86-inch Smart Blackboard

TV-86830EB

Description

This smart blackboard integrates multiple functional modules such as demonstration, writing, interaction, and sharing. With a practical paperless information-based integrated application platform, it helps the transformation and upgrading of traditional classroom teaching methods, and brings a brand-new interactive experience and application display to achieve diversified knowledge dissemination and sharing. In the future, we will adhere to the concept of "Narrow the gap in educational equipment and allow more students to learn knowledge equally", and continue to provide customers with educational products and services with better quality and higher efficiency.

Feature

* Adopting the integrated design of three splicing planes, the transition between the main and vice screens is smooth and on the same plane, without a separate frame in the middle. The edges of the screen are metal rounded corners and wrapped for protection. It supports multiple writing methods such as water pen, ordinary chalk, and dust-free chalk; it can realize unified screen writing on the entire blackboard; it is wall-mounted and easy to disassemble.
* The display screen in the middle area adopts UHD LED LCD screen with a resolution of 3840*2160, a display ratio of 16:9, and an anti-glare effect, which can still work normally in an environment with an illumination of 110KLUX (lux).
* The left and right vice screens are made of highly anti-reflective materials to achieve a non-reflective effect; the handwriting can be clearly seen at any angle, and the original handwriting written with ordinary chalk can be maintained.
* The display screen is rich in colors and details, with a high degree of color reproduction (color gamut ≥ NTSC 72%), so that it can present a delicate classroom demonstration effect.
* The display screen reaches more than 128 gray scales, ensuring a sharp picture display effect and a strong sense of layering.
* Adopting zero lamination technology, there is almost no sense of suspension when lifting the pen to write, bringing a paper-like writing experience. The surface tempered glass (7H hardness) can effectively protect the screen and reduce the polarization and scattering between the panel and the glass, so the screen display is clearer and more transparent, and the viewing angle is wider.
* It has the function of reducing and filtering blue light, which can be enabled by touching the menu button.
* The screen can sense and automatically adjust the brightness to achieve different brightness display effects in different lighting environments. This function can be turned on or off by itself.
* Using capacitive touch technology, it supports multi-person and multi-touch writing in dual systems, supports up to 20 points of touch under the Android system, and up to 40 points of touch under the Win system.
* 2.0-channel high-power independent cavity speaker + front acoustic structure design makes the output sound quality more clear and textured, making the transmission of knowledge more lively.
* Built-in wireless network module, without any external or transfer antenna, network card can realize Wi-Fi Internet connection and AP wireless hotspot transmission at the same time. It supports 2.4G & 5G frequency bands, and the version complies with IEEE 802.11 a/b/g/n/ac /ax standards.
* The front Type-C interface supports full-featured audio and video input functions. External devices can be connected through a standard Type-C cable to project the screen on the large screen. At the same time, the computer touch operation can be realized without connecting any other cables.
* Equipped with dual RJ45 network interfaces, it realizes the function of two-way branch router, and the automatic identification and use of the input and output terminals do not need to be distinguished, so that the external devices can share the connection, and only one wired network cable is needed to realize simple deployment.
* The left and right side navigation bars are designed with virtual buttons, which can quickly call out Back, Home, Whiteboard, Annotation, Multitask management, Signal source, Tools, etc., and support custom replacement of applications and shortcut tools.

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* In the Android system environment, shortcut tools can be called through the left and right sidebars to realize task collaboration between two split screens. Notifications support writing and demo pictures and documents; it supports entering annotation mode, and can be shared by scanning codes.
* In any channel, you can quickly call up the shortcut menu of the central control at any position through hand gestures, with common functions such as return operation, one-key homepage, task preview, menu setting, one-key whiteboard, and full-channel screen annotation; six custom shortcut applications can be added; the central control menu can be automatically hidden without occupying the display area.
* With 7 front physical buttons, namely power switch, OPS computer power button, home, volume +/-, setting and signal source, which are convenient for teachers to quickly switch on and off the device, call out the central control menu, enter the windows system and other operations.
* The Android whiteboard supports writing and gesture erasing, and supports more than ten graphics tools. The written content can be exported to PDF, picture and other formats, supports local/U disk storage, and supports QR code scanning and sharing.
* The whiteboard supports intelligent recognition of hand-drawn graphics, and supports the insertion of smart tables. The size of the table can be automatically expanded according to the writing content, and rows and columns can be added separately by drawing straight lines.
* Support voting function. Topics and option content can be edited, up to 10 options can be set, single-choice and multiple-choice are supported, and after the setting is complete, use the mobile phone to scan the code and send it to vote. The voting results can be generated into pie charts or bar charts, and can be inserted into the whiteboard in picture format.
* Support wireless projection function, transmit the external computer screen to the large screen display through the projection software, and connect up to four devices for screen projection simultaneously.
* Support custom setting of the no-signal standby time. When the device is in the no-signal receiving state within the preset time, it will automatically enter the standby mode to save energy consumption.
* Support standby wake-up function. In standby mode, the LAN and HDMI ports support device wake-up when the signal is connected, which is energy-saving, environmentally friendly, and can increase the service lifespan of large screen.
* Support custom power-on default channel. Regardless of the shutdown in any channel, the default channel for power-on can be specified, and the shutdown signal source can also be memorized as the power-on signal source.
* With the screen password lock function; the unlock password can be customized. After enabling this function, you can lock the screen and enter the password to unlock it.
* Support all networks function, only one wired network cable is required to meet the Internet access requirements of OPS and Android dual systems, no need to switch the network cable connection separately.
* Equipped with a touch lock to prevent the operation interface from being misoperated.
* With NFC card swiping power-on function, it effectively protects the normal use of the device.

Specification

Model	TV-86830EB
Screen size	86 inches
System version	Android 11.0
CPU	Quad-core A55
RAM	4GB
Storage	32GB
Response time	8ms
Aspect ratio	16:9
Display size	1895(H)×1065(V)mm
Resolution	3840(H)×2160(V)
Refresh rate	60Hz
Chroma	1.07B(10bit)
Color Gamut NTSC(Typ.)	72%
Contrast ratio	1200:1
Viewing angle	178°(H/V)
Backlight type	DLED
Brightness (Typ.)	350cd/m2±10% (typical value of nine-point center)
Service lifespan	≥50000H
Touch recognition	Capacitive touch technology
Touch system	Windows10/Windows8/Windows7/Android
Touch points	Windows: 40-touch, 20-touch writing; Android: 20-touch, 10-touch writing
Minimum identifier	1mm
Touch method	Finger or capacitive stylus
Touch response time (Typ.)	<15ms
Touch accuracy	±2mm (more than 90% of the touch area)

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Screen surface hardness	7H
Wi-Fi version	802.11a/b/g/n/ac/ax
Wi-Fi working frequency	2.4G, 5G
Wi-Fi working distance	<10 meters
Sound track	CH2.0 stereo double channel
Power	2×15W@8Ω
PC type	Plug-in Intel Core series modular computer
PC interface	OPS-C Standard 80 Pin
Front interface	HDMI*1, USB3.0*2, Type-C*1, TOUCH 2.0*1
Onboard input port	RJ45*1, AUDIO IN*1, RS232*1, USB2.0*1, HDMI*2, USB3.0*2
Onboard output port	RJ45*1, EARPHONE(LINE OUT)*1, OPTICAL OUT*1, TOUCH OUT(USB2.0)*1
Power supply	100-240V~50/60Hz
Total power consumption	320W (Excluding OPS)
Standby power consumption	≤0.5W
Dimension (L×W×T)	4200×1215×117.7mm
Thickness	121mm (error ±2mm) (Including wall bracket)
Weight	107.5kg
Working temperature	0℃~40℃
Working humidity	20%~80%