Intelligent Conference Flat Panel

TV-X8186 (Specification TV-X8186A)

Description

The iHUB Intelligent Conference Flat Panel focuses on small and medium-sized conference room scenarios, creating a small conference center.The flat panel integrates functions such as high-definition display, digital whiteboard, 4K camera, array microphone, intelligent central control and high-quality audio ; Equipped with Windows 10 IoT system, it meets the needs of conference presentation, writing, interaction, collaboration, sharing, video, data security, environment monitoring and control and other needs, covering the entire process of the meeting.

Features

I. Product hardware/software functions:

*The 86-inch DLED LCD screen has a Full HD 4K system icon display and a simple business-style design. The whole body is made of all-aluminum alloy with an aurora purple color. The ultra-narrow bezel design has a screen-to-body ratio of up to 90%, an ultra-thin screen, hidden ports, and a simple and elegant shape.

*Built-in non-independent computer module, all conference functions are running in the computer module, the computer module uses Windows 10 IoT genuine activated operating system.

*The national secret SM2 and SM3 encryption algorithms are used to encrypt data files and keep them encrypted during transmission to ensure the security and reliability of data transmission and storage; it complies with national security standards and enhances the overall information security protection capabilities.

*It has a 48MP high-definition camera, a field of view of 118°, 8 array microphones, and a sound pickup distance of up to 12 meters; the camera has multiple camera modes including intelligent framing and speaker tracking.

*The camera and microphone are detachable modules, with 12 pogo pin magnetic interface design, no additional wiring is required, and physical protection is used to prevent the leakage of meeting information.

* The camera module has a knob lens privacy cover, and users can turn off the lens when the camera is not in use to ensure privacy and security.

*AI noise reduction can automatically eliminate 300 common noises, such as keyboard typing, chair moving, air conditioning vibration, etc.

*Ultimate audio experience: The product adopts a 2.1-channel design with three sound chambers: 1×32W (bass) + 2×20W (mid-high) gap-sounding speakers; it has five sound effects options (standard, conference, vocal, music, cinema) to meet the needs of different scenarios.

*It has a Type-C full-function interface, which can realize screen projection, reverse control, and audio and video signal transmission functions.

*It has an HDMI loop-out interface and a DP input interface, and supports 4K 60Hz.

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*It has a smart button, built-in infrared sensor, temperature and humidity sensor, light sensor, and combines IoT sensing technology to support real-time monitoring and display of temperature and humidity.

*It has 1 RS232, 2 IO, and 2 RELAY IoT central control interfaces, which are convenient for integration and management with other devices, realize intelligent environmental control, and improve the user experience and comfort.

*It has a built-in storage battery and supports abnormal power-off protection function. After an abnormal power-off, the internal battery is enabled to automatically save the meeting materials and meeting progress, and it can continue to be used after power-on.

*It has a high color gamut of 85% NTSC, and the image display is clear, colorful, and saturated, and the picture details are truly restored.

*It has a hardware-level blue light protection mechanism, with a blue light ratio of less than 25%, which can effectively filter and reduce the radiation of high-energy short-wave blue light, so as to achieve long-term viewing without fatigue and ensure the health of users' eyes.

*The display screen adopts high-precision touch technology, which can accurately identify touch objects with a diameter of 1.6 mm, ensuring a delicate operation experience.

*The whole screen and the screen protection layer adopt zero-fit technology to effectively prevent light reflection.

*The device is made of high-grade anti-glare (AG) tempered glass, which effectively suppresses ambient light interference and screen reflection, significantly reduces visual discomfort caused by glare, ensures viewing comfort, and provides a softer visual experience.

*It supports multiple wake-up methods. In the off-screen state, the device can be awakened by keeping looking, lifting the pen to wake up, double-clicking the touch screen, and pressing the button. The gaze wake-up method can customize the gaze time, and the pen wake-up can quickly use the whiteboard and annotation functions.

*It has a voice assistant assistance function and supports operations of major functions through the voice assistant, such as: starting a meeting, ending a meeting, turning off the screen, shutting down the phone, etc.

*It has a borderless document design. When the user opens the document, it automatically enters the document presentation mode. The document content will be displayed in full screen. During the document presentation, annotations, video playback, split-screen whiteboard, and picture materials can be inserted. There is no limit to the picture stacking to meet the needs of displaying more document content.

*It has a pre-meeting welcome interface function, which can add background audio, video, and pictures, and can customize the welcome interface theme.

*It has a quick meeting mode to meet temporary meetings, multi-person discussions, brainstorming and other activities.

*It has a confidential meeting mode. After the confidential meeting is turned on, the meeting materials cannot be downloaded and will be automatically burned after the meeting. The materials used during the meeting and temporarily cached files are automatically encrypted and cannot be opened after the meeting. It has an interface watermark that covers the entire meeting to prevent taking photos and recording videos and leaking meeting information.

*It has quick voting and custom voting/scoring functions, and has voting and satisfaction evaluation templates; the voting methods are divided into scanning code voting and raising hands voting. Scanning code voting can choose anonymous voting and real-name voting, and voting/scoring can be customized.

*It has a scan code sign-in function. You can sign and watch during the meeting. After scanning the code to sign in, the name of the sign-in person will be displayed in real time.

*It has a conference screen recording function, which supports the selection of 2K and 4K resolutions. It supports multiple screen recording saving methods, which can be scanned and taken away or saved locally, in the meeting, or in a USB flash drive.

*Supports multiple screen projection methods such as NFC touch transmission, wireless screen projection, wired screen projection, and one-click screen projection by screen projection device; supports mixed screen projection display of mobile phones and computers, and supports up to four screens on the same screen; the computer side supports reverse operation of the projection content.

*Supports application screen projection, for example, specifying browser screen projection, specifying document screen projection; other application messages do not pop up, and other tasks can be processed during the screen projection process to protect privacy.

*Supports mixed split screen, and can display whiteboard, dynamic video, audio, document, annotation and other pages at the same time during the meeting. It can display any split screen in full screen or compare different solutions, and supports 4 split screens.

*Supports document presentation function. During the document presentation process, annotations and video playback can be made to meet the needs of more content document presentation.

*Supports scanning QR code to upload multiple file formats during the meeting, including MP4, MP3, PDF, WORD, XLSX, text, JPG, PNG, etc., which can be directly viewed and annotated.

*Support whiteboard writing; support inserting image materials into the whiteboard; support multi-point writing; support gesture erasing, sliding screen clearing, circle eraser, pixel eraser and other erasing methods; with infinite canvas, two-finger zoom function; support multiple whiteboard file saving formats, which can be saved in PNG, PDF, WORD, PPT.

*The whiteboard supports OCR intelligent text recognition and graphic recognition functions, which can automatically convert the written fonts and patterns into standard text and graphics.

*Support full-channel annotation function, you can choose a variety of annotation saving methods, you can scan the code to take away or save to local, conference, U disk.

*Support PPT speech countdown mode.

*It has the function of archiving files after the meeting. The sign-in, voting results, and conference recording audio and video can be saved locally or uploaded to the comprehensive management platform.

II. Product comprehensive management platform functions:

*It has a smart conference management platform. The platform adopts B/S architecture and supports Windows, Linux, MacOS, Android, IOS and other operating systems to log in to the control software to meet different needs on site.

*The comprehensive management platform has multiple account permissions for ordinary users and administrators; the platform has a background data dashboard function, which can view the number of conference rooms, conference room usage, equipment online and offline status and user account status, and can count the number of daily participants, daily meeting duration, daily number of meetings, daily active users, etc. on a monthly, weekly and daily basis, which is convenient for statistical analysis and unified management without the need to configure a cloud platform separately.

*It has the function of creating meetings, and can reserve meeting rooms and meeting times in advance. After the reservation is successful, the device homepage will display the meeting list of the day in real time; the meeting list can view information such as the host and meeting time; it can set whether the meeting is encrypted and whether the data is allowed to be downloaded, and the historical meeting storage time can be set, which can be selected as 6 months, 12 months, or permanent.

*Support web-based login to the management platform, which allows you to view unit meetings and historical meetings. Historical meetings display the meeting name, meeting booker, meeting number, meeting start time, and whether the video is recorded. You can view/export pre-meeting sign-in and voting results, and meeting recordings.

*It has a meeting setting function, which allows you to set whether the meeting file is encrypted and enable file encryption. The meeting materials cannot be saved locally on the client and cannot be shared. The post-meeting materials cannot be viewed locally and can only be viewed and downloaded through the background.

III. Product video conferencing software functions:

*Built-in video conferencing software, supports ITU-T H.323 communication protocol, conference rate supports 128Kbps~8Mbps; supports H.264 Baseline Profile, H264 High Profile video protocol.

*Supports 640×480 30fps, 1280×720 30fps, 1920×1080 30fps, 2560×1440 30fps, 3840×2160 30fps, 4000×3000 25fps, 6000×8000 5fps HD resolution encoding and decoding.

*Integrated address book and call record function modules.

*Supports common functions such as switching templates and chairman control.

*Supports joining the corresponding meeting without registration, just enter the meeting number, and can choose to join in the meeting interactive mode or live broadcast mode.

*One-click convening of an immediate meeting can quickly create a virtual meeting on the MCU and automatically join the meeting. The venue can be invited to join the meeting. The meeting supports electronic whiteboard, file sharing, electronic voting, meeting sign-in and other functions.

*Supports scheduled meetings. You can select members, set meeting passwords, chairman passwords, live broadcast passwords, meeting time, etc. After submission, the MCU automatically convenes the meeting according to the meeting time. The meeting supports electronic whiteboard, file sharing, electronic voting, meeting sign-in and other functions.

*Supports switching from live broadcast mode to conference mode or from conference mode to live broadcast mode. The conference mode supports electronic whiteboard, file sharing, electronic voting, meeting sign-in and other functions.

*The screen layout supports automatic split screen function, automatically selects the appropriate layout according to the number of terminals joining the meeting and automatically opens the screen; supports automatic fill function, selects a fixed screen layout, and the terminal automatically opens in an idle window after joining the meeting.

*Supports data conference functions such as meeting sign-in, electronic whiteboard, electronic voting, file sharing, etc., to meet the application needs of scenarios such as remote meetings and training.

*Supports multi-screen layout, single screen supports 25 channels of screen display at the same time.

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Specification

Processor	Intel i3 11th generation processor, maximum turbo frequency 4.10GHz
System version	Windows 10 IoT Enterprise Entry
Memory	8GB
Storage space	128GB
Display type	LCD display
LCD panel	IPS
Backlight mode	DLED
Display size	86 inches (16:9)
Physical resolution	3840 (H) ×2160 (V)
Color gamut NTSC	85%
Color saturation	1.07B(10bit)
Screen brightness	350CD/㎡ (min.) 400CD/㎡(typ.)
Contrast ratio	1200:1(typ.) 5000:1(max)
Anti-blue light	Support
Anti-glare	Support
Display frame rate	60Hz
Viewing angle	178°(H/V)
Camera type	Magnetic camera, pluggable, plug and play
Camera privacy cover	Support
Camera pixels	48MP
Maximum field of view angle	118°±5°
Horizontal field of view angle	108°±5°
Lens focus	Autofocus
Distortion rate	No distortion
Angle adjustment	15° downward adjustment
Low illumination	New CMOS image sensor, using noise reduction algorithm to significantly reduce image noise, image signal-to-noise ratio ≥64dB
Drive standard	UVC/UAC national standard
Camera appearance dimensions (w*h*d)	301mm×61mm×46mm
Microphone pickup distance	12m
Input interface	1×LAN ; 1×TOUCH ; 1×HDMI-IN ; 1×DP-IN ; 1×VIDEO-IN (USB-C+reverse control) ; 1×LINE-IN ; 1×MIC-IN ; 4×USB-A ; 1×USB-C ; 1×RS232 ; 2×IO ; 2×RELAY
Output interface	1×HDMI-OUT ; 1×LINE-OUT
Touch sensing technology	Infrared sensing recognition touch technology
Touch output form	HID standard
Maximum number of input points	40 points
Response time	8ms(typ.)
Writing method	Finger, stylus and other opaque objects
Writing height	2.0mm
Touch accuracy	90% of the touch area is ±1mm
Two-point recognition distance	≥10mm
Theoretical number of clicks	Unlimited times
Touch diameter	Single point ≥1.6mm, multi-point ≥2mm
Glass specifications	3.2mm tempered glass
Writing screen surface hardness	9H
Glass haze	3%-8%
Visible light transmittance	≥88%
Optical depth	20mm
Color temperature (under signal source)	Min: 8000K ; Type: 9500K ; Max: 11500K
Interpolation resolution	32768 × 32768
Working voltage	DC 5V±5%
Touch screen power	≤2.5W
WiFi	WiFi6 2.4GHz/5GHz
Bluetooth	Bluetooth 5.2
Power supply	100-240V~50/60HZ input
Standard power consumption	≤460W
Standby power consumption	≤0.5W

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Audio channel	2.1 channels
Maximum audio power	2×20W @ 4Ω+1×32W @ 4Ω
Storage temperature	-10℃~+60℃
Storage humidity	10%~80%RH, non-condensing
Operating temperature	0℃~+40℃
Operating humidity	20%~80%RH, non-condensing
Operating altitude	≤5000m
Display size (length × height)	1895mm × 1066mm
Screen size (length × thickness × height)	1962.6mm × 98.2mm × 1149.4mm
Complete machine size (length × thickness × height)	1962.6mm × 102.3mm × 1155.3mm
Wall-mounted installation size (length × thickness × height)	1962.6mm × 126.1mm × 1196.1mm
Packaging size (length × thickness × height)	2095mm × 225mm × 1310mm
Thickness	102.3mm
Net weight	75.4kg
Gross weight	90.8kg
Casing color	Aurora purple
Casing material	Aluminum profile/sheet metal
Wall-mounted hole (VESA) 4-M8 screw hole	800mmx400mm