



Intelligent interactive flat panel

TV-S8175D



Description

The intelligent interactive 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 75-inch DLED LCD screen features full HD 4K system icons, a simple and business-style design, an all-aluminum alloy body with an aurora purple color scheme, 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 and 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.
- *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.
- *It features a full-function Type-C interface, enabling screen mirroring, reverse control, and audio/video signal transmission. All USB interfaces support 3.0 high-speed transmission.
- *It features an HDMI loop-out/extension interface, HDMI and DP 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 has an IoT central control interface, which facilitates integration and management with other devices, enabling intelligent environmental control and improving 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.



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- *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 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 and has voice assistant functionality, 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 mirroring a specific browser or document; messages from other applications will not pop up, and other tasks can be handled during the mirroring process to protect 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 4 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.
- *It supports uploading various file formats during meetings by scanning a QR code, including MP4, MP3, PDF, WORD, XLSX, text, JPG, PNG, etc., which can be viewed and annotated directly.
- *Supports whiteboard writing; supports inserting image materials into the whiteboard; supports multi-point writing; supports various erasing methods such as gesture erasure, swipe to clear the screen, selection eraser, and pixel eraser; features an unlimited canvas and two-finger zoom function; 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 to activate the circular menu bar and allows for quick app opening; it also supports customizable circular menu apps, including tools such as Tencent Meeting, check-in, voting, decision-making, photo taking, signature wall, and calculator.
- *It has an app store where users can download, install, and uninstall apps as needed.
- *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 also disable or enable regular users.
- *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-based login to the management platform, allowing users to view unit meetings and historical meetings. Historical meetings display the meeting name, the person who booked the meeting, the meeting number, the meeting start time, and whether a video was recorded. Users can also view/export pre-meeting check-in and voting results, as well as the recorded meeting video.
- *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.

III. Product Video Conferencing 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.
- *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

Processor	Intel i5 12th generation processor, maximum turbo frequency 4.40GHz
System version	Windows 11 IoT Enterprise Entry
Memory	8GB
Storage space	128GB
Display type	LCD (Liquid Crystal Display)
LCD panel	IPS
Backlighting method	DLED
Screen size	75-inch (16:9)
Physical resolution	3840 (H) × 2160 (V)
NTSC color gamut	85%
Color saturation	1.07B (10-bit)
Screen brightness	350CD/m ² (min.) 400CD/m ² (typ.)
Contrast	1200:1 (typ.) 5000:1 (max)
Blue light protection	support
Anti-glare	support
Display frame rate	60Hz
Perspective	178°(H/V)
Input interface	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
Output interface	1×HDMI-OUT (Mirror/Extension); 1×LINE-OUT
Touch sensing technology	Infrared sensing and touch technology
Touch output format	HID Standard
Maximum number of input points	40 points
Response time	8ms (typ.)
Writing style	Optical objects such as fingers and styluses
Writing height	2.0mm
Touch accuracy	The middle 90% touch area is ±1mm
Two-point recognition spacing	≥10mm
Theoretical number of clicks	Unlimited times
Touch diameter	Single point ≥1.6mm, multiple points ≥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 (below the source)	Min: 8000K; Type: 9500K; Max: 11500K
Interpolation resolution	32768 × 32768
Operating voltage	DC 5V±5%
Touchscreen power	≤2.5W
WiFi	WiFi 6 2.4GHz/5GHz
Bluetooth	Bluetooth 5.2
Power supply	100-240V~50/60Hz input
Standard power consumption	≤460W
Standby power consumption	≤0.5W
Audio channels	2.1 channel
Maximum audio power	2*20W @ 4Ω + 1*32W @ 4Ω
Storage temperature	-10°C~+60°C
Storage humidity	10%~80%RH, non-condensing
Operating temperature	0°C~+40°C
Operating humidity	20%~80%RH, non-condensing
Working altitude	≤5000m
Display dimensions	1651.7mm × 929.9mm
Screen dimensions	1711.9mm × 116.9mm × 1012.4mm
Overall machine dimensions	1711.9mm × 120.9mm × 1018.2mm
Wall-mounted installation dimensions	1711.9mm × 146.6mm × 1060mm
Packaging dimensions	1790mm×200mm×1135mm
Thickness	120.9mm
Thickness	61.1kg
Gross weight	72.5kg
Casing color	silver-gray



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Specification

Shell material	Aluminum profiles/sheet metal
Wall mount holes (VESA) 4-M8 screw holes	600mm × 400mm
Service life	50,000 hrs (min.)