Power Box Max

Product specification



1. Product overview

Power Box Max is a Dashcam video extension power box that supports the expansion of 4 AHD inputs or 3 AHD inputs plus 1 IPC input. It has AI extension capability and supports left, right, and rear Blind Spot Detection (BSD) audio-visual alarms. It also supports quick power supply from the original vehicle's OBD port and OBD data parsing capability. It is commonly used in Dashcam products that require vehicle blind spot compensation and cargo monitoring in the scenes of medium and large freight vehicles.

2. Product features

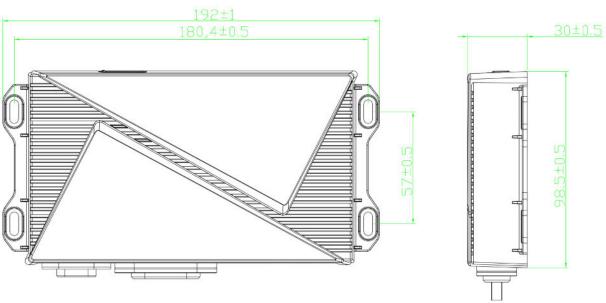
- Support 3-way IO detection and 1-way iButton access.
- Support 1-way IO output with a current of up to 0.5A.
- Support 3-way RS232, where RS232-1 is default for R-Watch, RS232-2 is for B3 left, and RS232-3 is for B3 right.
- Powered by OBD, with 2 built-in CAN channels, support for J1939 protocol, and a choice between J1708/J1850/K-LINE protocols.
- Support 4-way AHD input or 3-way AHD plus 1-way IPC input.
- Support 1-way video output, configurable as AHD or CVBS output.
- Equipped with AI detection capability, supporting up to 3-way BSD with time division and real-time operation of 2-way BSD, and support for 2-way B3 blind spot indicators.

3. 3Product Specifications

Product number		
	Power Box Max	
Interface		
RS232	3 ch, 232-1 connects to R-Watch by default, 232-2 connects to the left side of B3, and 232-3 connects to the right side of B3	
SENSOR IN	3 inputs	
SENSOR OUT	1 output	
iButton	1 channel	
CAN	2 ch	
K-LINE	1ch (和 J1708/J1850/K-LINE) choose one of three	
USB	1 x USB2.0 (Type A), Used for local upgrade	
LAN	1 ch, Connect to AD Plus 2.0	
Video		
Enter	4 channels AHD or 3 channels AHD+1 channel IPC	
Output	1 ch video output, configurable as AHD or CVBS output.	
Total Resource	3 channels 720P 15 frames + 1 channels 720P 10 frames It can support up to 3 channels of BSD for time-sharing and 2 channels of BSD for real-time operation	
Power Related		
Power supply	12V and 24V vehicles (self-adaptive)	
Standby power consumption	 In standby mode: 13.5V@4.2mA, 27V@2.3mA In sleep mode (4G and MCU powered): 13.5V@59.8mA, 27V@41.8mA 	

	 Typical power consumption (with AD Plus2.0 and 4 cameras in Power Box Max): about 25W Full-load power consumption (with dual SD cards installed, SIM card for Max): about 25W 			
	dialing, Wi-Fi turned on, additional 4 cameras, and infrared lamp to on): about 30W			
* The above data are test data obtained in a specific environment				
	laboratory, and may vary with the individual product differences, service environment, and testing methods.			
Physical properties				
Size (mm)	192mm x 98.5mm x 30mm			
Weight (g)	554g (Bare Metal)			
Working environment				
Operating temperature	-40°C~+70°C (-40° F ~ +158° F)			
Storage temperature	-40°C~+85°C (-40° F~ +185° F)			
Working humidity	15%-95% (No condensation)			
LED Indicator Sta	LED Indicator Status			
Power Status Lights	Off/Green Off: The device is not powered on Steady green: The device is powered normally			
Network Status Indicator	Off/Red Off: Means the connection between AD Plus and Power Box Max is failed Red: Means the connection between AD Plus and Power Box Max is connected			

4. Dimensions (mm)



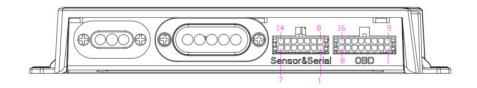
5. Panel interface

Front panel:



Number	Silk screen/Icon	Explanation
1		USB2.0 (Type A), Used for local upgrade

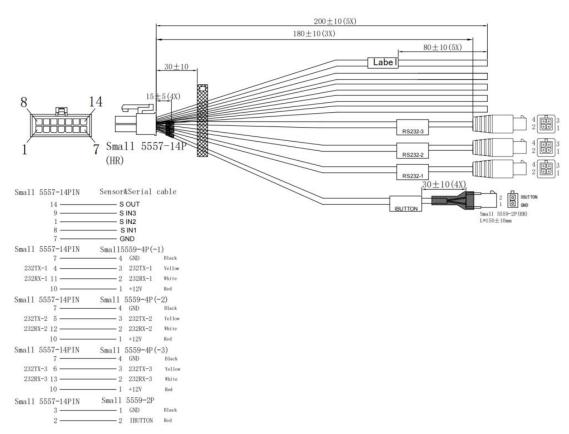
Rear panel:



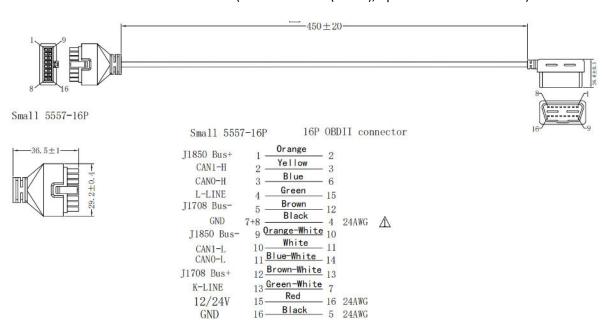
Number	Silk screen/Icon	Explanation
1	Sensor & Serial	External expansion I/O, I-Button and serial.
2	OBD	Connect the vehicle OBD interface
3	(+)	Connect to AD Plus 2.0 and video output
4		Video input and IPC input

6. Definition of external cable interface

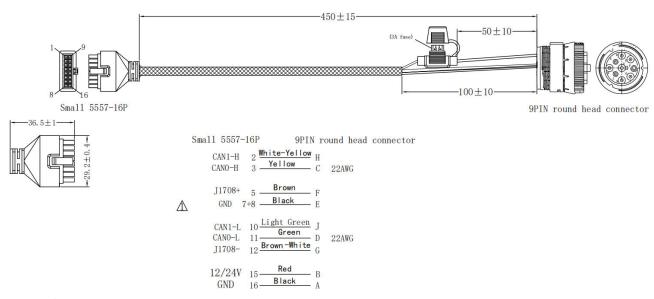
(1) Sensor & Serial, External expansion I/O, I-Button and serial.



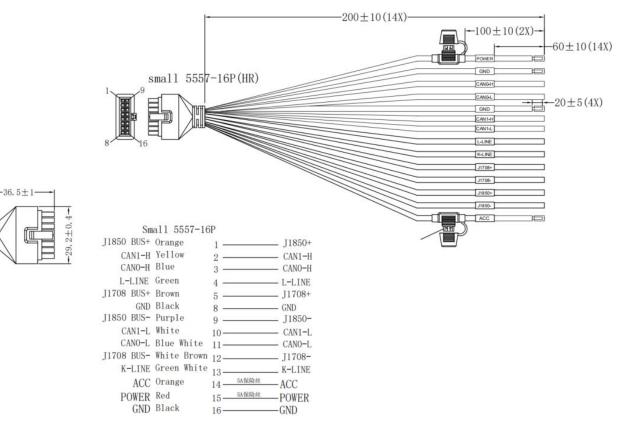
(2) OBD cable interface definition (standard OBD-II(16PIN), optional 9PIN round head)

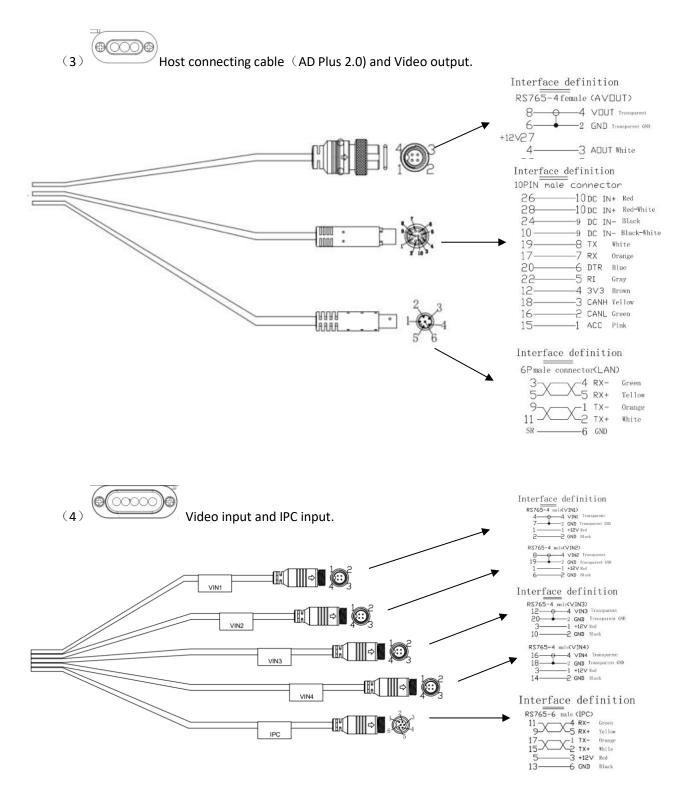


Optional 9PIN wire



Optional wire





7. System connection diagram (Connecting AD Plus 2.0)

