



# 86-inch Smart Blackboard

## TV-86830EB



### Description

This smart blackboard integrates application functional modules such as presentation, writing, human-computer interaction, content sharing, and so on. With practical paperless system and efficient information transmission, the comprehensive application platform helps the transformation and upgrading of teaching methods, provides intelligent interactive experience and application display, and realizes diversified and information-based knowledge dissemination and sharing. In the future, we will adhere to the concept of "helping narrow the gap in educational equipment and allow more students to equally experience the fun of knowledge", continue to provide customers with higher-quality and efficient educational products and services, and work hard to continue the legacy of teachers and pass on the legacy of the past. .

### Feature

- \* Adopt the integrated design of three splicing planes. The main and secondary screens transition smoothly and are on the same plane, without a separate frame in the middle. The edges of the screen are covered with metal rounded corners for protection. Support a variety of writing methods such as marker, ordinary chalk, and dustless chalk. It can realize unified screen writing on the entire blackboard, and adopt wall-mounted installation, which is easy to disassemble.
- \* The display screen in the middle area adopts UHD LED LCD screen, with a display resolution of 3840\*2160, a display ratio of 16:9, and anti-glare effect. It can still work normally under the illumination of 110KLUX.
- \* The left and right sub-boards are made of high anti-reflective material to achieve non-reflective effect, the handwriting can be clearly seen at any angle, and the original handwriting can be maintained.
- \* With rich color details of display and high color reproduction (color gamut  $\geq$  NTSC 85%), the demonstration picture can be presented delicately.
- \* More than 128 grayscale resolution level of the display ensures the sharpness and layering of the screen display effect.
- \* Use fit technology without zero distance for 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 that the screen display is clearer and more transparent, and the viewing angle is wider.
- \* With blue light reducing function, which can be activated by touching the menu button with one key.
- \* The whole machine can sense and automatically adjust the screen brightness to achieve different display effects in different lighting environments. This function can be turned on or off by yourself.
- \* Adopt capacitive touch technology, support dual-system multi-touch writing, support up to 20 touch writing in Android, and support up to 20 touch control in Win system.
- \* 2.0 sound channel high-power independent cavity speaker and front-end sound structure design makes the output sound quality clearer and more textured.
- \* Built-in wireless network module, without any external antenna, transfer antenna, or network card, can realize Wi-Fi wireless Internet connection and AP wireless hotspot transmission at the same time. Support 2.4/5.0GHz frequency band (support 6GHz), and the version complies with IEEE 802.11 b/g/n standards.
- \* The front TypeC interface supports full-featured audiovisual input. The external device can project display to the large screen by connecting the standard TypeC cable. At the same time, the operation of touch computer can be realized on the machine without connecting any other cables.
- \* Equipped with dual RJ45 network interfaces to realize the function of two branch routers, and the input and output terminals are automatically identified and used without distinction, so that external devices can share the connection. Simple deployment can be achieved with only one wired network cable.
- \* With virtual buttons of the navigation bar on the left and right sides to quickly return and call home page, whiteboard, annotation, multitasking management, signal source, tools, and so on. Support custom replacement of applications and shortcut tools.
- \* In Android system, shortcut tools can be called through the left and right sidebars to achieve two-screen display and task collaboration. Notification supports for writing and presenting pictures and documents, supports for entering annotation mode, and sharing by scanning code.



# 86-inch Smart Blackboard

## TV-86830EB

- \* Under any channel, the convenient central control menu can be quickly called up at any position through gestures, with common functions such as return, one-key home page, task preview, menu setting, one-key whiteboard, and all-channel screen annotation, and six shortcut applications can be added by custom; the central control menu can be automatically hidden without occupying the display area.
- \* The whole machine has 7 front buttons, that is, the power switch button, the OPS computer switch button and the energy-saving standby button are the same physical button to ensure the convenient operation.
- \* Android whiteboard supports writing and gesture erasing, supports more than ten graphic tools, supports export of whiteboard content to PDF, picture and other formats, supports local/U disk saving of whiteboard content, and supports QR code scanning and sharing.
- \* Whiteboard supports intelligent recognition of hand-drawn graphics, and supports insertion of intelligent tables. 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. You can edit the content of the issues and options, and can set up to 10 options of single-choice and multiple-choice. After the setting is completed, you can scan code to issue the voting, and the voting results can be generated as pie chart or bar chart, which can be inserted into the whiteboard in image format.
- \* Support wireless screen projection, support the transmission of external computer images to the large screen with wireless software, and can connect up to four devices to screen at the same time.
- \* No-signal standby time can be customized. When the device is in a no-signal receiving state within the set time, it will automatically stand by to save energy.
- \* Support standby wake-up function. In standby state, LAN and HDMI ports support wake-up and power-on when the signal is connected, which is energy-saving and environmentally friendly, and can improve the service life of large screen.
- \* The default channel for startup can be customized. When any channel is turned off, you can specify the default channel to start up, and you can also set the shutdown signal source to memorize as the startup signal source.
- \* With screen password lock function, you can customize the unlock password. After enabling, you can lock the screen and enter the password to unlock.
- \* Support one-stop function, only one wired network cable is required to meet the Internet access requirements of the OPS and Android dual systems without switching the network cable connection separately.
- \* With touch lock to prevent the operation interface from being accidentally operated.
- \* Support NFC function, only for screen sharing.
- \* Support the camera function. Click the camera button to call the camera (external) to take pictures.

## Specification

<b>Model</b>	TV-86830EB
<b>Screen size</b>	86 inches
<b>System version</b>	Android 11.0
<b>CPU</b>	Quad-core A55
<b>RAM</b>	4GB
<b>Storage</b>	32GB
<b>Response time</b>	8ms
<b>Aspect ratio</b>	16:9
<b>Display size</b>	1895(H)×1065(V)mm
<b>Resolution</b>	3840(H)×2160(V)
<b>Refresh rate</b>	60Hz
<b>Chroma</b>	1.07B(10bit)
<b>Color Gamut NTSC(Typ.)</b>	72%
<b>Contrast ratio</b>	4000:1
<b>Viewing angle</b>	178°(H/V)
<b>Backlight type</b>	DLED
<b>Brightness (Typ.)</b>	350cd/m <sup>2</sup> ±10% (typical value of nine-point center)
<b>Service lifespan</b>	≥50000H
<b>Touch recognition</b>	Capacitive touch technology
<b>Touch system</b>	Windows10/Windows8/Windows7/Android
<b>Touch points</b>	Windows supports 20-point touch, Android supports 20-point touch and 10-point writing
<b>Minimum identifier</b>	1mm
<b>Touch method</b>	Finger or capacitive stylus
<b>Touch response time (Typ.)</b>	< 6ms
<b>Touch accuracy</b>	±2mm (more than 90% of the touch area)



# 86-inch Smart Blackboard

## TV-86830EB

Screen surface hardness	7H
Wi-Fi version	802.11 b/g/n
Wi-Fi working frequency	2.4/5.0GHz(support 6GHz)
Wi-Fi working distance	<10m
Bluetooth version	5.0
Bluetooth working frequency	2.4GHz/5GHz
Bluetooth working distance	0~12m
Sound track	CH2.0 stereo double channel
Power	2×16W
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 I/O	HDMI IN*2, USB3.0*2 (switched with channels), USB2.0*1, TOUCH OUT*1, VGA IN*1, AUDIO IN*1, AUDIO OUT*1, RS232*1, SPDIF*1, RJ45 IN*1 (10M/100M/1000Mbps), RJ45 OUT*1 (10M/100M/1000Mbps)
Power input	220V~50Hz 2.0A
Overall power consumption (excluding OPS)	440W
Standby power consumption	≤0.5W
Overall dimension (L×W×T)	4200×1245×114mm (including wall fixings)
Weight (net weight)	Main screen: 67kg, sub-screen: 18.5kg (left and right sub-screens combined)
Working temperature	0°C~40°C
Working humidity	10%~90%RH
Storage temperature	-20°C~60°C
Storage humidity	10%~90%RH
Weight (gross weight)	Main screen: 86kg, sub-screen: 24.85kg (left and right sub-screens combined)