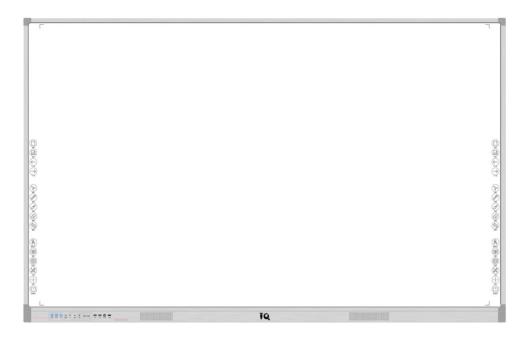


Evolution AiO 100" Interactive Whiteboard







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Chapter One - Product Model and Standard Configuration

IQAio Interactive whiteboard all-in-one(Here in after referred to IQAio), Highly integrated infrared interactive whiteboard, OPS computer, central control, power amplifier, speaker, wireless microphone etc. as one. There is no need to consider about the complex wiring between equipment, and installation is very easy.With aluminum alloy ultra-narrow frame, the overall appearance is simple, and rich in technology. It adopts 15 shortcut keys with three sections on both sides, which conforms to the ergonomic design and is designed according to the user's usage frequency and habit, so it is convenient and efficient to use.The user's panel adopts capacitor luminescence buttons, which is intuitive and sensitive to operate, combined with the RFID card to power on/off and identification function, making the management and use of IQAio more convenient and flexible.

Model and Configuration

1) Product Model: GR519

2) Product Configuration: (See packing list for details.)

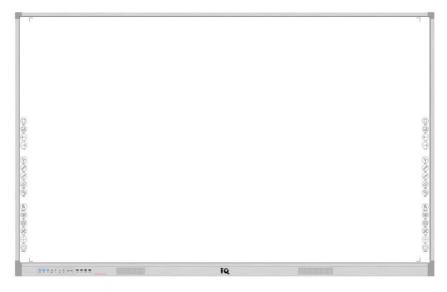
Product Configuration	Configuration Status
OPS Host Computer	Optional
Intelligent Central Control	Standard
Power Amplifier	Standard
Built-in Speaker	Standard
Infrared Whiteboard	Standard
Wireless Keyboard and Mouse	Optional
External Wall-mounted USB	Optional
Document Camera	
Wireless Microphone (with laser	Optional
pointer and page turning function)	

*Product model or configuration are subject to change without prior notice.



Chapter Two - Product Structure and Installation Method

1. Appearance



2. Dimensions

Model	Overall Dimension (inch)	Projected Dimension (inch)	Projection Ratio	Overall Dimension (mm)	Maximum Thickness (mm)
GR519-100W	107.7	100	16:10	2319*1460	85
GR519-100H	107.7	100	16:9	2373*1370	85
GR519-92W	96	92	16:10	2093*1246	85
GR519-92H	96	92	16:9	2373*1370	85
GR519-80X	87.5	80	4: 3	1779*1343	85

 $(Product \ overall \ dimension \ tolerance \ is \ \pm 5 mm)$

3. Installation

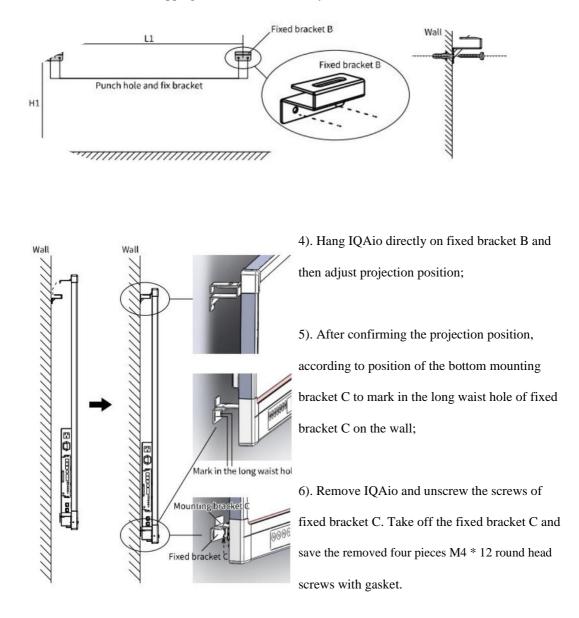
1). Determine the fixed position and fixed height of the IQAio according to the customer's actual using situation; Install 2 fixed bracket B to the wall according to the distance of the wall hanging parts on the back of the IQAio, and ensure that the 2 fixed bracket B are at the same level, (it is suggested that the distance from the bottom of Aio to the ground is 800mm);

After confirming the position, use an 8mm electric drill to drill four fixed holes deeper than
 70mm on the installation wall;



3). Insert the expansion rubber plug into the hole that has been punched, and then fix the fixed bracket

B to the wall with the self-tapping screws in the accessory box;

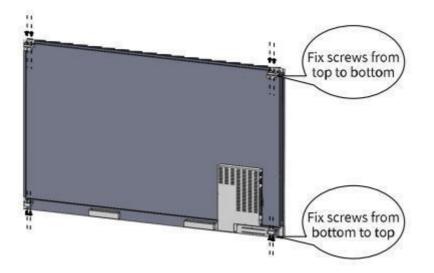


7). After confirming the position of the fixed bracket C, use an 8mm electric drill to drill 4 fixed holes deeper than 70mm on the installation wall;

8). Insert the expansion rubber plug into the hole that has been punched, and then fix the fixed bracket C on the wall with the self-tapping screws in the accessory box;



9). Hang IQAio on the fixed bracket that have been installed, and then fix the upper and lower four mounting brackets with eight M4*12 round head screws with gasket. And the installation is complete.



Chapter Three - Function Introduction of the Equipment

Dower	PC	Projector	Source	Vol. -	Vol. *	Mute	(((card)))	USB	USB	IQUSB	номі	
Power		But	ton	power	on/off		in OPS comput				ich can be used fo mplifier, and	or
Indicator light Off: all-in one whole machine power off												
On: IQAio has built-in power indicator light of central control and power						power						

1. Introduction of central control buttons and ports function

		amplifier.When under power-off status, with one key, the built-in central control,
		power amplifier, built-in OPS computer, projector, and built-in whiteboard will be
		opened. It will light up after complete.
	Button	Long press it for 3 seconds, it can independently control the switch of the built-in
PC		OPS computer
	Indicator light	Off: built-in OPS computer is under power-off status.
		On: built-in OPS computer is under power-on status.
	Button	Long press it for 3 seconds, it can independently control the switch of projector.
Projector	Indicator light	Off: Projector power off (the control code of the control unit should be properly
		configured and the control wire of projector should be connected ready)
		On: Projector power on (the control code of the control unit should be properly
		configured and the control wire of projector should be connected ready)
	Button	Short press the button can trigger the source change button, the sequence is the
		machine, front HDMI, rear HDMI, status indicator light with LED
	Indicator light	Off: built-in OPS computer (effective when the built-in computer switch indicator is
	C C	on)
Source		On: front HDMI input (effective when the front HDMI is connected correctly and
		work properly)
		On, Off, On: rear HDMI input (effective when HDMI of the external computer
		connect and work properly)
	Button	Short press the button can increase the volume of the built-in power amplifier, long
		press it can increase volume continuously to maximum stop
Vol+	Indicator light	Off: the built-in power amplifier is not at full volume
		On: the built-in power amplifier is at full volume
	Button	Short press the button can reduce the volume of built-in power amplifier, long press
Vol-	Dutton	the button can reduce the volume continuously to minimum stop
V 01-	Indicator light	Off: the volume of the built-in amplifier is not at its minimum
	mulcator light	
	D. //	On: the volume of built-in power amplifier is at its minimum
3 <i>F</i> /	Button	Short press the button to switch between play and mute of the power amplifier
Mute		sound.
		When the IQAio is off, long press the button for 3 seconds to separately open the
		built-in power amplifier of the IQAio, and the indicator light on the power button
		under this state is on. To turn off the amplifier, please press "power" button for 3
		seconds.
	Indicator light	Off: built-in power amplifier works normally
		On: built-in power amplifier is under mute status
IQUSB Port	Port	it's the intelligent IQUSB input port of the IQAio. After connected with the external
		laptop, the touch function of the built-in whiteboard, the audio and power amplifier



		function, and the handheld microphone page turning function all can work.
USB Port	Port	USB expansion port
HDMI Port	Port	Front HDMI video signal input port
VGA Port	Port	Front VGA video signal input port (optional)

2. Central control and power port:

1) Back center control port (the port is at the lower left of the backboard of the whiteboard,

facing the inside of the backboard)

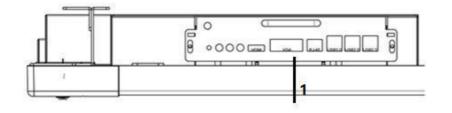
		Serial Number	Port	Wiring instruction
		1	HDMI out	Connect to HDMI in port of projector
		2	HDMI in	connect to the HDMI out port on the motherboard or external computer
		3	Projector RS232	Connect to RS232 control port of projector to control the power on/off of projector
<u>⊖</u> =‡	<u> </u>	4	USB port	Connect the USB document camera, whiteboard, and USB flash disk etc.
	—3 —4	5	IQ USB	Connect to the USB port of external computer. After connected, the touch function of the built-in whiteboard, the audio and power amplifier function, and the handheld microphone page turning function all can work.
	-5 -6 -7	6	Stereo power amplifier out	connect double sound channel passive speaker (Single channel maximum 25W 4 Ω /8 Ω impedance speaker)
	8	7	Audio in	Connect to the green audio out port of external computer
			AUX audio out	AUX mixed audio put, connect external active speaker, and recording and broadcasting host
<u>7</u> @		9	VGA out	Connect to VGA in port of projector



		Connect to the VGA out port on motherboard
10	VGA in	1
10	10111	

or GPU of external computer

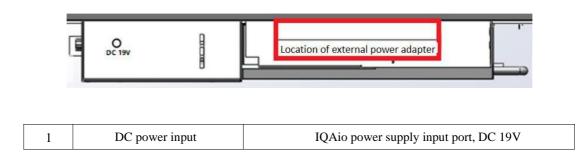
2) Back port (the port is at the lower left of the backboard of whiteboard, facing the outside of the backboard)



1	OPS slot	Compatible size, 19.5 ± 0.5 mm long, 18.1 ± 0.5 mm wide ,
		30 ± 0.5 mm thick or 42 ± 0.5 mm thick OPS computer



3) Back port (above the backboard central control port)





Chapter Four - Main Technical Parameter

Working power: DC19V \geq 4.72A (\geq 90W)

Maximum power: 90W

Wireless microphone range: ≥15m (open environment)

Power amplifier and speaker power: amplifier power: 2*25W, speaker power: 2*15W Intelligent central control audio in channel: 3 channels, including front and rear USB audio, and rear 3.5mm audio in

Intelligent central control audio out channel: 2 channels, including rear 3.5mm AUX mixed audio and power amplifier audio out

Intelligent central control video in channel: 3 channels, including front HDMI in, rear HDMI in, rear VGA in

Intelligent central control video out channel: 2 channels, including rear HDMI out, rear VGA out Projector control port: RS232 1 channel

Intelligent central control USB port: rear 3 channels, front 3 channels

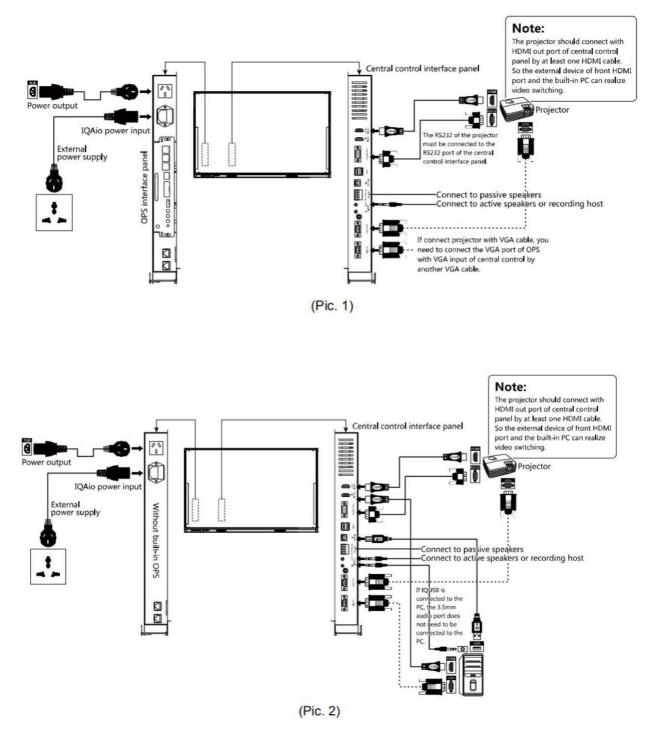
Working temperature: $0^{\circ}C \sim +40^{\circ}C$

Working humidity: 20%~80%



Chapter Five - Introduction of Equipment Use

1. Schematic diagram of equipment connection



*Note: As shown in Pic.1 and Pic.2 above, the connection between the device and projector can be

HDMI or VGA. For example, when using the HDMI cable, you do not need to connect the VGA cable.



2. Introduction of equipment use

1) First, complete the connection of wires required by the equipment (such as the schematic diagram of equipment connection).

2) Power on method ①, power on by swiping the key ring: use the key ring configured by the product, Hearing the sound of "di" means the equipment including the computer and the projector (the equipment must correctly write the power-on control code) have been powered on synchronously, at the same time, the central control, power amplifier, wireless microphone (receiving end) and other equipment has been connected to the power supply.

3) Power on method (2), One key power on: long press "power on/off" button for 3 seconds to power on the device. The power-on function of "power on/off" button can be turned off by the intelligent central control tool of the computer. After turning off, the device can only be powered on by swiping the card, while the device can be powered off by long press the "power on/off" button.
4) Users can also independently perform "power on/off", "computer", "projection", "signal source", "volume +/-", "mute" and other operations;

Chapter Six - Instructions for RFID Card



1) RFID Card to power on, the premise is that the machine has been equipped with card password, and the factory standard card has been configured with a password;

2) Stick the matched card in the center of the "card" area, and remove the card after hearing the sound of "di", and the Aio machine will be powered on;

3) If the card is wrong, the buzzer will continuously alarm;

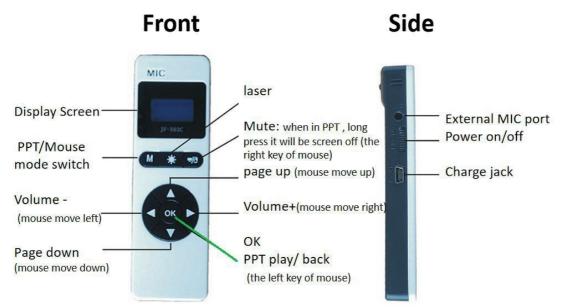
4) when power off the machine, stick the matched card in the center of the "card" area, and remove the card after hearing three "di" sounds. The IQAio will be powered off.



Chapter Seven - Instruction for Wireless Microphone (optional)

1. Instruction for use

- 1) When the IQAio equipped with wireless mic receiver is turned on and the handheld wireless mic is turned off, the handheld wireless mic is turned on within 30cm of the card swiping area. The handheld wireless mic and the all-in-one receiver will be automatically connected to each other.
- Short press the button to mute the wireless microphone. short press "←" and "→" to increase or decrease the volume of the wireless microphone alone.
- Open PPT and play it in slide mode, short press "∧" "∨" can "page up" and "page down" separately;
- 4) The key with "sun" logo is laser pointer;
- 5) The icon of electric quantity indicates the current electric quantity. When the icon is empty, it is the lowest electric quantity.Please connect the USB power cord to charge, the battery icon will flash;
- 6) The headset mic can be accessed through the side 3.5mm audio port. It is recommended to use the headset mic.



2. Precautions for use:

1)Keep a certain space and distance between the metal and area near the wireless microphone antenna on the back board of the white board to prevent the wireless signal from being blocked;

2)Never allow any liquid substances to contact with the wireless microphone. This module should be used in a dry and cool environment.

3)Please avoid product shock or fall from a height to avoid malfunction.

4)To prevent rapid aging of the power supply, the battery should be charged at least once within three months.



Chapter Eight - Easy Operation of Intelligent Central

Control Management Platform

🏭 Central Control Management Built-in parameter Audio configuration : setting area of Vol.: 9 🚔 High vol.: 7 🖂 Low vol. : 14 🎽 central control sound Mute Default Default Default system Save audio value Factory defaults Device switch control Projector status : Turn off projector central control On Built-in PC status : switch and channel On Turn off built-in PC IQAio status : setting area On Turn off IQAio Visualizer status : Off Turn on visualizer software channel : Built-in PC channel switch Device function configuration : Starting match IC card Turn on VGA cable detection Network module Turn off the "one button switch" Server network settings RFID card setting area setting area IC card subject settings Projector control code configuration Projector code Turn off swiping card to lock key panel configuration area Custom function selection : Open whiteboard software Confirm Status refresh The button panel Lock key panel lock control needs to be unlocked by Language English • Exit swiping card.

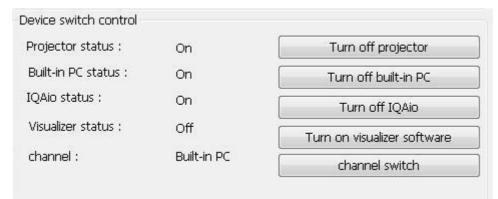
1. Introduction of Central Control Platform Interface

2. Built-in parameter setting area of central control sound system

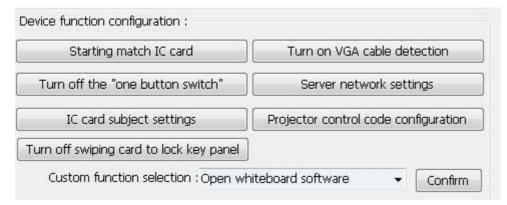
Mute	Vol. : 9 🚊	High vol. : 7 📄	Low vol. : 14
	Default	Default	Default



3. Central control switch and channel setting area

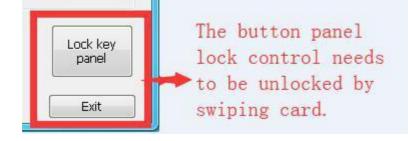


4. Function configuration area



5. Button panel lock function

After the front button panel is locked, it can be unlocked by intelligent central control management software or by swiping a card in the front area.





Chapter Nine - Operation Introduction of Central Control

Write Code

The built-in central control code configured multiple projectors, It can choose the projector control code through AIO central control software on the computer, it can also manually enter the projector "boot", "shutdown" and "RGB INPUT1", "HDMI" control code to write into memory storage of central control memory chip, and control the projector power on/off directly with central control panel button.

1. Connection between the central control and the projector

1) There is an RS232 projector control line when delivery, which is used to connect the all-in-one machine with the projector. If the serial port model of the projector is different, the adapter shall be added;

2) The "5" pin of the central control is ground, and the "3" pin is signal output pin;

3) There are two kinds of receiving pins in serial port code of projectors of different models in various factories, namely direct connection and crossover. However, the built-in central control has the function of pin intelligent identification, which eliminates the need for direct connection and crossover operation on line.

2. Software coding operation

1) After entering the computer system, open the intelligent central control management tool.

Central Control Management		Projector control code configuration :
and the second	High vol. : 7 Low vol. : 14 Default Default	Other projector control code :
Save audio value	Factory defaults	Baud rate : 9600 - Parity check : No - Data bits : 8 -
Device switch control Projector status : On Built-in PC status : On IQAio status : On Visualizer status : Off channel : Built-in P Device function configuration :	Turn off projector Turn off built-in PC Turn off IQAio Turn on visualizer software C channel switch	Command : POWER ON: POWER OFF: RGB INPUT1: RGB INPUT2: VIDEO:
Starting match IC card	Turn on VGA cable detection	S-VIDEO:
Turn off the "one button switch"	Server network settings	Other:
IC card subject settings	Projector control code configuration	HDMI:
Turn off swiping card to lock key pa Custom function selection : Ope		STANDBY:
Status refresh	Lock key panel	POWER SAVING:
Language English 👻		Exit

2) You can select the corresponding projector model from the existing model to see whether it is in the list, or directly check whether the baud rate and parity check code, command code and other contents are consistent with the control code of the projector, if consistent, you can directly select and configure



the control code. If your projector cannot be found in the list model, please set the baud rate, parity check code, command code and other contents of the current serial port according to the technical parameter requirements of the projector manual, and select and input in the command box.

3) After setting the control code, click the send button, after long pressing the buzzer of the IQAio, the control code of the projector has been written into the memory chip of the central control, and then the switching function of the projector can be realized.

	Technical Principal	Infrared technology
	Touch point	Support 10-point touch control and synchronous writing, no need for special pen, use finger or other non-transparent materials to operate directly on the whiteboard, to avoid later use loss;
	Response rate	8m/s
Whiteboard	Position accuracy	0.05mm
Software	port	USB2.0 and above
	Shortcut key	15 silk-print shortcut keys on the left and right side
	Material	Anti-glare, no light spot, high contrast, good color reduction, low reflection, strong and wear-resistant, anti-scratch, dustproof, smooth writing and support pen writing;The normal use of the board will not be affected even if the board is damaged, perforated or dented due to accidents.It uses double-sided metal plate material to shield other signal interference more better.

Chapter Ten - Whiteboard Software

Chapter Eleven - Attention

1. Do not clean the whiteboard with wet cloth to prevent water from entering into the touch module and causing product malfunction;

- 2. Do not dismantle the machine by yourself;
- 3. Please stay away from heat sources, water sources and corrosive substances;

4. During routine maintenance of the whiteboard, please power off the equipment and use dry towels to clean the black plastic sheet on the lower frame;

5. The normal range of working temperature: $0^{\circ}C \sim +40^{\circ}C$;

6. When not in use for a long time, the device should be closed and unplugged.



Chapter Twelve - Common Malfunction and Solutions

1. The power is on, the power indicator is not on.

Please check whether the live wire and null line of the socket is connected or not, If the power supply is normal, please check the power indicator of the power adapter behind the whiteboard. If the light is not on, please contact the after-sales service to replace the power adapter.

2. The image of the projector is inverted.

Since the projector used in the classroom is usually in a hoisting mode, the image revealed by the projector will be reversed under normal circumstances after installation. At this time, the inverted projection mode can be set in the projector setting menu, and the image cast is the normal image.

3. No output of computer image

Please check the "signal source" indicator light on the panel, and confirm whether the signal source is selected incorrectly according to the status of the signal indicator light.

4. The projector cannot be started

- 1) Whether there is a connection between the "RS232" control port of the IQAio and the RS232 interface of the projector, and whether the projector control code is set correctly;
- 2) Please check whether the signal feet at both ends of the wire are broken.

5. There is no sound of wireless microphone

- 1) Check whether the battery level of the handheld wireless microphone is too low. The battery level on the handheld wireless microphone LCD screen indicates that the battery level is empty. Please charge it in time;
- 2) When the handheld wireless mic is turned off, turn on the handheld wireless mic close to the card swiping area for frequency matching;
- 3) Check whether the mute compound key on the handheld wireless microphone is pressed, short press to exit mute. Then test whether the volume mute indicator on the front button panel is on. If the light is on, short press the "mute" button, and the indicator will go off to exit the mute state.

6. The IQAio is not powered up, and the power indicator in the card swiping area is off.

- 1) Check whether the power socket is in good contact;
- 2) Check whether the power on/off button on the central control panel is on.

7. Display image but no volume output.

1) Check whether the center control panel displays mute. If the mute indicator is on, short press the mute button to exit the mute state.

2) Check that the volume of the computer system is minimal or mute.

8. No touch in whiteboard software

1) First, check whether the whiteboard driver is installed successfully. After the installation fails, open

the teaching platform software on the computer and it will prompt you to register. At this time, exit the safety software (such as 360 security guard or computer butler, etc.), reinstall the correct whiteboard driver, and restart the computer and confirm the touch again.

9. Touch point or cursor of the whiteboard is offset.

1) Please open the whiteboard positioning in the drive, or operate the "positioning" shortcut keys on the left and right sides of the white board to conduct the positioning operation.

If problem is not solved, please call our technical support.