KMt LED

E1-Ultra
Smart interactive whiteboard

· 86-inch 4K QLED display with Optical bonding technology that delivers a clear image in sharp, vivid colors.
· Wireless screen sharing from multiple devices with an intuitive, easy-to-use system.
· 8-Cores CPU，16GB(32G)+ 256GB， Strong Software Design
· 6 physical front buttons for quick access
· Smooth writing experience & handwriting
· Quick file sharing by scanning a QR code
· Switches between Android and Windows, and OPS module is optional.

Series Overview

Smart Interactive Whiteboard for education has powerful processing capabilities with its **8-core** CPU and up to **16 GB** (32G)RAM and **256GB** storage capacity. Equipped with a high-precision infrared frame with a 1 mm identification diameter, and a 4K high-definition QLED module, this whiteboard will give you an extraordinary experience with writing, controlling the whiteboard and displaying content on it. It features wireless screen sharing, file management, Interactive display, scan & share, and more smart functions to enhance your experience. You can rely on this whiteboard to modernize your classrooms.

Functions

4K HD Display
With up to 3840 × 2160 resolution, the 4K HD display delivers a clear image in sharp, vivid colors.

AI Recognition of Drawings
Identifies hand-drawn structures such as   triangles, circles...
And turn your handwriting into stand words automatically

File Management
Supports managing and using Office files, image, video and audio files,and file formats such as PDF and TXT.

Backlight technology
COB blue light
Quantum dot optical film
Local Dimming 1000+ Zone

Screen Sharing
The content on your screen can be freely shared with one other device through a wired connection.

Wireless Screen Sharing
In addition to basic file sharing, the device offers wireless screen sharing, interactive operations between two screens, and reverse transmissions. It also supports screen grouping (multiple transmission), host mode (for overall permission control), real-time transmission of images, videos and audios from   the mobile phone to the device, and split-screen mode that displays up to 4 splits on the same screen.

Hidden Antenna Design
The Wi-Fi and hotspot antenna is neatly concealed and be foldable and plugable   in the back   of the device, ensuring the stability of the signal strength when using a flush mount, and giving the device its simple and sleek appearance.

Similar to Real Writing Experience
The electronic whiteboard supports pen-point writing. It comes equipped with specialized pressure-sensitive writing pens, designed to enhance the writing experience. With its soft, comfortable nib, writing on the whiteboard feels natural, similar to the real writing experience

Scene
The Edu series is ideal for use in classrooms and other indoor sites.

Technical Specification

Built-in System

Operating System	Android 15
CPU/GPU	A76*4+A55*4 / G610 MC4
RAM	16 GB/ 32G
ROM	256GB

LCD Panel

Panel Dimensions	86 inch
Backlight	Q- LED Local Dimming
Aspect Ratio	16:09
Brightness	600 cd/m² (typ.)
Contrast	1200：1 (typ.)
Resolution	3840 × 2160
Viewing Angle	178° (H) / 178° (V)
Lifespan	50,000 hours
Display Color	10bit，1.07B
Response Time	8 ms (typ.)
Refresh Rate	60 Hz

Device Ports

Light Sensor	Yes
Front Button	8 buttons (Return, Volume Down/Up, menu, Home, Power)
Front Ports	Type C × 1 (4K@60 Hz, Touch) HDMI In × 1 (4K@60 Hz) USB 3.0 Type- B × 1 (Touch) USB 3.0 Type A × 3
Rear/bottom Port	HDMI In ×3 (4K@60 Hz) HDMI Out × 1 USB Type-C × 2 USB 3.0 Type A × 2 USB 2.0 × 1 Touch USB 3.0 × 3 RS-232 × 1 RJ45 In × 1 RJ45 Out × 1 DP in x 1 VGA x 1 Audio in × 1 COAX out x 1 LINE out × 1 OPS slot × 1

Function

IR Receiver	Yes
Camera	50MP/50MP+AI
Micphone	8pcs
Bluetooth	Bluetooth 5.2
Wi- Fi	WIFI 6, 2.4 GHz Integrated WiFi 802.11 b/g/n/ac, supports PEAP/EAP-GTC authentication protocol within 802.lX
Wireless Access Point	WIFI 6, 5 GHz; Supports enabling Hotspot and Wi- Fi at the same time

Touchscreen

Touch Technology Type	Infrared touch technology
Attachment Method	Optical bonding
Response Time	≤ 2.0 ms
Touch Points	Android: 20, Windows: 50
Touch Accuracy	± 0.5 mm (over 90% Area)
Valid Touch	1.5 mm
Touch Height	≤ 0.99mm
Writing Mode	Finger + Pen (attaches magnetically)
Communication Mode	USB
Anti- light Interference	Anti-Glare tempered glass
Surface Hardness	7H
Touch Resolution	32767 × 32767

Speaker

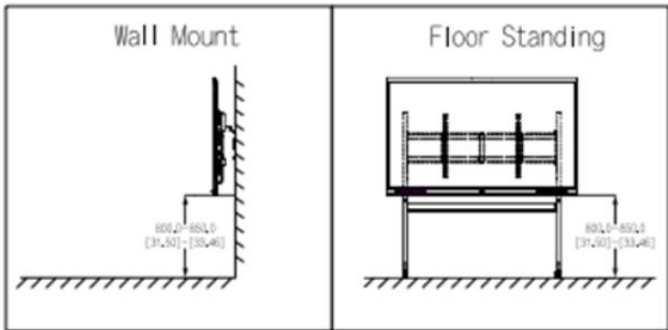|	
Built-in Speaker	2.1 sound channel, front-end: 2 × 20 W Back-end 1 ×20 W

General

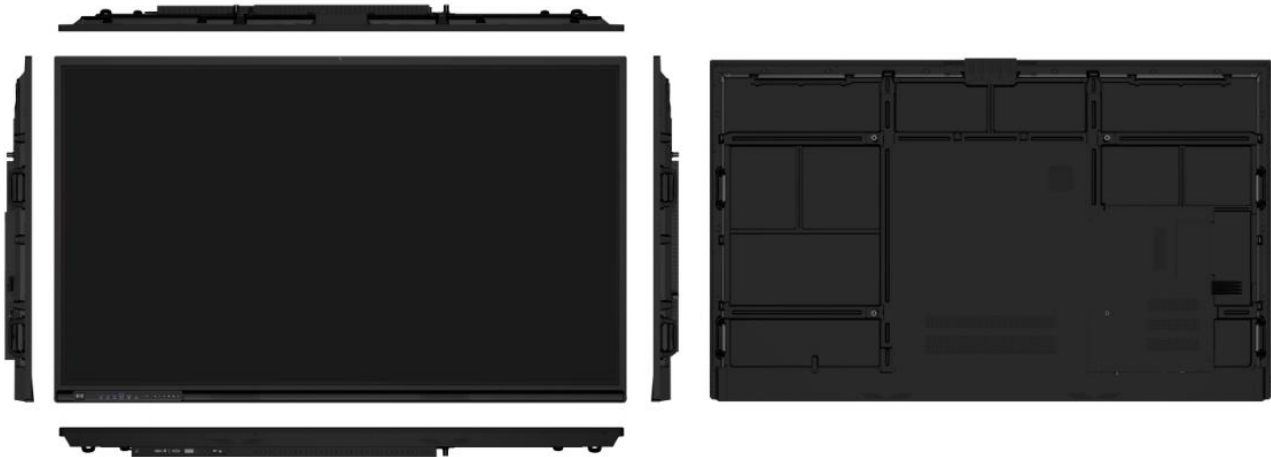|	
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	86-inch: 200 W (typ.); 435 W (max.) TBD Without OPS
Standby Power Consumption	≤0.45 W
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Storage Temperature	– 10 °C to +50 °C (+14 °F to +122 °F)
Operating Humidity	10%–90% (RH)
Storage Humidity	10%–90% (RH)
Product Material	Metal
Glass	4 mm Anti-Glare tempered glass
Casing Color (Frame/Rear)	Bottom/top: Silver; left/right: black; back: black
Product Dimensions	86-inch: 1,953.2 mm × 94.0 mm × 1,176mm (76.90" × 3.66" × 46.77") TBD
Packaging Dimensions	86-inch: 2,050.0 mm × 200.0 mm × 1,310.0 mm (80.71" × 7.87" × 51.57")TBD
Net Weight	86-inch: kg (lb) TBD
Gross Weight	86inch: kg (lb) TBD

Optical

Brightness(Peak）	600 nits (1200 nits)
Dynamic Contrast	≧1,000,000
Color Temperature(K)	10100
Brightness Uniformity	91%
NTSC(CIE1931)	104%
National Standard	43.6%
delta E （∆E）	≧2
Color purity ∆xy	0.0012

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Holes Distance	
	65-inch: 500 mm × 400 mm (19.69" × 15.75")
	75-inch: 600 mm × 400 mm (23.62" × 15.75")
	86-inch: 800 mm × 400 mm (31.50" × 15.75")
Installation	Wall mount; mobile bracket
Packing List	Smart interactive Panel × 1
	Power cord × 1
	Passive stylus pen × 2
	Wall mount bracket × 1
	Remote control × 1
Bluetooth	Bluetooth 5.2
Wi-Fi	WIFI 6, 2.4 GHz Integrated WiFi 802.11 b/g/n/ac, supports PEAP/EAP-GTC authentication protocol within 802.lX

Installation

Wall Mount — Floor Standing

Rear/Bottom Side Port Diagram

【81_A1】(Mini)LINE OUT,RJ45#1/RJ45#2,PC AUDIO IN,VGA,USB#1(USB2.0), COAX,RS232,TOUCH OUT#1(USB3.0),USB Type-C#1,TOUCH OUT#2(USB3.0), HDMI#1,HDMI#2,HDMI OUT,DP,HDMI#3,TOUCH OUT#3(USB3.0),USB Type-C#2, USB#2(USB3.0),USB#3(USB3.0)

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Front Port Diagram

USB3.0   USB3.0   USB3.0   Touch3.0   HDMI   Type-C

Six perspective diagram