Absen X V2
Series User Manual



Shenzhen Absen Optoelectronic Co., Ltd.

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Safety Information

WARNING!

Please read the safety measures listed in this section carefully before installing, powering on, operating, or doing maintenance on this product.

The following marks on the product and in this manual indicate important safety measures.



WARNING! Safety risk! Might cause equipment damage or safety risk.



WARNING! Please read the manual before operating.



WARNING! Dangerous voltage! Might cause equipment damage or electric shock.



WARNING! Hot surface! Do not touch.



WARNING! Flammable!



WARNING! Possible damage to eyes.



WARNING: Be sure to understand and follow all safety guidelines, safety instructions, warnings and precautions listed in this manual.

This product is for professional use only!

This product may result in serious injury or death due to fire hazard, electric shock, and crushing hazard.



Please read this manual carefully before installing, powering up, operating and maintenance of this product.

Follow safety instructions in this manual and on the product. If you have any questions, please seek help from Absen.



Beware of Electric Shock!

• To prevent electric shock the device must be properly grounded during installation, Do not ignore using the grounding plug, or else there is a risk of electric shock.

• During a lightning storm, please disconnect the device's power supply, or provide other suitable lightning protection. If the equipment is not in use for a long time, please unplug the power cord.

• When performing any installation or maintenance work (e.g. removing the fuses, etc.,) make sure to turn off the master switch.

• Disconnect AC power when the product is not in use, or before disassembling, or installing the product.

• The AC power used in this product must comply with local building and electric codes, and should be equipped with overload and ground fault protection.

• The main power switch should be installed at a location near the product and should be clearly visible and easily reached. This way in case of any failure the power can be promptly disconnected.

• Before using this product check all electrical distribution equipment, cables and all connected devices, and make sure all meet current requirements.

• Use appropriate power cords. Please select the appropriate power cord according to the required power and current capacity, and ensure the power cord is not damaged, aged or wet. If any overheating occurs, replace power cord immediately.

• For any other questions, please consult a professional.



Beware of Fire!

• Use a circuit breaker or fuse protection to avoid fire caused by power supply cables overloading.

• Maintain good ventilation around the display screen, controller, power supply and other devices, and keep a minimum 0.1 meter gap with other objects.

• Do not stick or hang anything on the screen.

• Do not modify the product, do not add or remove parts.

• Do not use the product in case ambient temperature is over 55 ℃.







Beware of Injury!

• Warning: Wear a helmet to avoid injury.

• Ensure any structures used to support, fix and connect the equipment can withstand at least 10 times the weight of all the equipment.

• When stacking products, please hold products firmly to prevent tipping or falling.

• Ensure all components and steel frames are securely installed.

• When installing, repairing, or moving the product, ensure the working area is free of obstacles, and ensure the working platform is securely and stably fixed.

• In the absence of proper eye protection, please do not look directly at the lit screen from within a 1 meter distance.

• Do not use any optical devices that have converging functions to look at the screen to avoid burning the eyes.



WARNING: Beware of suspended loads.



LED lamps used in the module are sensitive and can be damaged by ESD (electrostatic discharge). To prevent damage to LED lamps, do not touch when the device is running or switched off.



WARNING: The manufacturer shall not bear any responsibility for any incorrect, inappropriate, irresponsible or unsafe system installation.



Product Disposal

• Any component that has a recycling bin label can be recycled.

• For more information on collecting, reusing and recycling, please contact the local or regional waste management unit.

• Please contact us directly for detailed environmental performance

information.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance

NOTE: This equipment has been tested and found to comply with the limits for a Class A
digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide
reasonable protection against harmful interference when the equipment is operated in a
commercial environment. This equipment generates, uses, and can radiate radio frequen
cy energy and, if not installed and used in accordance with the instruction manual, may c
ause harmful interference to radio communications. Operation of this equipment in a resi
dential area is likely to cause harmful interference in which case the user will be required
to correct the interference at his own expense.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

} -Reorient or relocate the receiving antenna.

} -Increase the separation between the equipment and receiver.

} -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

} -Consult the dealer or an experienced radio/TV technician for help.

RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1. Product Introduction

Absen XV2 series is a new generation of professional-grade 2K all-in-one LED display launched by Absen, with innovative technology and integrated design, redefining the standard of commercial display large screens. The series includes the 136-inch X136 Pro V2, X136 V2 and 163-inch X163 V2 models, which use advanced full-flip COB packaging technology to bring excellent display effects, suitable for conference rooms, exhibition halls and other professional places, with high stability, ultra-high-definition resolution and other characteristics, support plug-and-play and flexible installation. Key features of the product include:

- **Ultra HD resolution:** The resolution of X136 Pro V2 is 2400×1350, and the resolution of X163 V2 is 2304×1296, surpassing the 2K standard, and the details are presented more clearly.
- **High contrast and color performance:** full flip COB technology, 15000:1 high contrast, DCI-P3 color gamut > 90%, support 1.07 billion color display, realistic visual effects.
- **Wide viewing angle and high brightness:** 160° wide viewing angle, 600nit brightness, the picture is still clear under strong light.
- **Ultra-high screen-to-body ratio design:** 5mm ultra-narrow bezel, 98% screen-to-body ratio, visual seamless connection.

- **Quick installation:** modular design, 2 people can complete the installation in 30 minutes, support wall-mounted, mobile bracket installation, flexible adaptation to different space needs.
- **Modular design:** easy transportation, support elevator handling, front maintenance design, no need to reserve additional space for maintenance.
- **Plug and play:** Support a variety of audio and video equipment, compatible with Crestron, Extron and other central control systems.
- **Split screen function:** Support single, two, three, four-screen split screen and picture-in-picture (PiP) mode, and display up to 4 video sources at the same time.
- **24/7 continuous operation:** through strict quality control, to ensure low failure rate, suitable for long-term use.
- **Low power consumption design:** The standby power consumption of the whole machine is <0.3W, which is green and energy-saving.

1.1 Product Specifications

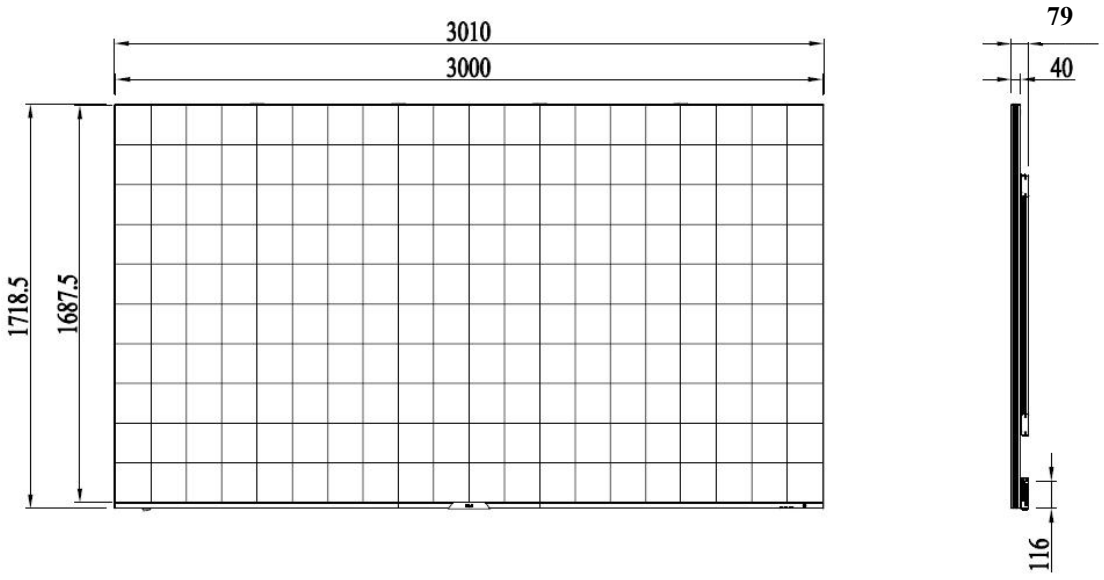
Parameter		X136 V2	X136 Pro V2	X163 V2
Physical Parameters	Display Type	COB	COB	COB
	Size(Inch)	136	136	163
	Pixel Pitch (mm)	P1.56	P1.25	P1.56
	Resolution（dot）	1920*1080	2400*1350	2304*1296
	Display Area（W*H)（mm）	3000*1687.5	3000*1687.5	3600*2025
	Unit Siz（W*H*D）（mm）	3010*1718.5*40	3010*1718.5*40	3610*2056*40
	Package Siz (W*H*D)（mm）	1880*750*840	1880*750*840	2220*750*960
	Net Weight（kg）	115	115	162
	Total Weight (with mounting)(kg)	Wall-mount:133	Wall-mount:133	Wall-mount:185
		Mobile stand:160	Mobile stand:160	Mobile stand:215
Display Parameters	Brightness（nit）	600	600	600
	Contrast Ratio	15000:1	15000:1	15000:1
	Grayscale（Bit）	13	13	13
	Refresh Rate (Hz)	3840	3840	3840
	Color Temperature（K）	6500	6500	6500
	Viewing Angle(H/V)(°)	160/160	160/160	160/160
Electrical Parameters	Power Supply	AC 100-240V,50/60Hz	AC 100-240V,50/60Hz	AC 100-240V,50/60Hz
	Standby Power（W）	＜0.3	＜0.3	＜0.3
	Average Power（W）	500	530	700
	Max Power（W）	1500	1580	2100
	Main Power Cables	2	2	2
Interfaces	Control Interface	RS232*1（RJ45）	RS232*1（RJ45）	RS232*1（RJ45）
	I/O Interfaces	HDMI IN2.0*2，HDMI IN 1.4*2，USB2.0*1（Commissioning），Audio Out*1	HDMI IN2.0*2，HDMI IN 1.4*2，USB2.0*1（Commissioning），Audio Out*1	HDMI IN2.0*2，HDMI IN 1.4*2，USB2.0*1（Commissioning），Audio Out*1
Application Param	Operating Temp（℃）	-10℃～40℃	-10℃～40℃	-10℃～40℃
	Operating Humidity	10～80%RH	10～80%RH	10～80%RH

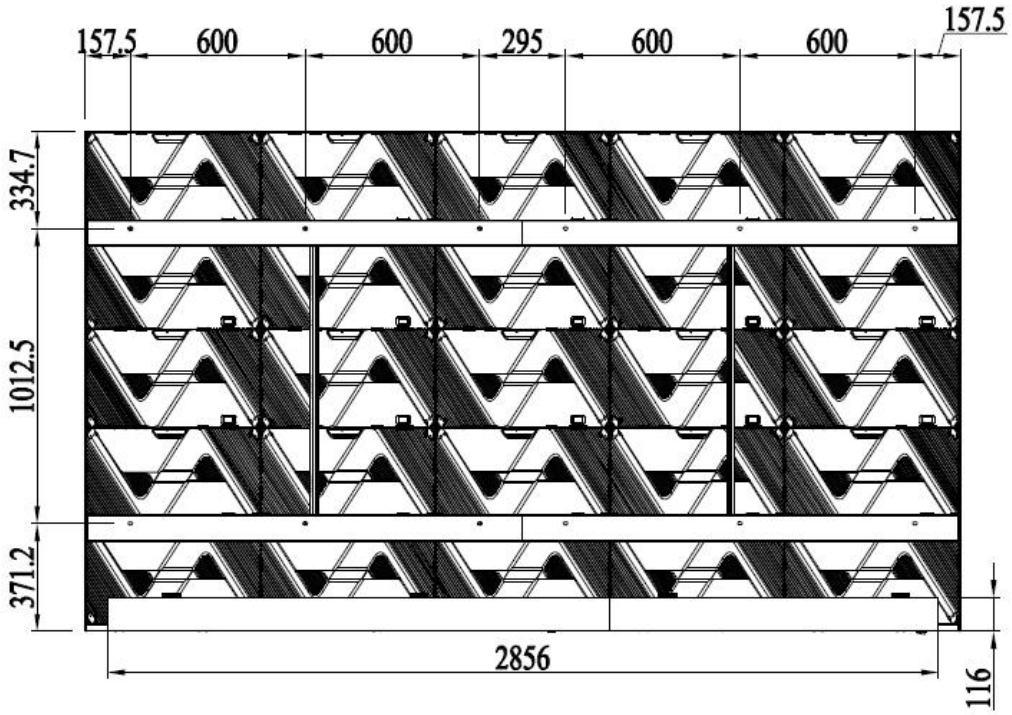
eters	（RH）			
	Storage Temp（℃）	-40℃～60℃	-40℃～60℃	-40℃～60℃
	Storage Humidity（RH）	10%～85%	10%～85%	10%～85%
	Protection Level	IP54（Panel surface）	IP54（Panel surface）	IP54（Panel surface）
	Maintenance	Front maintenance	Front maintenance	Front maintenance
	Certifications	CCC,CE,FCC,ETL,UKCA,RoHS,Energy Saving	CCC,CE,FCC,ETL,UKCA,RoHS,Energy Saving	CCC,CE,FCC,ETL,UKCA,RoHS,Energy Saving
Accessories	Standard Accessories	Wall mount，Spare parts(Module*6, 3-in-1 HUB board*1, 5m HDMI cable1)	Wall mount, Spare parts (Module*6, 3-in-1 HUB board1, 5m HDMI cable1)	Wall mount, Spare parts (Module*8, 3-in-1 HUB board1, 5m HDMI cable1)
	Optional Accessories	Mobile stand	Mobile stand	Mobile stand
		Casting box	Casting box	Casting box
		miniPC	miniPC	miniPC

Note: The power will fluctuate within the range of ±15%, depending on the brightness of different batches of lights, subject to the actual situation.

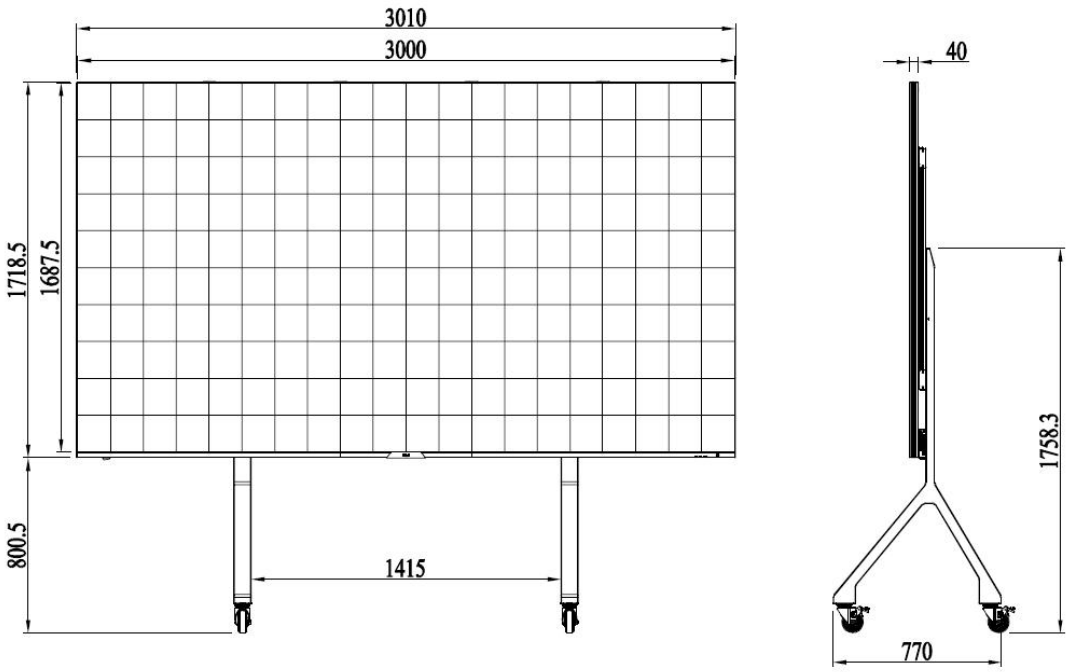
1.2 Screen size drawing

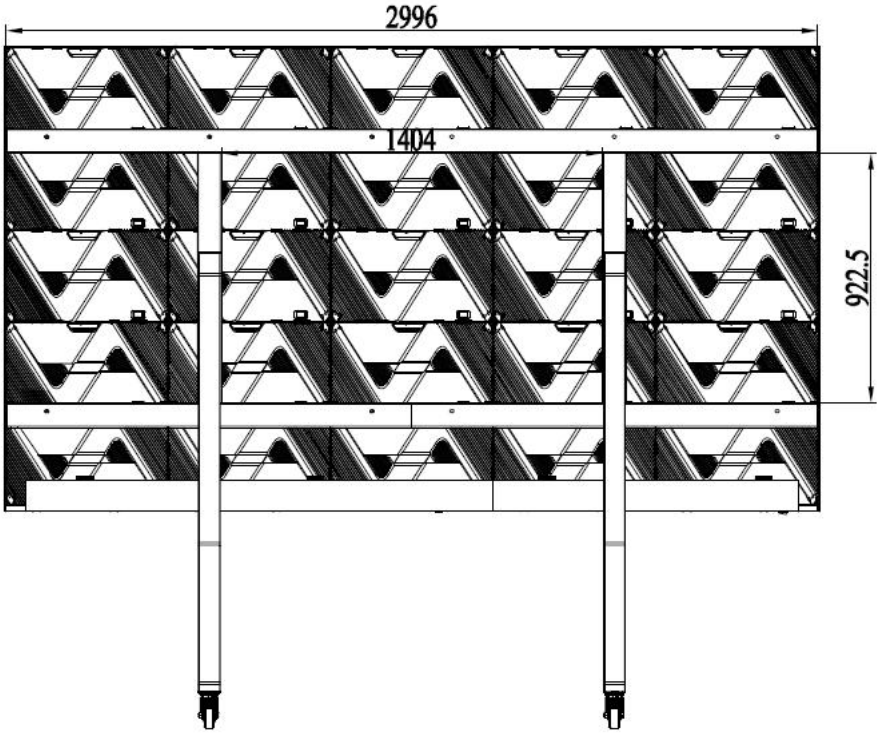
1.2.1 X136 V2 Screen wall-mounted dimension drawing(mm)



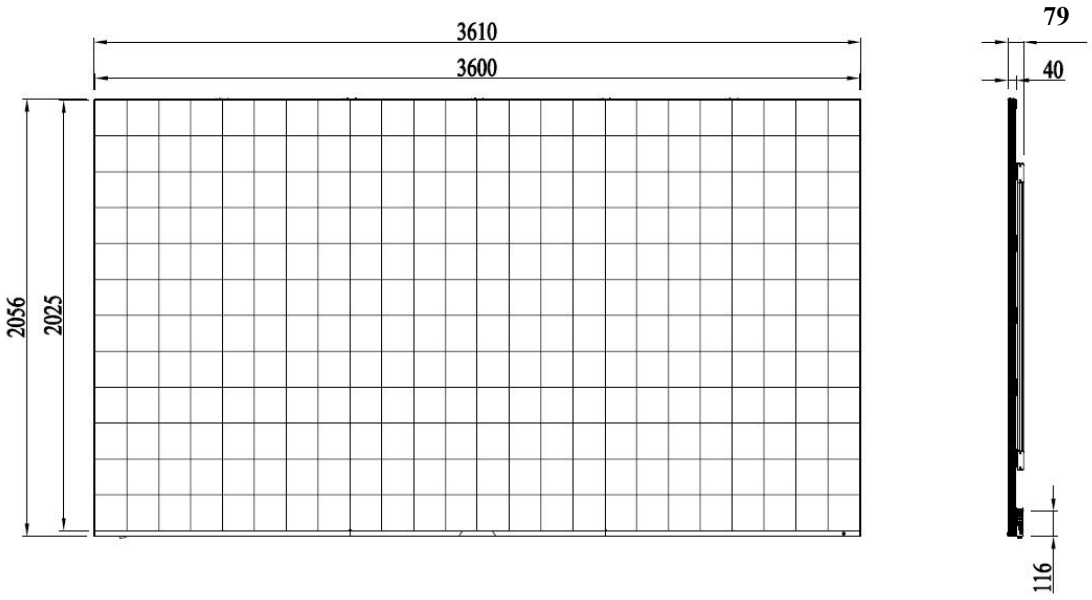


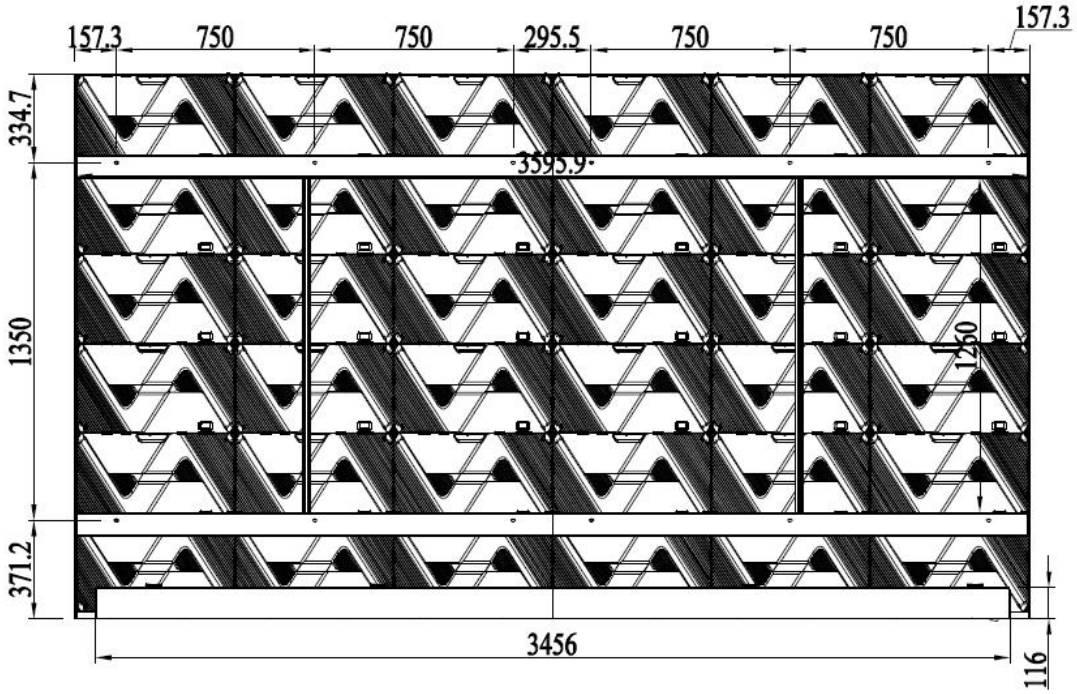
1.2.2 X136 V2 Screen mobile bracket dimension drawing(mm)



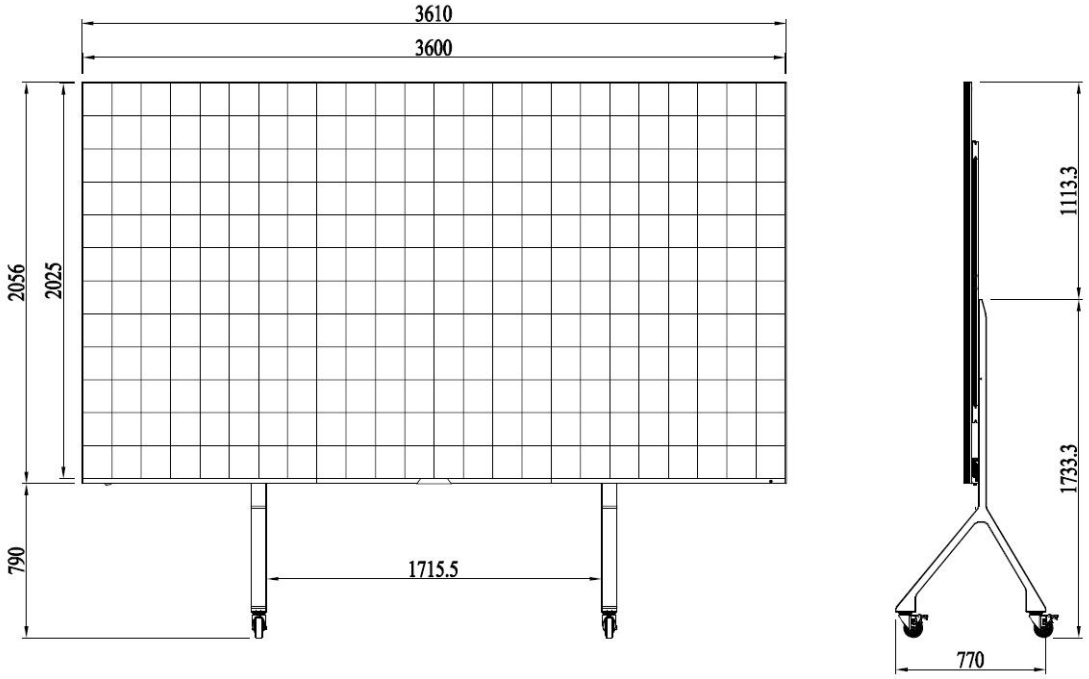


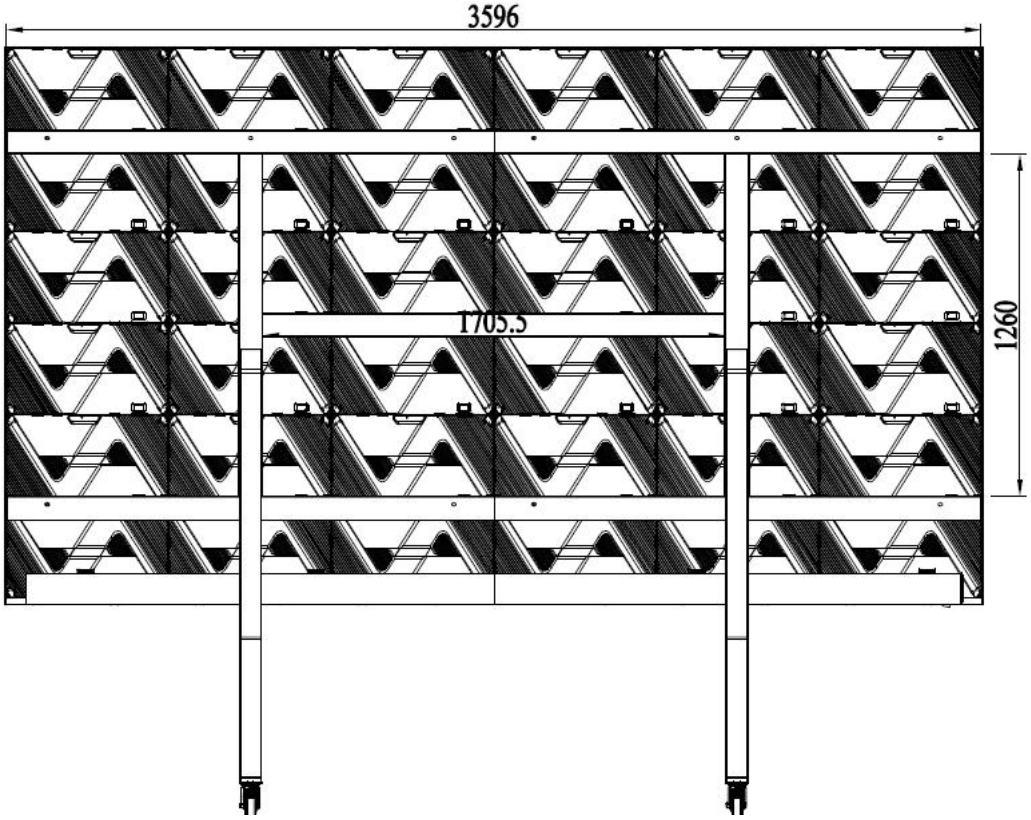
1.2.3 X163 V2 Screen wall-mounted dimension drawing(mm)





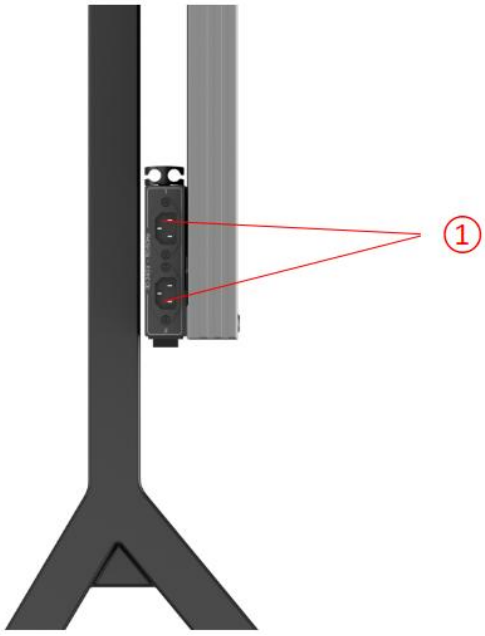
1.2.4 X163 V2 Screen mobile bracket dimension drawing(mm)



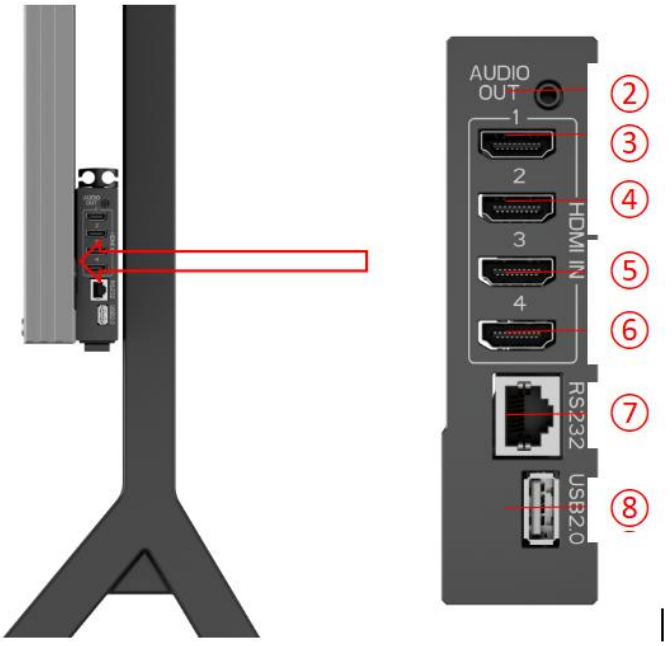


1.3 Interface description

Left rear

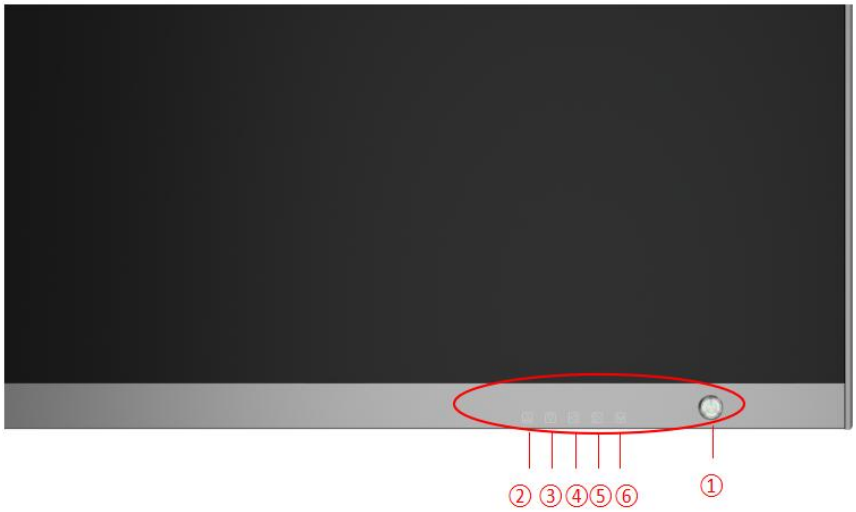


Right rear



No.	The name of the interface	Description
1	AC Power Input	Main power input 100~240V~50/60Hz
2	AUDIO OUT	3.5mm audio jack for connecting headphones, active speakers, etc.
3	HDMI IN1	HDMI 2.0 port supporting up to 4K@60Hz UHD video transmission
4	HDMI IN2	HDMI 2.0 port supporting up to 4K@60Hz UHD video transmission
5	HDMI IN3	HDMI 1.4 port supporting up to 4K@30Hz video transmission
6	HDMI IN4	HDMI 1.4 port supporting up to 4K@30Hz video transmission
7	RS232	Control interface for receiving RS232 commands
8	USB2.0	Configuration port for USB flash drive updates and sending card debugging

1.4 Button description



No.	Button	Basic Function	Shortcut Function
1	Power	Power On/Off	/
2	←	Menu Left/Back	Brightness +
3	→	Menu Right/Confirm	Brightness -
4	↑	Menu Up	Scene Mode Switch
5	↓	Menu Down	Input Source Switch
6	Menu	Enter/Exit Menu	/

*Note: After entering the Menu menu, the shortcut function is invalid.

1.5 Power Indicator Description

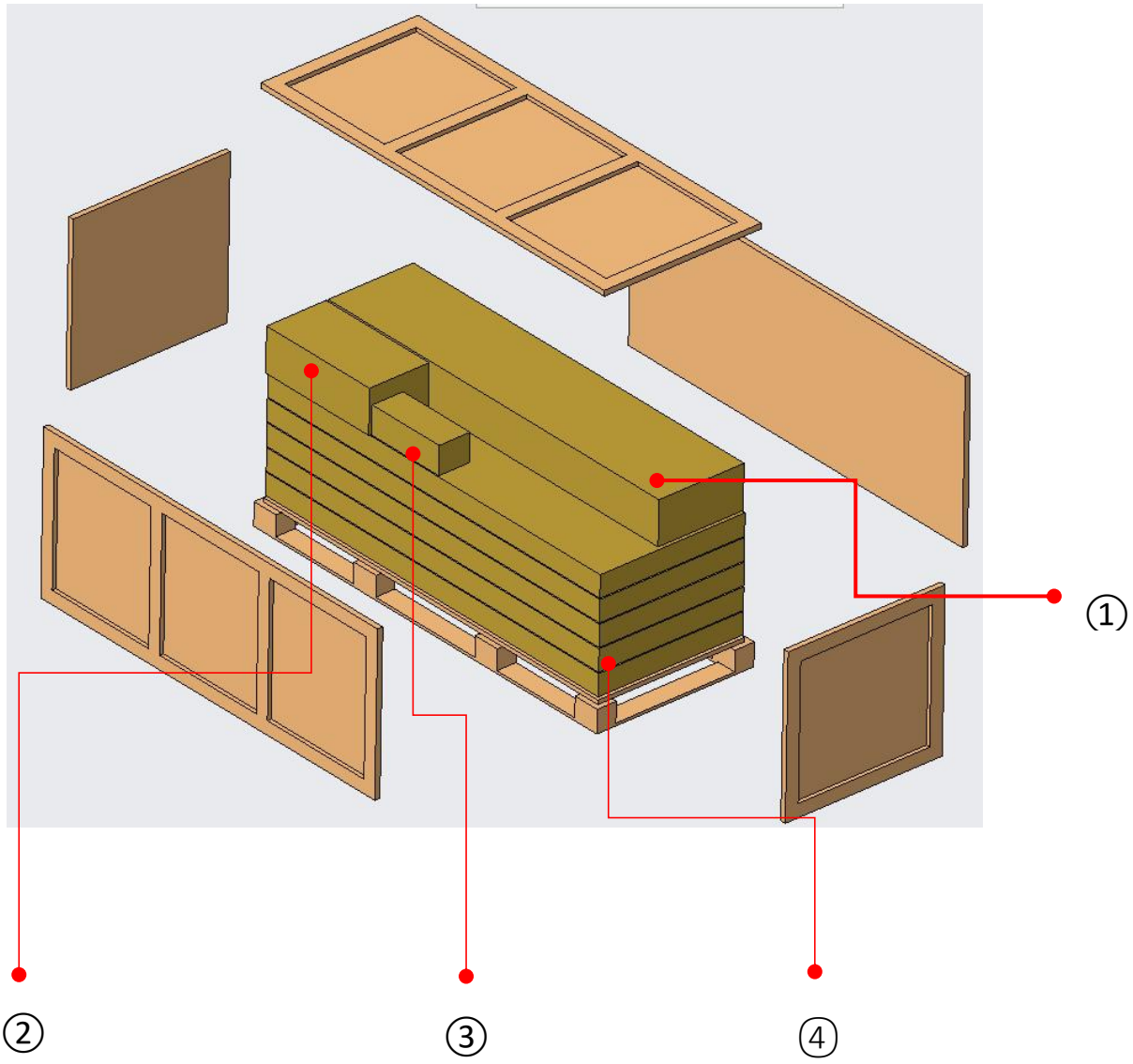
The Power button has different color states in different working states：

Status	Description
Off	Power Off
Red Light	Standby Mode
Blue Light	Operating Mode

2. Packaging Instructions

2.1 X136 V2 standard package

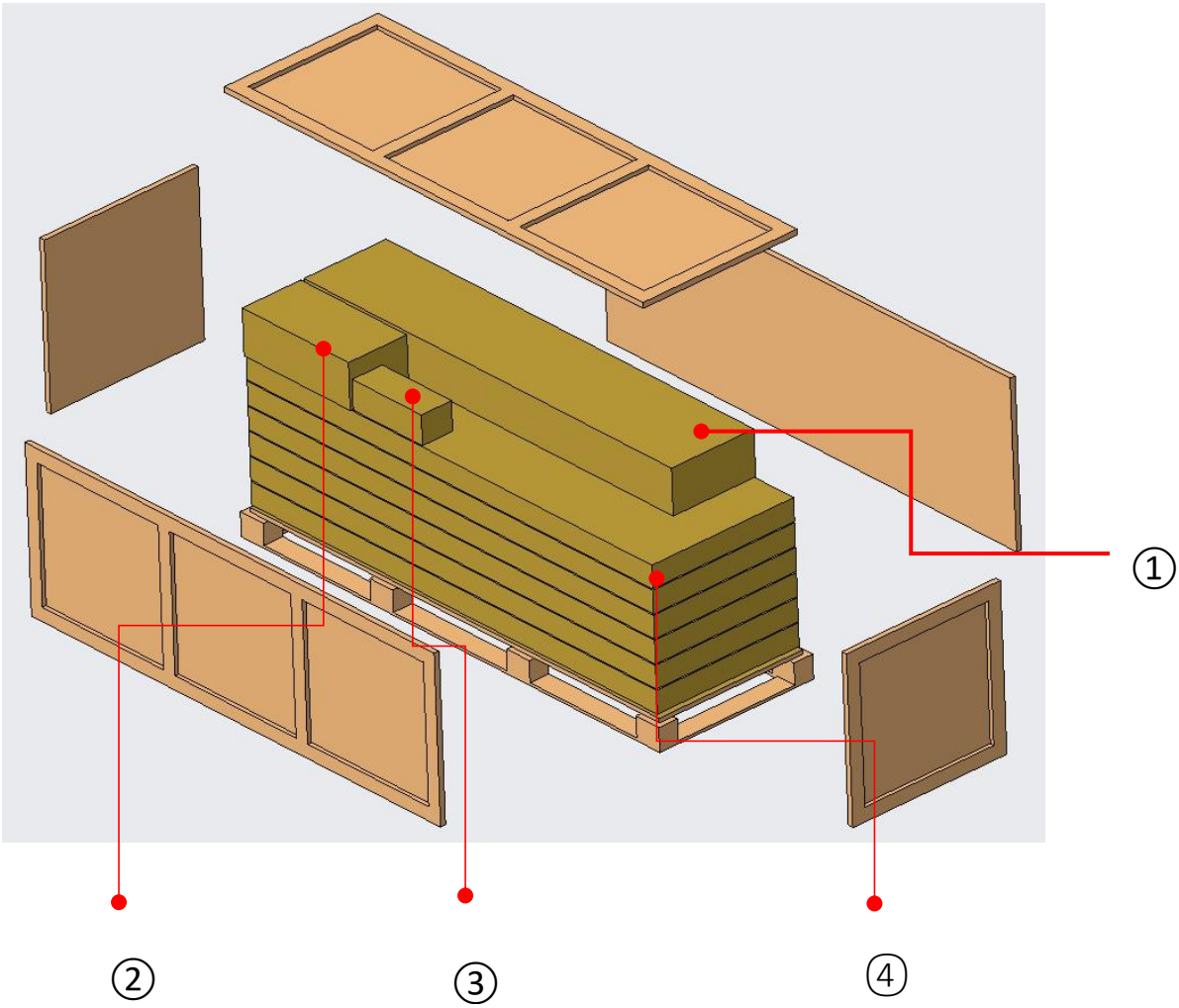
The standard packaging of X136 V2 is packed in a wooden case, the outer box size is 1880*750*840mm, and the wooden box contains all the components of the product:



No.	Type	Material List	Qty	Dimensions
1	Accessory Kit	Includes control back box, wall-mount bracket, bottom cover plate, installation tools, etc.	1	1790*395*190mm
2	Spare Parts Kit	Includes modules, HUB, inter-box Ethernet cable, inter-box power cable, and other key spares.	1	560*280*195mm
3	Cable Kit	Includes main AC power cord.	1	365*145*125 mm
4	Module Box	Contains 1×5 cabinet units (with pre-installed modules)	5	1820*775*97mm

2.2 X163 V2 standard package

The standard packaging of X163 V2 is packed in a wooden case, the outer box size is 2220*750*960mm, and the wooden box contains all the components of the product:



No.	Type	Contents	Qty	Dimensions
1	Accessories Kit	Includes control back box, wall mount bracket, bottom cover plate, installation tools, etc.	1	1850*415*190mm
2	Spare Parts Kit	Includes modules, HUB, inter-cabin Ethernet cable, inter-cabin power cable, and other key spare parts.	1	560*280*195mm
3	Cables Kit	Includes main AC power cord.	1	365*145*125 mm
4	Cabinet Package	Contains 1×6 cabinet units (with pre-installed modules).	6	2157*775*97mm

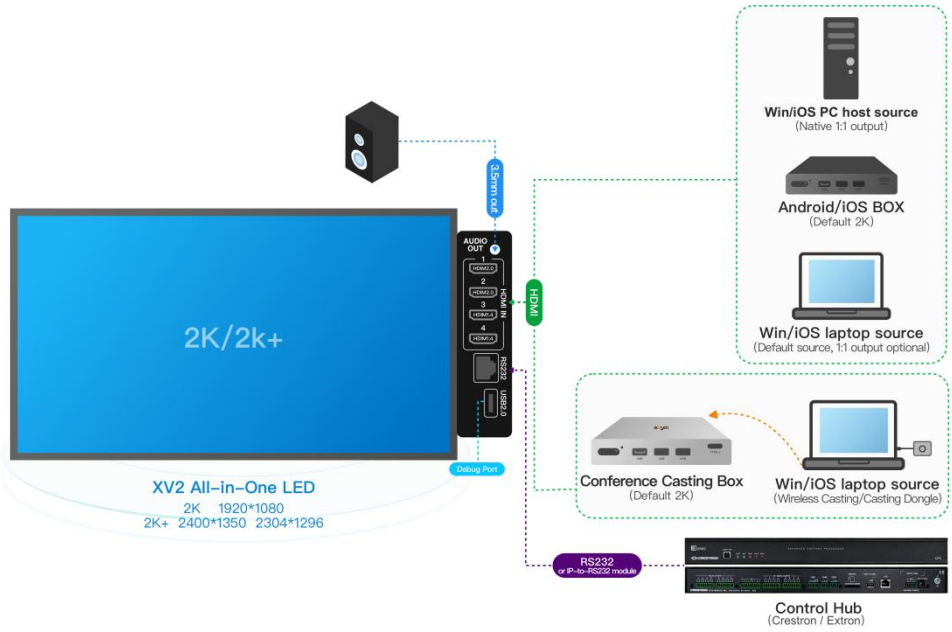
3. XV2 User Guide

3.1 Boot operation

Use the power cord provided with the device to connect the XV2 All-in-One to a stable 100V-220V, 50/60Hz power socket, and turn on the boat-shaped power switch on the lower left of the control box to complete the power-on. Wait for about 20S, when the "Absen" logo appears on the screen and the power indicator lights up blue, the device has been started normally and can be used.

3.2 Peripheral access instructions

X V2 provides 4 HDMI video input interfaces, 1 3.5mm audio output interface, and 1 RS232 central control interface, which is convenient and quick to access standard HDMI hosts, speakers and central control equipment, and can be quickly displayed when connected to video signal sources.



3.3 Screen-off and power-off operations

- Screen-off operation: When the device is in normal working condition, short press the Power button, the device screen will go off, and the device will enter the screen-off state. When the screen is off, the screen can be quickly woken up when the HDMI signal source is connected or the Power button is short-pressed again.
- Shutdown operation: Press and hold the Power button for more than 3s, after prompting "Shutdown", the device will enter the shutdown state, and you can short press the Power button to wake up.

*Precautions: During the operation of the equipment, please do not switch on and off frequently, so as not to affect the service life of the equipment; If you need to turn the device on again after power off, it is recommended to wait for more than 30 seconds for the device to complete the internal circuit reset.

3.4 Power-off operation

When the equipment is not suitable for a long time or needs to be turned off, the main power switch can be cut off by turning off the boat-shaped switch at the bottom left of the control box.

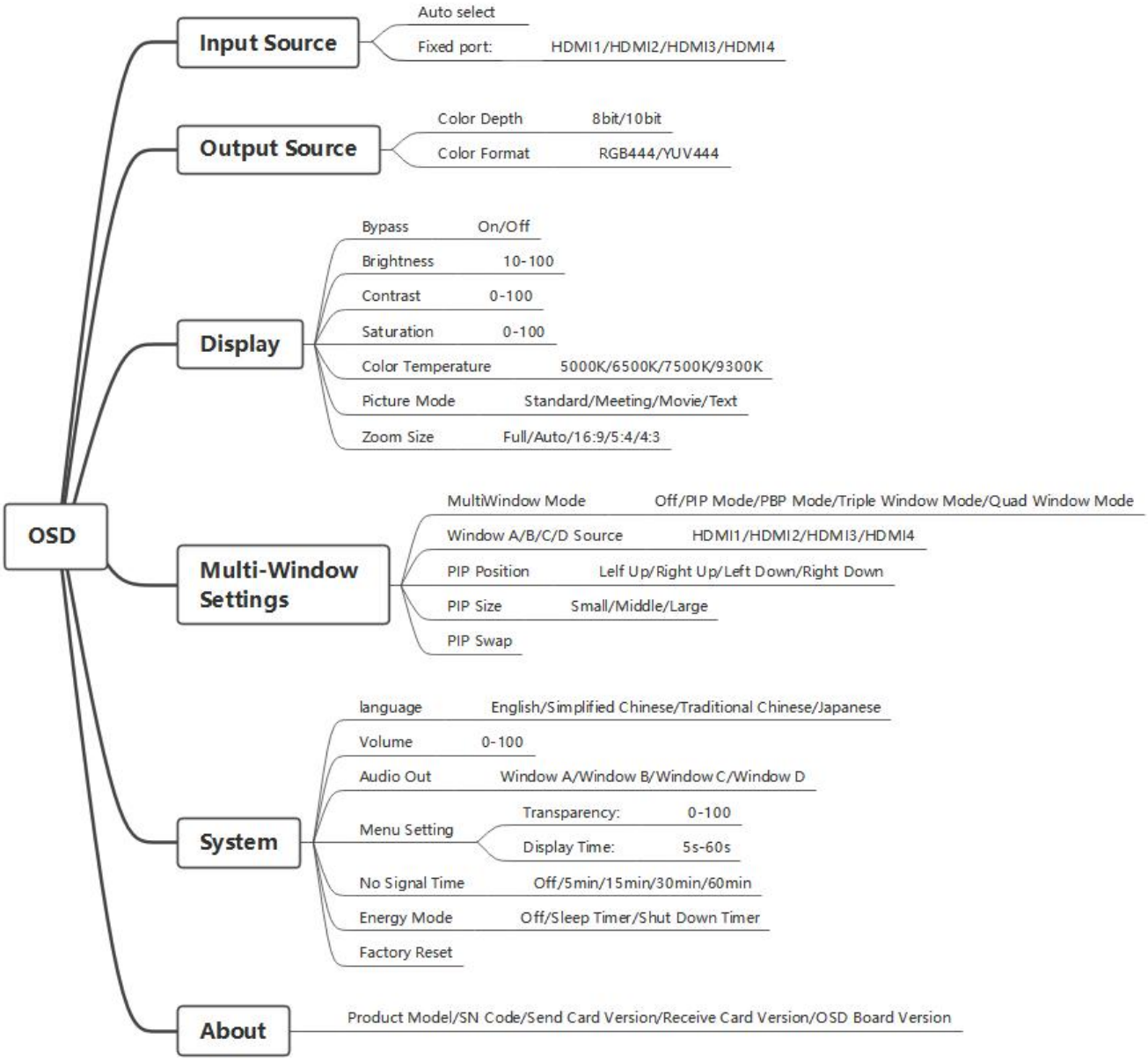
3.5 Introduction to the OSD menu function

The On-Screen Display Menu (OSD) is a function of the X V2 product, which allows users to adjust the display effect of the device and select the corresponding functions through the on-screen menu window. Users can call the OSD menu through the Menu button of the keypad, and the main functions of the OSD are:

- Input source settings: can be automatically selected, with HDMI1 - HDMI4 and other fixed interfaces.
- Output source settings: support bit depth 8bit/10bit, color format RGB444/YUV444.
- Display settings: covering brightness, contrast and other general adjustments, there are a variety of color gamuts, scene modes, and the image ratio can be adjusted as needed.
- Multi-window settings: Multi-window mode selection and PIP (picture-in-picture) related settings can be performed.
- System settings: Audio settings such as volume and audio output, as

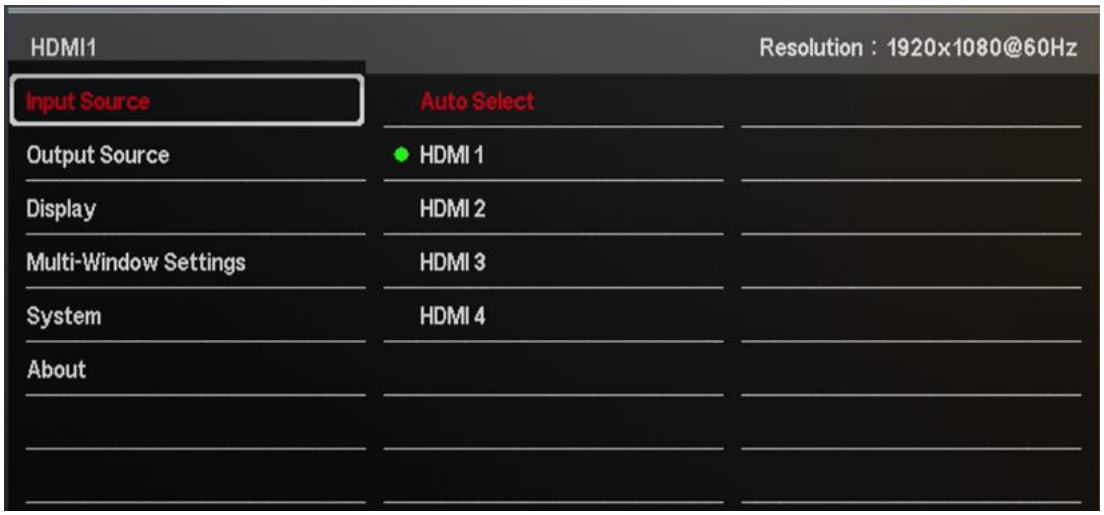
well as system settings such as image settings and screensavers without signal.

- About: Contains relevant information such as product model and version. It is widely used in display scenarios such as monitoring, advertising machines, and industrial control, and is used to achieve flexible screen display and information overlay functions.



3.5.1 Input source settings

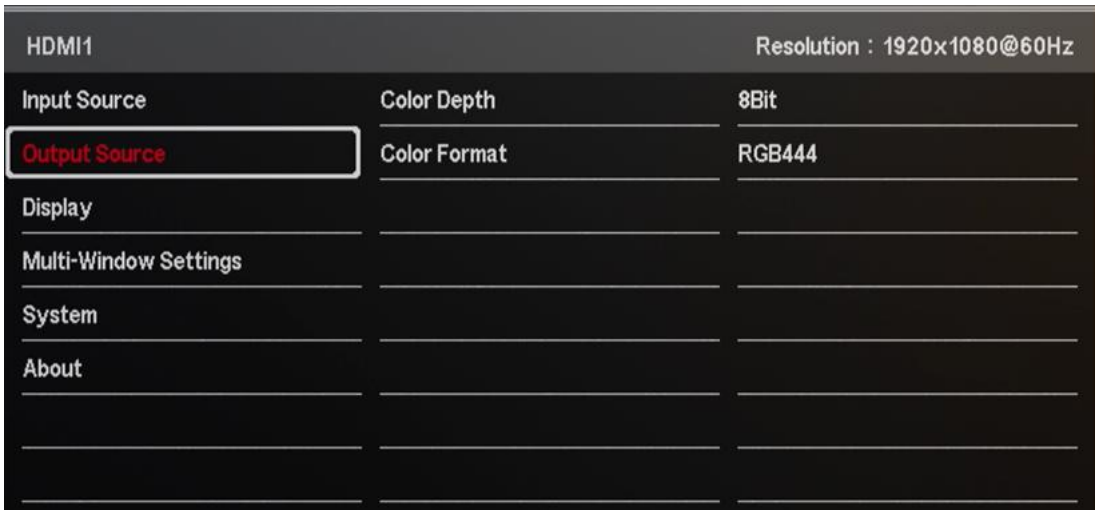
Used to select the input source of the device, and switch between multiple connected input source interfaces to ensure that the device receives the correct signal.



- Automatic selection: Plug and play functions can be realized.
- HDMI1 and HDMI2 are 2.0 interface standards.
- HDMI3 and HDMI4 are 1.4 interface standards.

3.5.2 Output source settings

Support the selection of bit depth and color, users can adjust the appropriate bit depth and color mode according to their own needs and display content to achieve the ideal display effect.



- Bit depth: 8 bit and 10 bit are available, and the default value is 8 bit.
- Color format: including RGB444 and YUV444 formats, default value: RGB444.

3.5.3 Display settings

Provide a variety of image display effect options, such as brightness, color temperature, contrast, saturation and other adjustment functions, users can optimize the image display effect according to the actual viewing environment and personal preferences.



- Bypass: directly transmits the input signal, without going through any image processing algorithms (such as scaling, noise reduction), default value: on.
- Brightness: The adjustment range is 10-100, the default value: 40.
- Contrast: The adjustment range is 0-100, the default value: 50.
- Saturation: The adjustment range is 0-100, the default value: 50.
- Color temperature: contains four modes, 5000K, 6500K, 7500K, 9300K, default value: 6500K.
- Scenario mode: There are four scenario modes, namely standard, meeting, theater, and text, and the default value: text.

Standard: Balances brightness, contrast, and color for everyday work.

Meetings: Improves text clarity and reduces dynamic range (suitable for projection environments).

Cinema: Enhances contrast and color depth for movie viewing.

Text: Optimize the sharpness of font edges, reduce reflections, and be suitable for long readings.

- Standard: Balances brightness, contrast, and color for everyday work.
- Meetings: Improves text clarity and reduces dynamic range (suitable for projection environments).
- Cinema: Enhances contrast and color depth for movie viewing.
- Text: Optimize the sharpness of font edges, reduce reflections, and be suitable for long readings.

- Image Ratio: Adjust the screen ratio to full screen, custom, 16:9, 5:4 or 4:3, default value: full screen.

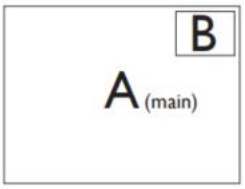
3.5.4 Multi-window setup

Support for selecting multi-window playback mode, users can divide the screen into multiple windows, and display the content of different input sources at the same time to meet the needs of multi-task display.

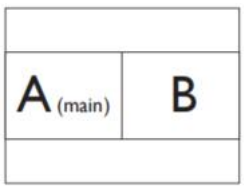


- Multi-window mode: There are five modes, which are off, PIP mode, PBP mode, three-screen mode, four-screen mode, default value: off (single-screen mode).

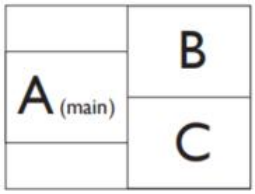
PIP ：



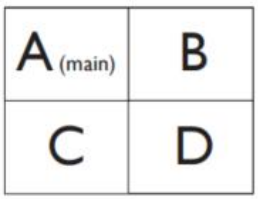
PBP ：



Three-screen split：



Four-screen split：



- Window A//B/C/D Signal Source: Select the signal input source from HDMI1/HDMI2/HDMI3/HDMI4 four signal sources.
- PIP Position: Adjust the position of the sub-window: top right, top left, bottom right or bottom left. (Available only in PIP mode).
- PIP Size: Adjust the size of the picture-in-picture: small, medium, or large. (Available only in PIP mode).
- PIP Switching: Switch the input source of the main window and the sub-window. (Available only in PIP mode).

Multi-Window Mode		Sub-Windows			
	Iput sources	HDMI 1	HDMI 2	HDMI 3	HDMI 4
Main Window	HDMI 1	●	●	●	●
	HDMI 2	●	●	●	●
	HDMI 3	●	●	●	●
	HDMI 4	●	●	●	●

3.5.5 System settings



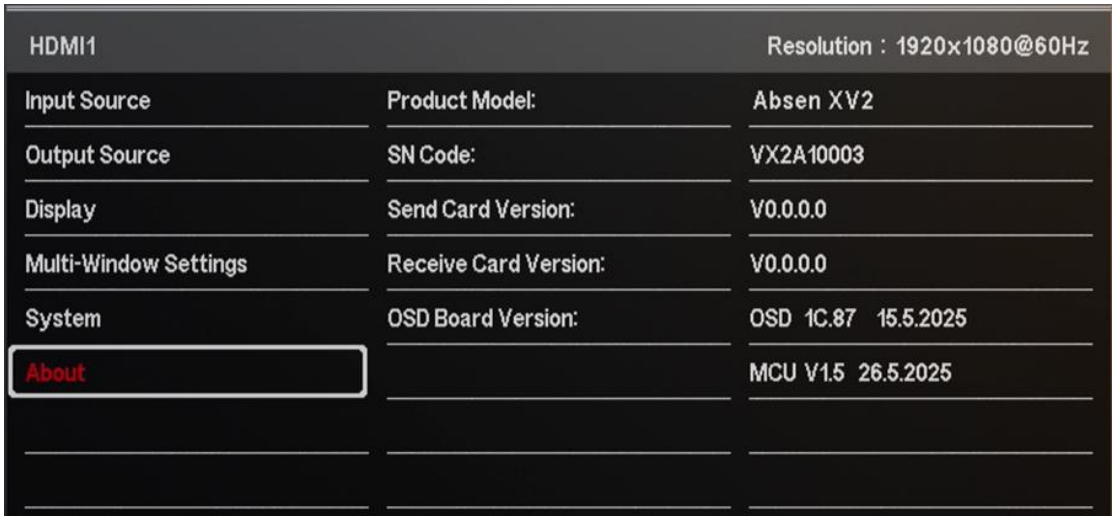
- Language: There are 4 languages to choose from, namely Chinese Simplified Chinese, Chinese Traditional, English, Japanese, and English by default.
- Volume: Adjust the audio output volume of the video source, the range is 0-100, the default value: 60.
- Audio output: In multi-window mode, select the video source window of audio output from Window A/Window B/Window C/Window D, the default main window A.
- Menu Setting: Provide transparency adjustment function and menu display time adjustment function.
- Transparency: Adjust the range from 0-100, from opaque to transparent, default value: 0.
- Display time: Adjust the display time of the menu between 5S-60S, default value: 15s.
- No signal hibernation: Customize the time when the device enters the sleep state (screen off), there are five options, which are off, 5min,

15min, 30min and 60min, and it is off by default.

- Energy saving settings: Provide three options, off, timed screen off and timed shutdown, default off. After selecting a scheduled screen off or scheduled shutdown, you can select the time from four options: 5min, 15min, 30min, and 60min, with the default being 15min.
- Factory Reset: Restore all settings to the default state of the device when it leaves the factory, and the device will restart after the factory reset.

3.5.6 About

By obtaining the version information of the sending card, receiving card, control card, etc., you can know the current software configuration of the device, judge whether it is the latest or applicable version, and grasp the basic operation status of the device.



3.5.7 Device information

The lower part of the OSD menu bar displays information about the device, including the product model, single running duration, and total running duration.

- Single Running Duration: indicates the time of the last continuous operation of the device.
- Total Running Time: Reflects the total usage time of the device from the time it was enabled to the present.



4. Maintenance & Troubleshooting

4.1 Common faults

This section lists the common problems during equipment operation and provides the basic ideas and methods for troubleshooting. If you still can't solve the problem after following the instructions, please contact Absen after-sales service system for help.

Issue	Troubleshooting Steps
Black Screen/No Display	1. First of all, check whether the Power button indicator is blue normally, and make sure that the screen is in normal working condition. 2. Observe whether the OSD menu can be brought up by pressing the "M" menu key 3. Restart the device after powering off, and observe whether there is an "Absen" startup logo
"NO SIGNAL" Message	1. Observe whether the HDMI source of the external device has been effectively connected, such as replacing the external device and the HDMI cable

	2. Press the "M" menu key to bring up the OSD menu to enter the "Input Source", and check whether the source access of the external device is consistent with the setting input port.
Unresponsive Buttons	1. Check whether the button board has been effectively inserted into the OSD control board. 2. Observe whether the green indicator of the OSD board flashes. 3. Replace the button board with a new one.
Abnormal Colors	1. Press the "M" menu key to bring up the OSD menu, enter the "Display" interface, observe whether the indicators are normal in the scenario mode, and adjust whether it is valid. 2. Replace the external source device to observe whether it is normal.
Partial Image Loss	1. Please check whether the network port connection line between the boxes is abnormal. The receiving card is abnormal.
Screen Flickering	1. Whether the lamp board has not been energized for a long time and causes moisture. The receiving card is faulty.

4.2 Precautions for LED protection

The small-pitch LED all-in-one machine is a high-precision, high-density electronic product, which belongs to the precision protection product. Special protection is required in daily use, such as protection against static, dust, moisture and physical shock.

1) Static electricity: LED is an electroluminescent device that is very sensitive to electric current. The human body carries static electricity that may break down the internal PN junction. Do not touch the LED display when you are not wearing gloves.

2) Dust: The surface of the LED display is designed in accordance with the indoor IP4X standard, but the inside of the cabinet contains

high-density electronic circuits. Therefore, it is necessary to dust proof and regularly clean the LED display to ensure the normal operation of the display.

3) Water vapor and oil smoke: Humid environment and water vapor can easily cause damage to the electronic components inside the display, which may lead to product failure, and in the worst case, it may even cause a fire and burn the LED display. Therefore, the LED display needs to be moisture-proof and waterproof to avoid oil smoke and water vapor from directly entering the LED display.

4) Physical impact: LED display is a very delicate device. It needs to be protected from any form of physical shock, as this could damage the LED beads or the internal circuitry of the display.

4.3 Precautions for daily use of LED display

Equipment placement and environmental requirements:

1) Environmental conditions: The LED all-in-one machine should be placed in a dry, clean and well-ventilated environment, and at the same time, the equipment should be protected from direct sunlight. The ambient temperature should be strictly maintained between 18° C and 25° C, which helps to maintain the stable operation of the equipment and prolong the service life.

2) The display screen is anti-liquid ingress: It is strictly forbidden to place any container with liquid on the display screen to prevent the liquid from accidentally spilling and damaging the product.

3) Air conditioning conditions: The air outlet of the on-site air conditioner and other equipment should not blow against the product, and the temperature should be set to 25 ± 1 ° C to create a suitable environment for the operation of the equipment.

4) Ventilation and temperature and humidity: The LED all-in-one display should be well ventilated, and the difference between internal and external temperature and humidity should not be greater than 5 degrees.

5) Frequency of use: at least twice a week and above, each time not less than 2 hours, usually the product can also be kept standby to maintain the performance of the equipment.

Equipment operation specifications:

1) Cable plugging and unplugging: Before unplugging the cable, be sure to turn off the power of the corresponding device to prevent damage to the interface parts. At the same time, do not frequently plug and unplug the cable at the signal source to avoid damage to the cable.

2) Avoid electromagnetic interference: Avoid electromagnetic field interference of the equipment, such as staying away from non-magnetic speakers, amplifiers, etc.

Data Security:

Back up important data and files frequently to prevent data loss.

Power system maintenance:

1) It is recommended to check the power system daily so that any problems can be detected in time.

2) Turn off the system during the thunderstorm season or when not in use for a long time.

3) Maintenance on the power supply system should only be carried out by an electrician with the relevant certificates.

Transportation & Storage

1) The display of the all-in-one LED machine needs to be transported after packaging. During transportation, it is strictly forbidden to turn the package upside down; Avoid rain and snow; Avoid prolonged direct sunlight; Do not come into contact with corrosive gases and suffer mechanical damage.

2) The storage temperature of the storage display module is -40° C-60° C, and the relative humidity is 10%-80% (no condensation). The storage place shall not contain acid, alkali and corrosive gases, no strong mechanical vibration, and shall not be close to the magnetic field. No fire and explosion hazard.

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all statements, information and recommendations contained in the document do not constitute any express or implied warranties.

Damage to the device caused by failure to follow the documentation is not covered by the equipment warranty.

Professional Service, Best Experience

Absen has built up a global network , able to provide prompt and professional local services.

Absen service philosophy

Initiative	Efficiency
Proactive care and return visits, regular touring inspection services for customers	All service channels respond within 10 seconds, intelligently match the best local service resources, and enjoy a fast service experience
Standardization	**Thoughtfulness**
Comprehensive service engineer training system, ACE professional training and certification, ACP professional certification; establishing customer's product files and record the entire service process	Longer warranty, worry-free quality

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