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IR Touch Interactive Flat Panel Display Datasheet

Model	LT86	
Product picture		
Display Specification		
Diagonal display size		86(inch)
Bezel color	Aluminum frame White,(Black option)	√
Panel type	Ultra HD Direct type LED	√
Active area (mm)		1895.04 * 1065.96(V)
Resolution	3840*2160 /60hz	√
Pixel Pitch		0.4935 mm x 0.4935 mm
Hardness Glass	Mohs-7 level (9 level option)	√
Glass Panel	Anti-Glare glass with zero bonding	√
Aspect Ratio	16:9	√
Contrast Ratio	1200:1	√
Dynamic Contrast Ratio	5000:1	√
Brightness	400cd/m2	√
Color depth	1.07 billion colors	√
Viewing angle	178°	√
Lifespan	50,000 hours	√
Touch Type		
Touch Technology	IR touch	√
Multi Touch	Max 50 points(Windows)	√
Touch Precision	1 mm	√
Auto-Calibration	YES	√
Anti-light	YES	√
Minimum object size	2mm	√
Touch Response Time	2ms	√
Supporting OS	Windows 7/8/10/11; Android; Mac; Linux; Chrome OS	√
Sound		
Front Speakers	20W*2	√
Subwoofer	20W*1	√
Total Power Amplifiers	≦60w	√
Microphone		
Type	Wide-area microphones	√
Number of Microphones	8	√
Auto switch (Windows/Central)	Yes	√
Whiteboard Camera & Sharing		
Number of images	48MP	√
Maximum resolution and frame rate	8000*6000@5fps 4200*3120@20fps 3840*1920@30fps	√
FOV(field of view)	D=119 ° H=97 ° V=74 °	√
Front Side Connections		
Front Ports	USB 3.0*2、USB-B*1、HDMI*3、TYPE-C*1	
Front Keys	Power on/off; Signal source; Source; ECO; Menu; Volume down; Volume up	
Bottom Side Connections		
RJ45 IN	1	√
RJ45 OUT	1	√
TOUCH- B	3	√
TYPE-C in	1	√
HDMI in 2.0	3	√
HDMI OUT	1	√
DP IN 1.2	1	√
Android USB2.0	1	√
Public USB3.0	2	√
TYPE C OUT	1	√
TF Card	1	√

COAX	1	√
MIC IN	1	√
EARPHONE	1	√
PC AUDIO	1	√
RS232	1	√
VGA	1	√
HDMI in 2.0	1	√
TYPE-C	1	√
DP in	1	√
DVI in	1	√
DVI Audio in	1	√
Wifi	IEEE 802.11a/b/g/n/ac/ax, Wifi 6(WFA certified)	
Riotouch Central		
Android Version	Android 15.0	√
Chip	Rockchip RK3588	√
CPU	quad-core Cortex-A76 and quad-core Cortex-A55, 2.2~ 2.4GHz	√
GPU	Mali-G610 MC4	√
NPU	6T	√
RAM	16GB	√
Flash	256GB	√
Compliant with	Windows; Mac; Linux; Chrome OS	√
OTA	Yes	√
Light Sensor	Yes	√
General Information		
Power Supply	~ 100-240 V (50/60Hz)	√
Standby Energy	≤ 0.5 Watt	√
Power Consumption		Maximun< 350W Eco<75W
Net Weight	(KG±2)	70
Gross Weight	(KG±2)	85
Screen Dimensions	(WxDxH)	1953*102*1164 mm
Dimensions Package	(WxDxH)	2055*168*1272mm
VESA Standard	(mm)	600*800 mm
Certificates	CE: EMC + LVD / RoHS / REACH / FCC/CCC	√
Warranty	ONE year for the whole product and THREE years for touch parts by	√
Environmental conditions		
Operating Temperature	0℃ - 40℃/32 - 100 °F	√
Storage Temperature	-20℃ - 60℃/-4 - 140 °F	√
Storage Humidity	10 % - 90 %	√
Usage Humidity	10 % - 90 %	√
Accessories		
Accessories	WIFI antenna*3pcs; No ink pen * 2pcs, Remote control *1pcs, 1.5m power cord *1pcs, 1.5m HDMI cable *1pcs, 1.5m USB touch cable *1pcs; wall mount kit	
Software Ecosystem (COLLABORATIVE)		
It allows collaboration and participation in educational or corporate environments through annotation, presentation, and collaborative work tools. With functionalities based on artificial intelligence or intelligent tools for the following activities: Handwriting recognition.		
Software Ecosystem (AI Functions)		
Information search. Note or summary generation. Content transcription. Voice command assistance. WIRELESS SIMULTANEOUS CONNECTIONS COMPATIBLE VIDEO CONFERENCING TOOLS WITH USER PROFILES AUTHENTICATION INTEGRATED TOOLS		
Software(Whiteboard)		
Handwriting recognition Basic geometric shape recognition Insertion of images, PDF documents, videos, and multimedia resources Export of content in PDF, image, or editable formats.		
Wireless Screen Sharing Software		
allow wireless screen sharing from Windows, Android, macOS, ChromeOS, or iOS devices, without the need for additional hardware.		
support the simultaneous connection of multiple users or devices for collaborative activities, according to the manufacturer's capabilities. It must be compatible with widely used videoconferencing platforms such as Google Meet, Microsoft Teams, Zoom, etc.		

allow the use of institutional accounts or user profiles, either locally or through cloud services.	
Authentication via NFC, QR code, institutional credentials	
Include integrated productivity tools, such as a web browser, document viewer, note-taking applications, timer, stopwatch, polling, random selection, or other equivalent functionalities.	
Artificial Intelligence (AI) Capabilities	
AI Voice Assistant	Supports advanced Natural Language Processing (NLP) for voice commands, device control, and application management.
Intelligent Recognition	Built-in high-speed OCR for Handwriting-to-Text and Smart Shape Correction, converting sketches into precise digital geometric forms.
AI-Powered Lesson Prep	Automated generation of lesson plans, formative quizzes, and multimedia resources based on curriculum keywords.
Live Captioning & Translation	Real-time Speech-to-Text transcription of lectures into on-screen captions with simultaneous multi-language translation.
Vision Roll (AI Attendance)	Utilizing a 48MP AI camera for automated Facial Recognition to track and log student attendance by class, grade, and school.
Engagement & Posture Analysis	AI camera monitors classroom atmosphere by analyzing student attention levels, eye contact, and sitting posture in real-time..
Automated Assessment	Scans and analyzes student assignments or test papers via the touch screen for instantaneous grading and diagnostic error feedback.
Educational Resources & Content	
Interactive STEM Resources	Pre-installed with PHET Interactive Simulations (fully authorized) covering Physics, Chemistry, and Math to support inquiry-based learning.
Built-in 3D Resource Library	Includes over 300+ professional 3D resources across various subjects (Biology, Physics, Chemistry, etc.), allowing teachers to rotate, zoom, and interact with complex models.
Tiered Resource Management	Supports school-owned or regional resource spaces with tiered authorization, allowing content sharing and management at school, teacher, and student levels.
Universal File Reader	Seamlessly opens and annotates over high-level educational formats including PBN, OBJ, CAD, and interactive 3D files directly within the whiteboard.
Cloud Interaction & Management (DMS)	
Device Management (DMS)	Centralized cloud-based control for remote power, security locking, hardware diagnostics (Camera/Touch/Mic), and OTA firmware updates.
Cloud Integration	Seamless synchronization with Google Drive and OneDrive. Features an AI Library for voice-activated resource inquiries.
Collaborative Interaction	Supports Plyvoice (remote meeting join via QR) and Interactive Voting tools with real-time result visualization on all connected devices.
Cloud-Based CMS	Features a powerful Content Management System allowing administrators to remotely push multimedia content, emergency alerts, and school notifications to all connected displays.
Multi-Level Account Management	Supports a hierarchical account system, including Super Administrators, Institutional Administrators, and Individual Users, to manage the entire device fleet efficiently.