



IR Touch Interactive Flat Panel Display Datasheet

Model		LTRK3588PRO	
Product picture			
Display Specification			
Diagonal display size			86(inch)
Bezel color	Aluminum frame White,(Black option)		√
Panel type	Ultra HD Direct type LED (D-LED)		√
Active area (mm)			1895.04 * 1065.96(V)
Resolution	3840*2160 /60hz/4K UHD		√
Pixel Pitch			0.4935 mm x 0.4935 mm
Hardness Glass	Mohs-9 level 3,2mm		√
Glass Panel	Anti-Glare, anti-fingerprint glass with zero bonding		√
Aspect Ratio	16:09		√
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		√
Touch Precision	1 mm		√
Auto-Calibration	YES		√
Touch Resolution	32768 x 32768		√
Anti-light	Yes		√
Minimum object size	2mm		√
Touch Response Time	2ms		√
Supporting OS	Windows 7/8/10/11; Android; MacOS X; Linux; Chrome OS		√
Sound			
Front Speakers	20W*2		√
Subwoofer	20W*1		√
Total Power Amplifiers	≅ 60w		√
Echo Cancellation	Yes		√
Microphone			
Type	Integrated wide-area microphones		√
Number of Microphones	8		√
Noise Reduction	Yes		√
Maximum range	12 Meters		√
Whiteboard Camera & Sharing			
Number of images	48MP with IA		√
Maximum resolution	3840*2160 UHD 4K		√
FOV(field of view)	D=119 ° H=97 ° V=74 °		√
Supporting OS	Windows 7/8/10/11; Android; MacOS X; Linux; Chrome OS		√
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	√
USB2.0	3	√
TYPE C OUT	1	√
TF Card	1	√
OPS Slot	1	√
SPDIF 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	√
EDLA Certification	Yes	√
Play Store	Yes	√
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	√
Bluetooth	5.1	√
NFC reader	Yes	√
OTA	Yes	√
Light Sensor	Yes	√
General Information		
Power Supply	~ 100-240 V (50/60Hz)	√
Working Time	16/7	√
Standby Energy Consumption	≤ 0.5 Watt	√
Power Consumption		Maximun<350W / Average Typical <270W / 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)	800*600 mm
Certificates	CE: EMC + LVD / RoHS / REACH / FCC/CCC/CB/ Energy Star	√
Warranty	THREE years by default. (can be extended, it's for an option)	√
Environmental conditions		
Operating Temperature	0℃ - 40℃/32 - 100 °F	√
Storage Temperature	-20℃ - 60℃/-4 - 140 °F	√
Storage Humidity	10 % - 90 %	√
Usage Humidity	10 % - 90 % RH	√
Accessories		
Accessories	WIFI antenna*3pcs; No ink pen * 2pcs, Remote control *1pcs, 3m power cord *1pcs, 3m HDMI cable *1pcs, 3m USB touch cable *1pcs, 3m USB cable *1pcs, wall mount kit, mobile support, User manual Spanish/English	
Software Ecosystem (COLLABORATIVE WHITEBOARD UMIND)		
Integrated Umind whiteboard software featuring a perpetual license and lifetime updates; supports writing with multiple colors and line thicknesses, handwriting recognition, basic geometric shape recognition, insertion of images, PDF documents, videos, and multimedia resources, content export in PDF, image, or editable formats, as well as recognition, search, speech-to-text, AI translation, question and lesson generation, annotation, split-screen view, polling, multitasking, and whiteboard tools; compatible with Google Classroom; supports live streaming without additional software, enables collaboration and participation in educational or corporate environments through annotation, presentation, and collaborative work tools.		
Software Ecosystem (AI Functions)		
Artificial intelligence with smart tools that enables handwriting recognition, information retrieval, note or summary generation, content transcription, and voice-command assistance.		
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, users, and tools	
Wireless screen sharing from Windows, Android, macOS, ChromeOS, or iOS devices, without the need for additional hardware.	
Simultaneous connection of multiple users and devices for collaborative activities, multiple devices connected simultaneously, with a maximum capacity of up to 9 at the same time, compatible with videoconferencing platforms Google Meet, Microsoft Teams, Zoom, etc.	
You can create institutional accounts or user profiles, either locally or via cloud services.	
Authentication via NFC, QR code or PIN	
Tools for screen recording, random selection, vision testing, widget creation, shortcut menu, tactical board, split-screen view, and timed questions all within the proprietary DaisyOS interface developed exclusively for Riotouch machines, featuring a lifetime license and updates.	
Integrated productivity tools, web browser, document viewer, note-taking apps, timer, stopwatch, polling, random selector, periodic table, 3D models, set square, ruler, protractor, concept maps.	
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 and monitoring for remote control machine and power on/off, security locking, hardware diagnostics (Camera/Touch/Mic), basics configuration mode, apk's management 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.

