

MAXHUB Smart Blackboard

Model: B8650

Combining unparalleled visual appeal with integrated writing synchronization capabilities, the B8650 Smart Blackboard redefines modern teaching and learning. Powered by Windows, it delivers a familiar, secure, and highly compatible experience, enabling educators to run teaching tools with greater ease and stability. Its wide-angle camera supports remote and hybrid learning by capturing more of the classroom, while eye-care display technology and skywave sound system provide a healthier and more comfortable experience for both in-room and remote participants. Perfect for multimedia presentations, interactive lesson plans, or collaborative learning activities, the B8650 Smart Blackboard is the all-in-one solution that raises the bar in every aspect.



Prominent Display

4K wide viewing angel display
High color accuracy, $\Delta E \leq 1$



SkyWave Sound System

2.2 channel speaker
2x12W+2x30W maximum



Writing Synchronization

Content written on the whiteboard
is recorded in real time



Classroom Care

Hardware-grade eye care
TÜV Low Blue Light and Flicker Free
certification



Precious Touch

MAXHUB Think&Ink Technology
50 touch points, $\pm 1.5\text{mm}$
touch accuracy



Advanced Security System

Powered by Windows 11 Pro



Convenient Connectivity

All-in-one Type-C interface,
integrate video, audio, touch
and internet access features



Comprehensive Software Suite

MAXHUB EDU OS for Windows,
extensive education-tailored
applications

Display		Touch System	
Model	B8650	Touch Technology	Infrared recognition
Diagonal Size (inch)	86	Touch Point	50 Points touch
Display Area	1895.04(H) × 1065.96(V)mm	Object Recognition Range	3mm
Aspect Ratio	16:9	Accuracy	±1.5mm
Resolution	3840(H) × 2160(V)	Response Time	≤5ms
Viewing Angle	178° (H/V)	Writing Height	≤2mm
Screen Level	A-Level	MAXHUB Think&Ink	Sideboard Writing Synchronization Direct Annotation Multi-level Object Recognition Single Pen Dual Color
Panel Brightness	400 nits (typ.) 450 nits (max.)		
Side-Viewing Brightness	≥ 1/3 of center brightness (±60°)		System (Touch Return)
Contrast Ratio	1,200:1 (typ.) 50,000:1 (dynamic)	Operating System (MT82S PC Module)	
Color Depth	1.07B (10bit)		
Color Gamut (typ.)	98% sRGB	System	Windows 11 Pro
Color Accuracy	ΔE≤1	CPU	13th Generation Intel® Core™ i5
Glass	Zero parallax 3mm thickness 9H tempered	GPU	Intel UHD Graphics
		RAM	8GB
		ROM	256GB
Surface Technology	Non-glare, 25% haze Etched-AG Technology Support writing with ordinary chalk, dustless chalk and liquid pens		
Sensor	Ambient light sensor		
Eyes Care	TÜV Flicker Free TÜV Low Blue Light		
Refresh Rate	60Hz		
Response Time	8ms		
Backlight Unit	DLED		
Backlight Life (typ.)	≥60,000 Hours		
Connectivity			
I/O Ports (Interactive Display)	HDMI IN × 2	Up to 4K@60Hz	
	USB 2.0 × 1	For system upgrades	
	USB 3.0 × 2	For external peripherals	
	Touch × 1	2.0×1	
	USB Type-C × 1	Video and audio transmission, touch, LAN network sharing.	
	AUDIO OUT × 1	3.5mm jack	
	RS232 × 1	Baud rate 9600	
I/O Ports (PC Module)	HDMI OUT × 1	Up to 4K@60Hz	
	USB 2.0 × 3	For external peripherals	
	USB 3.0 × 3	For external peripherals	
	MIC IN × 1	3.5 mm Jack, input for microphone	
	RJ45 × 1	10M/100M/1000Mbps	
PC Module Slot	Module slot (40 Pins) × 1		
Wi-Fi	Wi-Fi 6 supported 802.11ac/b/g/n/a/ax, 2.4GHz/5GHz		
Bluetooth	5.2		

Camera		Environment	
Quantity	× 1	Operating Temperature	0℃~40℃
Resolution	50MP	Storage Temperature	-20℃~60℃
FOV	150° DFOV, 120° HFOV	Operating Humidity	10%~90%RH
Feature	Person counting	Storage Humidity	10%~90%RH
	Random election	Altitude	Below 5000 meters
Audio		Physical Specification	
Audio System	SkyWave Sound System	Dimension (L×H×D)	Main screen: 1991.5×1214.7×97.3mm Sideboard: 1115.5×1201.9×113.4mm Assembled: 4203.7×1214.7×118.3mm
Sound Channel	2.2		
Speaker Power	2×8W+2×18W (output) 2×12W+2×30W (maximum)	Shipping Dimension (L x H x D)	Main screen: 2156×1350×205mm Sideboard: 1240×1314×185mm
Sound Pressure Level	88 dB (1m)	Thickness of Machine and Wall Mount	119mm
Microphone		Gross Weight	Main screen: 66.2kg Sideboard: 22.4kg
Quantity	8-mic array	Net Weight	Main screen: 52.2kg Sideboard: 16.7kg
Pick-up Angle	180°	VESA	No
Pick-up Range	0~12m	Power Power Supply AC 100~240V 50/60Hz Power Consumption (standby) ≤0.5W Power Consumption (typ.) 150W Power Saving Energy Star Certification	
Feature	AI spatial sound		
	AEC (Auto echo cancellation)		
	ANC (AI noise cancellation)		
	AGC (Auto gain control)		
Accessories			
Power Cord	3m×1		
HDMI Cable	3m×1		
Stylus	SW30×2		
Wall Mount Strip	×2		
Wall Mount Panel	WIB9060K×1		
Wall Connectors	×6		
Eraser	×1		

Where Inspiration Moves Ahead