number display: Display the current version number of the machine, click here 3 times to check the main control version, single-chip version, and Bluetooth version