



Description

This smart blackboard integrates application modules such as presentation, writing, human-computer interaction, and content sharing. With its practical, paperless, and efficient information-based integrated application platform, it helps transform and upgrade the teaching methods of millions of classrooms in China. The brand-new intelligent interactive experience and application demonstration realize diversified and information-based knowledge dissemination and sharing. In the future, we will uphold the concept of "helping to narrow the gap in educational equipment and enabling more students to equally experience the joy of knowledge," continuously providing customers with higher-quality and more efficient educational products and services, and striving forward for the continuation of teaching and learning.

Features

- *Adopts a three-panel integrated design, with the main and secondary screens smoothly transitioning and on the same plane. It features an all-metal casing, aluminum alloy frame, and metal back panel. The screen edges are rounded for protection, and the surface has no sharp edges, which provides some shielding against radiation from internal circuit components.
- *Uses a UHD (Ultra-High Definition) A-grade LED LCD screen with a resolution of 3840*2160 and an aspect ratio of 16:9, featuring anti-glare properties. It can still operate normally in an environment with an illuminance of 100k lux.
- *The writing panel is made of anti-glare, fully tempered, explosion-proof glass, achieving a non-reflective effect. Writing is clearly visible from any angle, maintaining the original clarity of ordinary chalk writing.
- *The screen displays rich color details, high color fidelity (color gamut $\geq 72\%$ NTSC), and a contrast ratio of 1200:1, allowing for a delicate presentation of classroom demonstrations.
- *The screen displays a grayscale resolution of 256 gray levels, ensuring a sharp and detailed picture.
- *Employing zero-bonding technology, the pen feels almost weightless when lifted, providing a paper-like writing experience. The tempered glass surface (7H hardness) effectively protects the screen, reducing polarization and scattering between the panel and glass, resulting in a clearer, more transparent display and a wider viewing angle.
- *Supports paper-based eye protection mode across all channels.
- *Built-in ambient light sensor that senses and automatically adjusts the screen brightness to achieve different brightness display effects under different lighting conditions. This function can be turned on or off manually.
- *Adopts capacitive touch technology, supports multi-user multi-touch writing on both Android and Windows systems, supports 40-point touch on Android and 40-point touch on Windows systems, and has a touch resolution of $\geq 32768 \times 32768$.
- *The 2.0-channel high-power independent cavity speaker + front-firing structure design makes the output sound clearer and more textured, making the transmission of knowledge more vivid and engaging.
- *Built-in wireless network module, enabling simultaneous Wi-Fi internet access and AP (Access Point) wireless hotspot transmission without any external antennas or adapters. It supports 2.4/5.0GHz (6GHz) frequency bands and conforms to IEEE 802.11a/b/g/n/ac/ax standards.
- *Supports bringing up the sidebar shortcut menu under any signal source channel. The menu includes central control navigation, system switching, widgets, quick settings, and brightness/volume adjustment.
- *The whiteboard supports dual-screen, triple-screen, quad-screen, or six-screen writing, and each screen can be used for writing freely without interference.
- *Features a floating menu that can be accessed from any position on the screen with a single finger. The floating menu can be accessed from any signal source channel and includes functions such as annotation, erasing, and switching signal sources. The signal sources in the floating menu can be customized and can be accessed with one click for frequently used signal sources.



- *The device has 7 front-facing buttons, including screen recording, signal source, volume down; volume up; settings, eye protection, and power, making it convenient for teachers to quickly turn the device on and off, control it, and access the Windows system.
- *Built-in whiteboard and supports more than 12 graphic tools, including functions such as creating a new document, erasing, selecting, mind mapping, local saving, network sharing, QR code sharing, browser, opening, settings, exiting, and mind mapping.
- *Supports intelligent text recognition, which can recognize handwritten Chinese and English content.
- *Supports online voting functionality, allowing users to set single/multiple selection and anonymous/real-name requirements. After clicking to vote, a voting QR code is displayed, which can be scanned to enter the voting process, and the voting results are refreshed in real time. After the voting ends, the voting statistics are displayed, and the voting results can be saved locally and displayed on a whiteboard.
- *Built-in wireless screen mirroring receiver, no external receiver is needed. Once the wireless screen mirroring transmitter is paired with the main unit, the screen mirroring function can be realized, allowing the screen of an external computer to be transmitted to the main unit wirelessly.
- *When there is no signal input, it supports automatic switching to the previous signal source.
- *Features a three-in-one power button that supports power on/off for the entire device, power on/off for the OPS computer, and power off the screen. When the screen is off, power consumption can be reduced by $\geq 90\%$.
- *Supports a memory function, allowing users to modify and remember the signal source name as needed. It also supports automatic identification and switching to the newly connected signal source for display. After disconnecting the signal source, users can return to the previous signal source upon confirmation.
- *Supports system lock functionality and USB key unlocking.
- *Supports the OneNetwork function, requiring only one wired network cable to meet the internet access needs of both OPS and Android systems, eliminating the need to switch network cables separately.
- *The central control menu system bar includes, but is not limited to: network (wired/wireless/hotspot), eye protection, touch lock, screen off, child lock, and settings.
- *Supports a screen freeze function, which can zoom in and out of the screen.
- *It has a power supply protection module that allows it to cut off power to the built-in computer when the computer is not locked.

Specification

Size	86 inches
System version	Android 14
CPU	Quad-core A73
Memory	4GB
Storage space	32GB
Response time	$\leq 8\text{ms}$ (typ.)
Aspect Ratio	16 : 9
Display size	1895.04mm (L) * 1065.96mm (H)
Resolution	3840 * 2160
Refresh rate	60Hz
Color saturation	1.07B
Color gamut NTSC (Typ.)	72% NTSC
Contrast	1200:1 (typ.)
Viewing angle	178°(H) / 178°(V)
Backlight type	D-LED
Screen brightness (Typ.)	300 cd/m ² (typ.)
Surface treatment	Anti-glare
Brightness uniformity	75%
HDR	support
Glass specifications	3.2mm AG tempered glass
Transmission rate	$\geq 82\%$
life	$\geq 30,000$ H
Touch recognition principle	capacitance
Touch points	40 points, Windows 7/8/10 40 points, Android 40 points
Touch mode	Finger or stylus
Touch response time (Typ.)	$\leq 8\text{ms}$
Touch accuracy	$\leq 1\text{mm}$
Writing screen surface hardness	7H
Wi-Fi version	802.11a/b/g/n/ac/ax
Wi-Fi operating frequency	2.4GHz/5GHz
Wi-Fi working distance	0 ~ 12m



Bluetooth version	Bluetooth2.1+EDR/3.0/4.x/5.2/5.3/5.4
Bluetooth operating frequency	2.4GHz
Bluetooth working distance	0 ~ 12m
Audio channel	Standard configuration 2.0
Power	2*15W
PC Interface	80- pin standard interface, supports OPS-C specification
OPS Power Supply	DC 18V/5.5A, supports OPS-C specification.
Front port	USB3.0*3, Type C*1, Touch USB*1, HDMI IN*1
Onboard I/O interface	RJ45 IN*1, RS232*1, OPTICAL OUT*1, MIC IN*1, LINE OUT*1, Android USB3.0*1, Touch USB*1, HDM I IN*2, Public USB2.0*1
Wired network	10/100Mbps (One-Network Access)
Indicator lights	Standby - red, Running - blue
Power input	AC 200 ~ 240V, 50/60Hz
Total power consumption (excluding OPS)	240W (based on actual measured value)
Standby power consumption	<0.5W
Energy Efficiency Rating (CEL)	Level 2
Operating temperature	0°C ~ 40°C
Operating humidity	10% ~ 80%RH
Storage temperature	-20°C ~ 60°C
Storage humidity	10% ~ 90% RH
Overall machine dimensions	4200*1177.5*131mm (including wall fasteners)
Net weight	(Main screen) 57±1kg, (Secondary screen) 20±1kg