



10.1 Inch Vehicle Android Dispatch Screen

XPAD 5.0 (V1.0)

Specification



Contents

Preface	2
<i>About the Specification</i>	<i>2</i>
<i>Trademark Notice</i>	<i>2</i>
<i>Disclaimer</i>	<i>2</i>
<i>Product Name Explanation</i>	<i>3</i>
<i>Abbreviation Explanation</i>	<i>3</i>
Product Overview	4
<i>Product Introduction</i>	<i>4</i>
<i>Product Features</i>	<i>4</i>
<i>AI Features</i>	<i>5</i>
Specification	6
Product Appearance and Component Names	10
Dimension Diagram	11
System Connection Diagram	12
<i>Cables</i>	<i>13</i>
Special Instructions	15

Preface

About the Specification

All content in this document, including text, images, and graphics, is owned by Shenzhen Streamax Technology Co., Ltd. You may not copy, modify, or use any part of this document without written permission from the company.

This document is intended for authorized users and technical support staff only. Product images and screen content are for reference—actual products may look different in color, size, or design. Please refer to the physical product for accurate details.

The data provided are based on internal lab tests and are for reference only. Actual performance may vary depending on product model, software version, usage, and environment.

Streamax may update or adjust the Specifications from time to time to reflect changes in the product's performance, features, or components, without prior notice.

Trademark Notice

Streamax is a registered trademark of Shenzhen Streamax Technology Co., Ltd. All other trademarks are the property of their respective owners.

Disclaimer

The products in this document are provided "as is" without any warranties, including those for merchantability or fitness for a specific purpose. Streamax is not responsible for any damages, such as loss of profits, data, or documents, caused by using the product or its specifications.

Streamax is not liable for internet-related risks, including hacking, cyber-attacks, or viruses. However, technical support will be provided as needed.

Users must follow all applicable laws when using this product. Streamax is not responsible for misuse or violations of third-party rights.

If there is a conflict between this document and the law, the law will apply.

Copyright © 2025 Shenzhen Streamax Technology Co., Ltd. All rights reserved.

Product Name Explanation

XPAD 5.0 is a 10.1-inch Android display for vehicle dispatching, featuring functions such as business scheduling, video playback, voice announcement, driver attendance, and interconnection of business sensors.

Abbreviation Explanation

Acronym	Full Name
ADAS	Advanced Driver Assistance System
LDW	Lane Departure Warning
HMW	Headway Monitoring Warning
FCW	Forward Collision Warning
PCW	Pedestrian Collision Warning
AVM	Around View Monitor

Product Overview

Product Introduction

The XPAD 5.0, featuring a 10.1-inch Android display for in-vehicle dispatching, is designed to enhance the efficiency, safety, and management value of public transportation operations. Equipped with GPS positioning and 4G connectivity, it meets the daily needs of bus route scheduling and stop reporting. Additionally, XPAD 5.0 employs advanced AI vision recognition technology to proactively alert drivers and external risks, reducing accident rates. Through multi-dimensional data integration and remote visual management, it optimizes dispatch decisions and improves vehicle utilization efficiency. Its highly integrated design simplifies equipment deployment and driver operations, providing comprehensive digital support for fleet management from safety prevention to precision operations. As the core engine for smart public transportation upgrades, it delivers holistic digital solutions.

Product Features

- **Advanced operating system:**
Powered by Android 14, it delivers smoother performance and enhanced system scalability.
- **Humanized interactive experience:**
10.1-inch touch screen, driving dispatching and safety monitoring on one screen, driving management is more efficient.
- **Comprehensive communication options:**
Built-in WiFi, Bluetooth, 4G communication module, with 5G expansion capability, ensuring seamless network connectivity.
- **Extensive peripheral interfaces:**
Supports 8*IO inputs, 2*IO outputs, 2*CAN, 2*RS232, and 2*RS485; enables integration with more vehicle-side services.
- **Rich storage options:**
Supports M.2 SSD and 2 × micro SD cards (up to 512GB), meeting customers' needs for lightweight video recording.
- **Diversified installation and adaptation:**

Compatible with suspension, table, suspension and RAM and other installation methods, flexible to adapt to different vehicles.

- Audio broadcast without interference:

The screen, internal, and external speakers play sounds independently without interference, enabling synchronized station announcements inside the vehicle and external notifications.

- High-definition intercom experience:

With echo suppression algorithm, the communication quality is greatly improved and the communication is smoother.

- Multi-channel video recording:

Integrated dispatch monitoring with 4*AHD and 3*IPC, plus AVM splicing for full coverage inside and outside the vehicle.

- Quick reverse assist:

Display the reverse image within 8 seconds after starting the engine, so as to facilitate quick vehicle moving.

- Passenger service integration:

Directly drives two passenger guidance screens with rich media display effects while saving operation and maintenance costs.

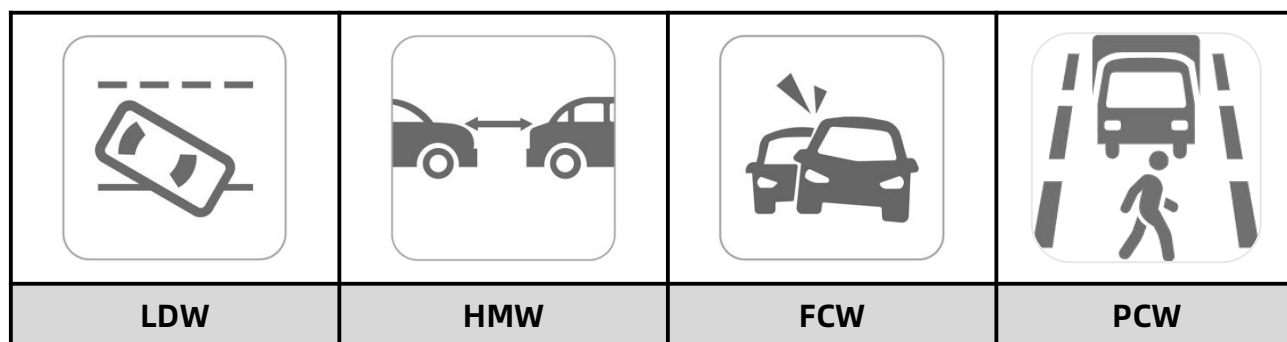
- Open software architecture:

Provides complete SDK interfaces, technical documentation, and examples to meet customers' customization needs.

AI Features

XPAD 5.0 utilizes advanced video analysis technology and machine vision to automatically detect road hazards and unsafe driving behaviors. The system continuously monitors and triggers audio-visual alerts to alert drivers. Furthermore, relevant alarm videos are automatically uploaded to the cloud for real-time monitoring and review.

➤ ADAS Features Diagram



➤ AVM Features Diagram

			
Forward pedestrian warning	Right pedestrian warning	Left pedestrian warning	Backward pedestrian warning

Specification

General	
Model	XPAD5.0
System	Android 14
RAM	4GB
ROM	32GB
Language	Options: Simplified Chinese, English, Spanish (Latin America), Portuguese (Latin America) Default: Chinese (China) , English (Overseas) * Language options include interface language and voice prompts. TTS (Text-to-Speech) only supports Chinese and English
Display Screen	
Size	10.1-inch
Resolution Ratio	1280*720
Touch	Capacitive touch screen
Luminance	650cd/m ²
Contrast Ratio	1000: 1
Viewing Angle	85/85/85/85 (Type) (Left/Right/Top/Bottom))
RFID	 External keyboard support Supports contactless 13.56MHz IC cards (M1/CPU cards)
Video&Audio	
Video&Audio Recording	4*AHD (Compatible with CVBS) , Supports Audio/Video Input 3*IPC (100Mbps, with 12V)

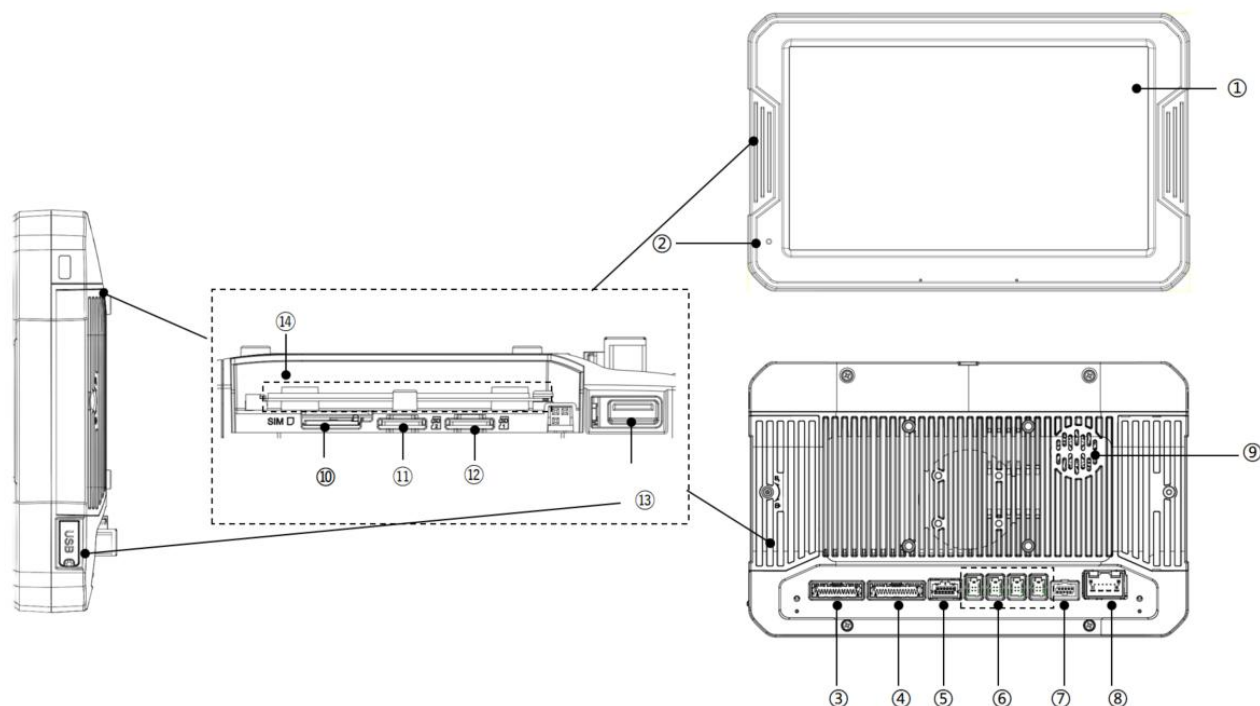
	1*AVM video (Optional, without Audio)
Max. Capability	PAL:4*1080P@25fps(AHD)+3*1080P@25fps(IPC)+1*1080P@25fps(AVM) NTSC:4*1080P@25fps (AHD)+3*1080P@25fps(IPC)+1*1080P@25fps (AVM)
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness
Video Coding	Options: H.264 and H.265 Default: H.264
Audio Compression Standard	Options: ADPCM, G.711, and G.726. Default: ADPCM
Encoding Standard	Options: VBR and CBR. Default: VBR
Microphone	External speaker
Loudspeaker	Built-in 5W/4Ω
Amplifier Output	20W@24V2-channel output, with 20W@24V per channel
Port	
USB	1*USB 3.0 Type A port
CAN	2-channel
LAN	1*10/100/1000Mbps
I/O Port	8*IO_IN, with one channel dedicated for reverse driving 2*IO_OUT, single-channel output 12V@200mA
RS232	2*channel
RS485	2-channel
Pulse Speed	1-channel
Storage	
Micro SD Card	Micro SD card×2, (SDXC 32GB/64GB/128GB/256GB/512GB) Read/write rate: Class 10 or above is recommended
M.2SSD	Supports 128GB/256GB/512GB/1TB/2TB capacity,  SATA interface is supported by default
Sensor	
Six-axis sensor	Supports external G-MOUSE for emergency acceleration, deceleration, turns, and collision detection
Ambient Light	Supports auto and manual screen brightness adjustment

Sensor	
Network	
Wi-Fi	Support 2.4G/5.8G (IEEE.802.11b/IEEE.802.11g/IEEE.802.11n/IEEE.802.11ax)
Bluetooth	Support Bluetooth 5.0
5G Redcap	Obligate
4G	Plug-in SIM card (Nano SIM card), Reserved eSIM patch position, - For North America : LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 - For Latin America : LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8  An industrial SIM card (MP2) is required. The use of a standard SIM card (MP1) is prohibited. We are not responsible for any issues caused by the use of a standard SIM card
Positioning	
GNSS	Supported GPS L1 1575.42MHz GALILEO E1B/C1 GLONASS L1OF 1602MHz SBAS: WAAS, EGNOS, MSAS, GAGAN BEIDOU: B1i+B1c+B2a
Power related	
Power	12V and 24V vehicles (self-adaptive)
Consumption	Typical power consumption (Bare metal) : 10W * The above data are test data obtained in a specific environment in the laboratory, and may vary with the individual product differences, service environment, and testing methods.
Environment	

Operating Temperature	-30°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating Humidity	15~95% non-condensing
Storage Humidity	15~95% non-condensing
Dimensions and Weight	
Dimensions L×W×H	Display Screen: 276 mm×176 mm×42 mm (without support frame); Error: ±1 mm Package: 332 mm×260 mm×133 mm; Error: ±3 mm
Weight	Net weight (device only): 1700g Gross weight (including accessories and package):: 2000g Deviation: ±10g
* The actual dimensions and weight may vary with the individual product differences, manufacturing processes, and testing methods.	
Package Contents	
XPAD 5.0 ×1、G-MOUSE×1、standard power cable×1、T10 ring spanner×1、network adapter cable×1、alarm IO cable×1 * Contents may vary depending on the region and specific requirements	

Product Appearance and Component Names

➤ XPAD 5.0 Front & Side View

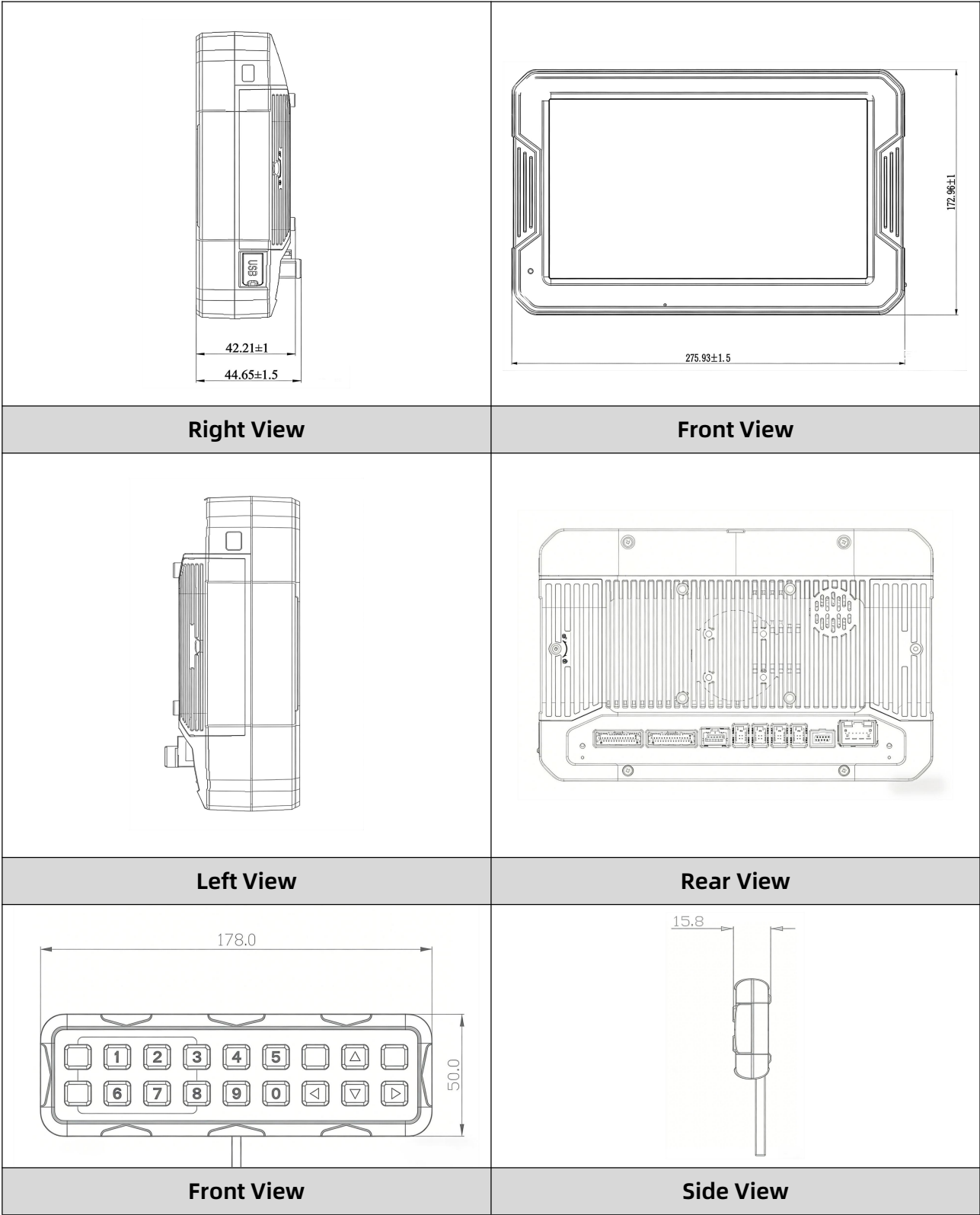


No.	Components	No.	Components
1	10.1-inch Display Screen	8	Power/CAN/Amplifier Output Port
2	Light Sensor	9	Loudspeaker
3	IPC Port	10	SIM Card Slot
4	RS232/RS485/IO Port	11	Micro SD Card1 Slot
5	AVM Port	12	Micro SD Card2 Slot
6	AHD Port	13	USB Type A Port
7	LAN Port	14	M.2 SSD Slot

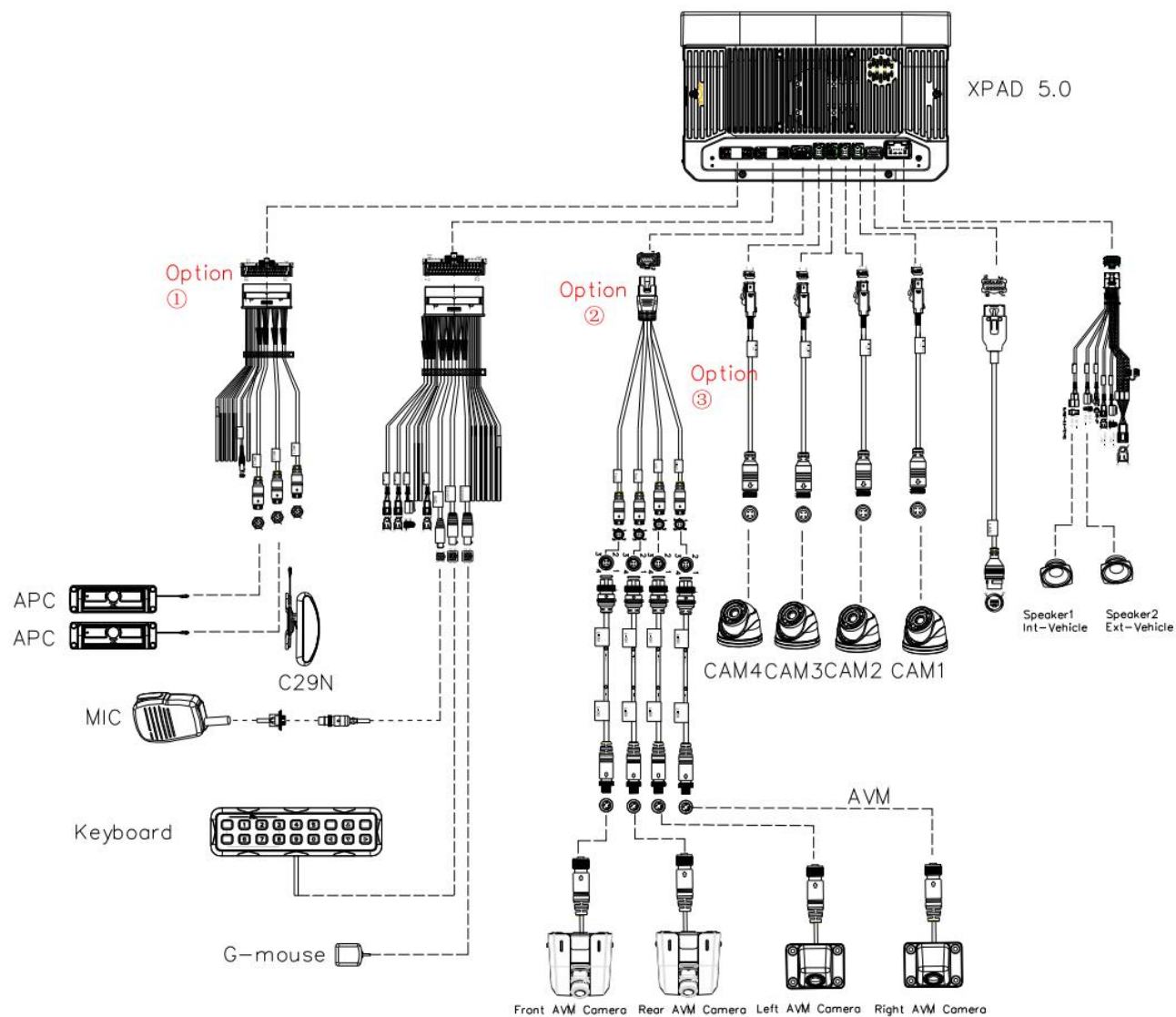
Dimension Diagram

(Unit: mm)

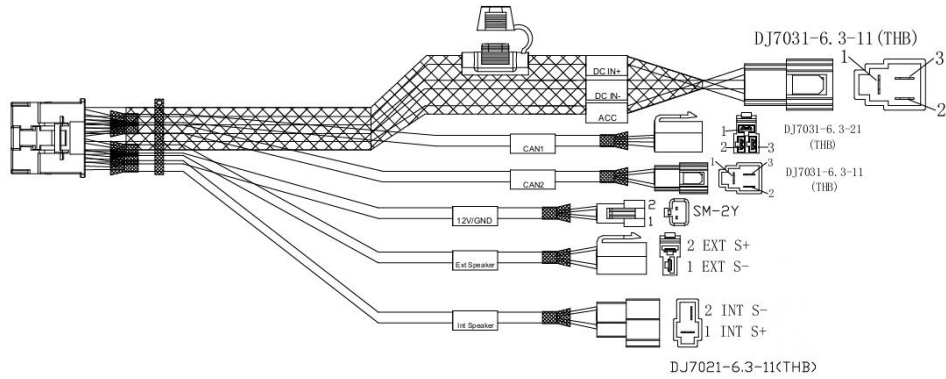
XPAD 5.0:



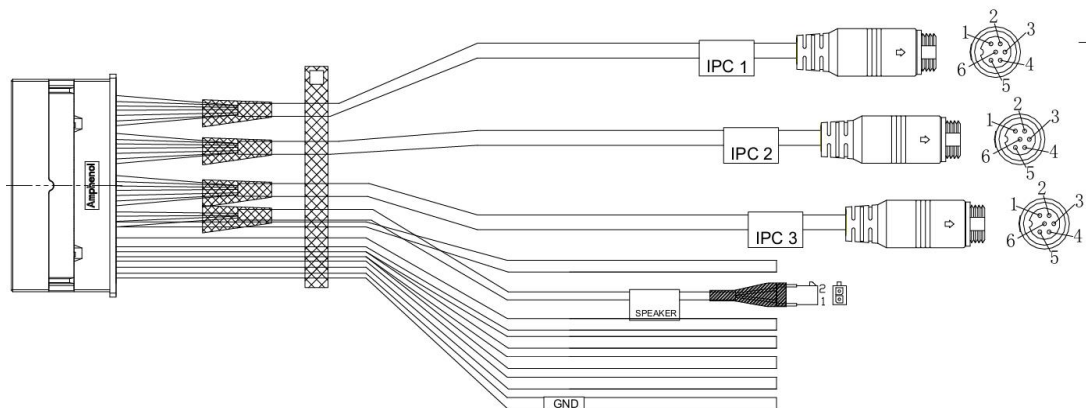
System Connection Diagram



Cables



Standard Power Cable (BOM)

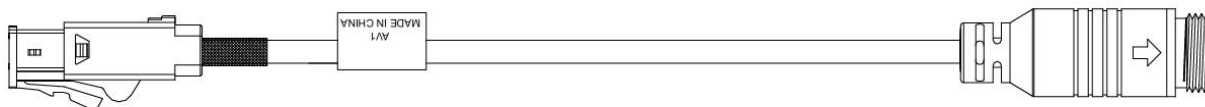


Note

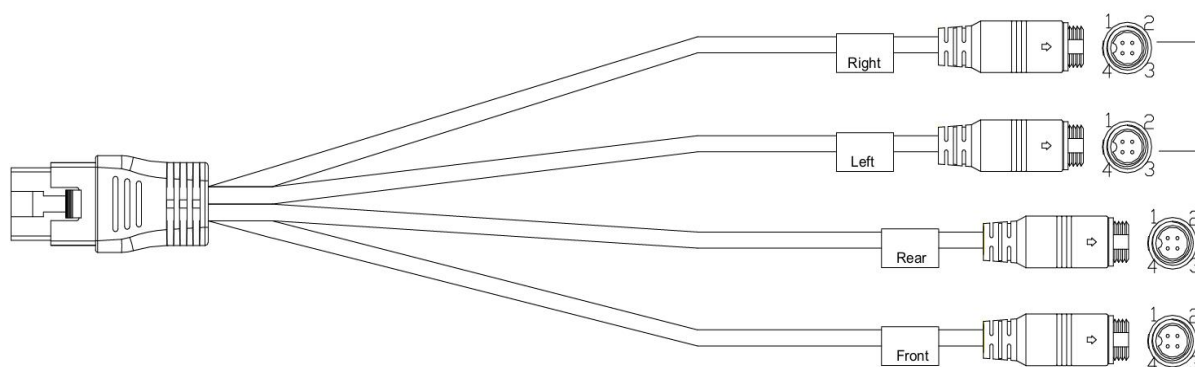
Speaker interface: For embedded installation scenarios, an external speaker is used to broadcast on-screen alerts

Scatter line: Speed IN/Sensor-Out 1/Sensor-Out 2/GND

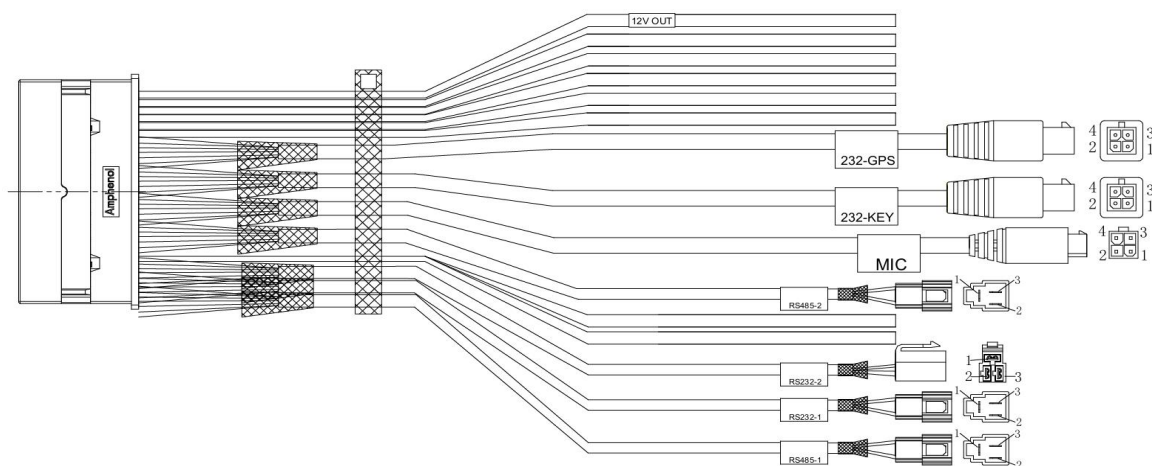
IPC Video Adapter



AHD Video Adapter (Optional)



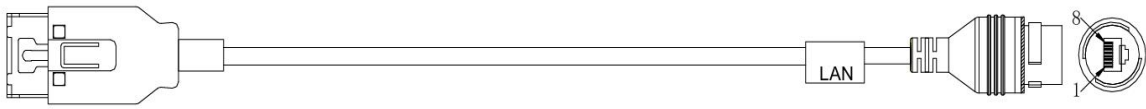
AVM Video Adapter (Optional)



Note

Scatter line: Sensor-In 1~7/Reverse for Fast Back-off/12V OUT/5V OUT

IO/RS232/RS485 Cable



LAN Cable

Special Instructions

- This product requires installation by professionals; otherwise, there is a risk of electric shock, damage to the vehicle wiring, impact on AI performance, and device detachment.
- When used under direct sunlight, the surface temperature of this product may exceed 60°C. Please avoid touching the sun-exposed surface to prevent burns.