



Description

The smart meeting flat panel is designed for small and medium-sized meeting room scenarios, creating a small meeting center. The product integrates functions such as high-definition display, digital whiteboard, intelligent central control, and high-quality speakers; it is equipped with Windows 11 IoT system, meeting the needs of meeting presentation, writing, interaction, collaboration, sharing, video, data security, environmental monitoring and control, covering the entire meeting process.

Features

I. Product Hardware/Software Functions:

- *The 86-inch DLED LCD screen features full HD 4K system icons, a simple and business-style design, and is made entirely of aluminum alloy with a silver-gray color scheme. It boasts an ultra-narrow bezel design with a screen-to-body ratio of up to 90%, an ultra-thin screen body, hidden ports, and a simple yet elegant appearance.
- *It has a built-in non-standalone computer module, and all meeting functions run in the computer module, which uses a genuine and activated Windows 11 IoT operating system.
- *Supported languages: Simplified Chinese, Traditional Chinese, English, French, Russian, Arabic, and Portuguese.
- *The data files are encrypted using the national cryptographic algorithms SM2 and SM3, and the encryption is maintained 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 capability.
- *It features 12 magnetic pogo-pin connectors and supports an optional smart camera module (comprising a detachable 48MP high-definition camera and an 8-microphone array). This setup eliminates the need for separate cabling and employs physical safeguards to prevent the leakage of meeting information. The camera module includes a rotary privacy shutter, allowing users to cover the lens when not in use to ensure privacy and security. AI noise reduction can automatically eliminate 300 common noises, such as keyboard typing, chair moving, and air conditioner vibration.
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- *Ultimate audio experience: The product adopts a 2.1 channel design with 3 sound chambers: 1×32W (bass) + 2×20W (mid-high frequency) slit speakers; it has 5 sound effect options (standard, conference, vocal, music, cinema) to meet the needs of different scenarios.
- *The front panel includes 2 USB-A ports and 2 USB-C ports. The VIDEO IN port is a full-function Type-C interface, enabling screen mirroring, reverse control, and audio/video signal transmission. All USB ports support 3.0 high-speed transmission.
- *It features 1×HDMI OUT loop-out/extension interface, 2×HDMI IN and 1×DP IN input interfaces, and supports 4K 60Hz.
- *It features a smart button, built-in infrared sensor, temperature and humidity sensor, and light sensor, and incorporates IoT sensing technology to support real-time monitoring and display of temperature and humidity. It also automatically adjusts the brightness of the all-in-one machine according to ambient light to provide the most comfortable display brightness.
- *It features one RS232 interface, two IO interfaces, and two RELAY interfaces for IoT central control, facilitating integration and management with other devices, enabling intelligent environmental control, and enhancing user experience and comfort.
- *It has a built-in battery and supports abnormal power failure protection. After an abnormal power failure, the internal battery will be activated to automatically save meeting data and meeting progress, and it can continue to be used after power is restored.
- *With 85% NTSC high color gamut, the image is clear, the colors are vibrant and saturated, and the details of the picture are reproduced in a true way.
- *It features a hardware-level blue light protection mechanism with a blue light ratio of less than 25%, effectively filtering and reducing the radiation of high-energy short-wave blue light, achieving the effect of not causing eye fatigue during long-term viewing and protecting the user's eye health.



- *The display uses high-precision touch technology, which can accurately recognize touch objects with a diameter of 1.6 mm, ensuring a delicate operating experience.
- *The entire screen and screen protector use zero-lamination technology to effectively prevent light reflection.
- *Made with advanced anti-glare (AG) tempered glass, it effectively suppresses ambient light interference and screen reflection, significantly reducing visual discomfort caused by glare and ensuring viewing comfort while providing a softer visual experience.
- *It supports device detection functions, which can detect the integrity of the motherboard hardware and whether the external devices are functioning properly.
- *It supports signal source preview function. After connecting a signal source, you can preview the PC, HDMI IN, DP IN and Type-C signal source images in the signal source menu bar; one-click switching.
- *It supports gaze-based power-on, and can be powered on via gaze in fast power-off mode.
- *It supports waking up the device when it is powered off via the network port or RS232 interface.
- *It supports multiple wake-up methods. In the screen-off state, the device can be woken up by keeping your gaze on, lifting the pen to wake up, double-tapping the touch screen, or pressing a button. The gaze wake-up method allows you to customize the gaze duration, while lifting the pen allows you to quickly access the whiteboard and annotation functions.
- *It supports optional smart camera modules to enable AI voice assistant functions, allowing users to operate main functions via voice assistant, such as starting a meeting, ending a meeting, turning off the screen, and shutting down the device.
- *It features a borderless document design, automatically entering document presentation mode when users open a document, where the document content is displayed in full screen. During the document presentation, users can annotate, play videos, use a split-screen whiteboard, insert image materials with unlimited image overlay, and save the document as a PDF after annotating each page, meeting the needs of displaying more document content.
- *It features a pre-meeting welcome screen with the ability to add background audio, video, and images, and allows for customizable welcome screen themes.
- *It features a quick meeting mode to meet the needs of impromptu meetings, group discussions, brainstorming, and other activities.
- *It features a confidential meeting mode, where meeting materials cannot be downloaded after a confidential meeting is initiated, and the meeting materials are automatically destroyed after the meeting; materials used during the meeting and temporarily cached files are automatically encrypted and cannot be opened after the meeting ends; it also features an interface watermark that covers the entire meeting to prevent taking photos or recording videos and leaking meeting information.
- *It features a meeting mode and a simple mode switching function. In the simple mode, only the whiteboard, screen projection, and document presentation are retained on the main interface; it also supports a quick return to Windows function.
- *It supports two voting modes: QR code voting (with options for anonymous or real-name voting, and supports various customizable options such as single choice, multiple choice, and rating) and intelligent hand-raising voting (automatically counting the number of hands raised on-site using AI visual recognition technology). The system has built-in standardized templates for voting, satisfaction surveys, and more. All voting data is statistically analyzed in real time and automatically generated into visual reports (supporting bar charts and tables), ensuring an efficient and transparent meeting decision-making process.
- *It has a QR code check-in function, allowing participants to check in and view their names immediately during the meeting. After scanning the QR code to check in, the name of the person who checked in is displayed in real time. It also has a multi-person facial recognition check-in function.
- *It features meeting screen recording functionality, supporting 2K and 4K resolution options. It also supports multiple save methods: scan a QR code to take the recording with you, or save it locally, to the meeting, or to a USB drive.
- *It supports multiple screen projection methods, including NFC tap transfer, wireless projection, wired projection, and one-click projection with a projection device; it supports mixed projection display of mobile phones and computers, and up to four screens can be displayed simultaneously; the computer side supports reverse operation of the projected content.
- *Supports screen mirroring from other applications, such as specific browsers or documents; other application messages will not pop up, allowing you to handle other tasks while mirroring, thus protecting your privacy.
- *It supports mixed split-screen, allowing whiteboard, dynamic video, audio, documents, annotations and other pages to be displayed simultaneously during the meeting. It can display any split screen in full screen or compare different solutions, and supports 8 split screens.
- *It supports uploading files in advance through the smart meeting management platform and allowing users to view them directly after joining the meeting via the smart meeting tablet; it also supports multiple meeting tablets joining the meeting simultaneously to view files.
- *It supports the use of shared documents and shared whiteboards, enabling multiple conference tablets to collaborate simultaneously; by joining a meeting via a conference ID, one can share whiteboards and cloud drive files for remote collaboration.
- *Supports fast file transfer, allowing you to scan QR codes to upload various file formats, including MP4, MP3, PDF, WORD, XLSX, text, JPG, PNG, etc. It also supports WeChat chat files, which can be directly viewed and annotated, and can be quickly inserted into the whiteboard.
- *Supports whiteboard writing; supports inserting images, Office documents, PDFs, document files, videos, and other materials into the whiteboard; supports table insertion, with gesture-based row and column addition/reduction; supports mind map insertion; supports canvas preview; supports multi-point writing; supports gesture erasure, swipe to clear screen, selection eraser, pixel eraser, and other erasing methods; features an unlimited canvas and two-finger zoom; supports multiple whiteboard file saving formats, including PNG, PDF, WORD, and PPT.



- *The whiteboard supports OCR intelligent text and image recognition functions, which can automatically convert handwritten fonts and patterns into standard text and graphics.
- *It supports full-channel annotation functionality and offers multiple annotation saving methods, including scanning a QR code to take away or saving to local storage, meetings, or USB drives.
- *Supports countdown mode for PPT presentations.
- *It has a post-meeting document archiving function, and meeting attendance, voting results, and meeting recordings (audio and video) can be saved locally or uploaded to the integrated management platform.
- *It supports long-pressing with five fingers or configuring it as a floating ball to wake up the disc menu bar, and supports quick opening of applications; it supports custom disc menu applications, including tools such as Tencent Meeting, check-in, voting, decision-making, photo taking, signature wall, calculator and so on.
- *It has an app store where users can download, install, and uninstall apps as needed.
- *It features an AI meeting consultant function and supports integration with large AI meeting models. During the meeting, participants can ask questions via voice, and the AI assistant will generate accurate answers and display them in a dedicated answer box.
- *It features an AI intelligent assistant function, which can control the smart meeting tablet to open files, turn on the whiteboard, and perform other functions; it also supports pairing with a central control system to control meeting room lights, curtains, and air conditioning via voice.
- *It features AI-powered file retrieval capabilities, supports integration with AI-powered conferencing models, and allows for quick retrieval and opening of files in local storage and cloud drives via natural voice commands, significantly improving file search efficiency. It supports multi-dimensional search experiences based on filename, file type, time information, usage frequency, and more, as well as progressive voice-guided questioning for secondary filtering, accurately locating target files.
- *It features AI-powered meeting minutes, recording audio files during meetings and intelligently extracting and summarizing meeting content afterward, generating meeting summaries, agendas, decisions, to-do items, meeting keywords, etc., which can be viewed via web browser and WeChat mini-program.
- *It features AI speech synthesis capabilities and supports voice broadcasting of content generated by large models.
- *It features AI model switching capabilities and supports various large-scale model dialogue experiences, such as Doubao, DeepSeek-V3, and DeepSeek-R1 series.

II. Functions of the Product Integrated Management Platform:

- *It features a smart meeting management platform with a B/S architecture, supporting login and control software on operating systems such as Windows, Linux, MacOS, Android, and iOS to meet different on-site needs.
- *The management platform offers various account permissions for both regular users and administrators. It features a backend data dashboard that displays the number of meeting rooms, meeting room usage, device online/offline status, and user account information. It can also provide monthly, weekly, and daily statistics on attendees, meeting duration, number of meetings, and daily active users, facilitating statistical analysis and unified management without requiring a separate cloud platform.
- *Administrators have user management privileges, including the ability to invite users to join, edit user names, departments, job titles, and upload photos; administrators can disable or enable regular users; and batch import of accounts is supported.
- *It features a meeting creation function, allowing users to book meeting rooms and meeting times in advance. After a successful booking, the device's homepage displays a list of meetings for the day in real time. The meeting list shows information such as the host and meeting time. Users can set whether the meeting is encrypted and whether materials can be downloaded. They can also set the retention period for historical meetings, with options for 6 months, 12 months, or permanent. It supports uploading meeting files in advance through a smart meeting management platform and creating polls and scores.
- *It supports web login to the management platform, allowing users to view unit meetings and historical meetings. Historical meetings display the meeting name, meeting booker, meeting number, meeting start time, and whether video was recorded. Users can view/export pre-meeting check-in and voting results, as well as recorded meeting videos. Meetings can be copied to quickly create recurring meetings, and batch deletion of meetings is supported.
- *It supports equipment management functions, including batch operation of equipment power on/off, equipment inspection, remote control, and text/wallpaper push functions.
- *It has meeting settings functions, which can set whether meeting files are encrypted. If file encryption is enabled, meeting materials cannot be saved to the client's local machine or shared. After the meeting, the materials cannot be viewed locally but can only be viewed and downloaded through the backend.
- *It features AI model application mini-program functionality, supports registration and login to the cloud platform; supports inviting and creating organizations; supports meeting scheduling, meeting room management, equipment control, and other functions; and supports viewing meeting minutes.

III. Product Video Conference Software Functions:

- *Built-in video conferencing software supports the ITU-T H.323 communication protocol, with a conference rate of 128Kbps~8Mbps; it also supports H.264 Baseline Profile and H.264 High Profile video protocols.
- *Supports high-definition resolution encoding and decoding of 640×480 30fps, 1280×720 30fps, 1920×1080 30fps, 2560×1440 30fps, 3840×2160 30fps, 4000×3000 25fps, and 6000×8000 5fps.



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TV-S8186D

- *It integrates contact list and call log functions.
- *It supports common functions such as template switching and chairman control.
- *It supports joining meetings without registration; simply enter the meeting number to join, and you can choose to join in interactive or live meeting mode.
- *It supports one-click instant meetings, allowing users to quickly create a virtual meeting on the MCU and automatically join the meeting. It also allows inviting other participants to join the meeting and supports features such as electronic whiteboard, file sharing, electronic voting, and meeting check-in.
- *It supports scheduling meetings, allowing users to select members, set meeting passwords, chairperson passwords, live streaming passwords, and meeting times. After submission, the MCU will automatically start the meeting according to the meeting time. The meeting supports features such as electronic whiteboard, file sharing, electronic voting, and meeting check-in.
- *It supports switching between live streaming mode and meeting mode, and the meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting check-in.
- *The screen layout supports automatic split-screen function, which automatically selects a suitable layout and opens the screen based on the number of participating terminals; it also supports automatic fill function, which allows you to select a fixed screen layout and automatically open the screen in an empty window after a terminal joins the meeting.
- *It supports data conferencing functions such as meeting check-in, electronic whiteboard, electronic voting, and file sharing, meeting the application needs of remote meetings, training, and other scenarios.
- *It supports multi-screen layout, with a single screen supporting the simultaneous display of 25 screens.

Specification

1.Processor	Intel i5 12th generation processor, maximum turbo frequency 4.40GHz
2.System version	Windows 11 IoT Enterprise Entry
3.Memory	8GB
4.Storage space	128GB
5.Display type	LCD (Liquid Crystal Display)
6.LCD panel	IPS
7.Backlight method	DLED
8.Display size	86 inches (16:9)
9.Physical resolution	3840 (H) × 2160 (V)
10.Color gamut NTSC	85%
11.Color density	1.07B (10-bit)
12.Screen brightness	350 cd/m ² (min.) 400 cd/m ² (typ.)
13.Contrast ratio	1200:1 (typ.) 5000:1 (max)
14.Blue light protection	Supported
15.Anti-glare	Supported
16.Display frame rate	60Hz
17.Angle of view	178° (H/V)
18.Input interfaces	1*LAN; 1*TOUCH; 2*HDMI-IN; 1*DP-IN; 1*VIDEO-IN (USB-C + reverse control); 1*LINE-IN/MIC-IN; 4*USB-A; 1*USB-C; 1*RS232; 2*IO; 2*RELAY
19.Output interfaces	1×HDMI-OUT (mirror/extension); 1×LINE-OUT
20.Touch sensing technology	Infrared sensing and touch recognition technology
21.Touch output format	HID standard
22.Maximum number of points	40
23.Response time	8ms (typ.)
24.Writing method	fingers, styluses, and other opaque objects.
25.Writing height	2.0mm
26.Touch accuracy	±1mm for the middle 90% touch area
27.Two-point recognition distance	≥10mm
28.Theoretical number of clicks	Unlimited
29.Touch diameter	Single point ≥ 1.6mm, multiple points ≥ 2mm
30.Glass specifications	3.2mm tempered glass
31.Surface hardness of writing screen	9H
32.Glass haze	3%-8%
33.Visible light transmittance	≥88%
34.Optical Depth	20mm
35.Color temperature (at source)	Min: 8000K; Type: 9500K; Max: 11500K
36.Interpolation resolution	32768 × 32768
37.Operating voltage	DC 5V±5%
38.Touchscreen power consumption	≤2.5W



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39.WiFi	WiFi6 2.4GHz/5GHz
40.Bluetooth	Bluetooth 5.2
41.Power supply	100-240V~50/60Hz input
42.Standard power consumption	≤460W
43.Standby power consumption	≤0.5W
44.Audio channels	2.1 channels
45.Maximum audio power	2*20W @ 4Ω + 1*32W @ 4Ω
46.Storage temperature	-10℃ to +60℃
47.Storage humidity	10%~80%RH, non-condensing
48.Operating temperature	0℃ ~+40℃
49.Operating humidity	20%~80%RH, non-condensing
50.Working altitude	≤5000m
51.Display dimensions	1897mm × 1068mm
52.Screen dimensions	1957.6mm × 116.9mm × 1151.4mm
53.Overall machine dimensions	1957.6mm × 120.9mm × 1157.2mm
54.Wall-mounted installation dimensions	1957.6mm × 146.6mm × 1199mm
55.Packaging dimensions	2044mm × 200mm × 1280mm
56.Thickness	120.9mm
57.Net weight	75.41kg
58.Gross weight	90.8kg
59.Outer shell color	silver-gray
60.Shell material	Aluminum profile/sheet metal
61.Wall mount mounting holes (VESA) 4-M8 screw holes	800mm × 400mm
62.Service life	50,000 hours (min.)