

BenQ Board Essential

The essence of education

Have all the essential tools you need for effective interactive lessons.



BenQ
Education

BenQ Board Essential
RE6504 / RE7504 / RE8604



EDLA



ClassroomCare®



Type-C charging

Harness the power of Google

Streamlined teaching with Google

The EDLA-certified BenQ Board combines Google services with ever-reliable BenQ hardware and software.



Expansive app library

Install education apps directly from Google Play for more interactive lessons.



Go-to Google services

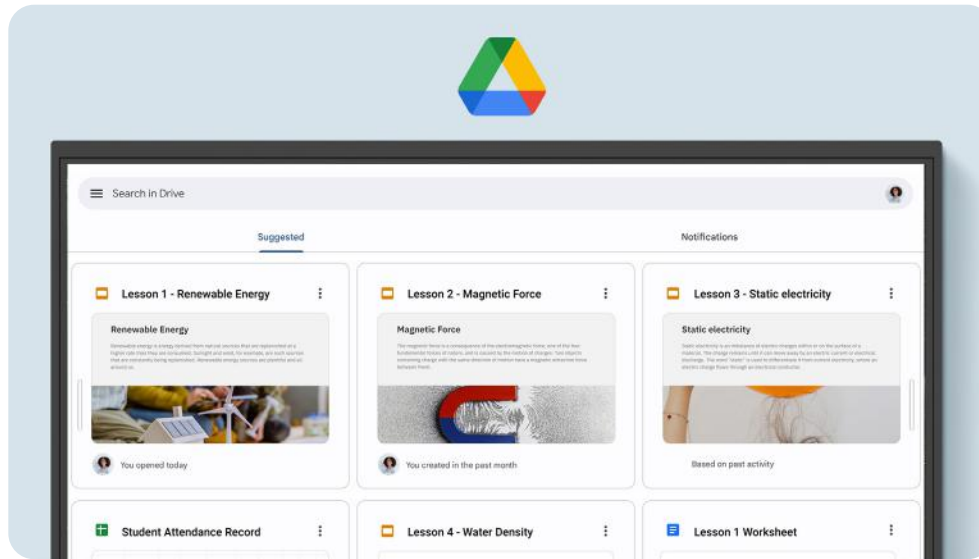
Access essential Google Core Services such as Google Drive and Meet.



Google Docs editors

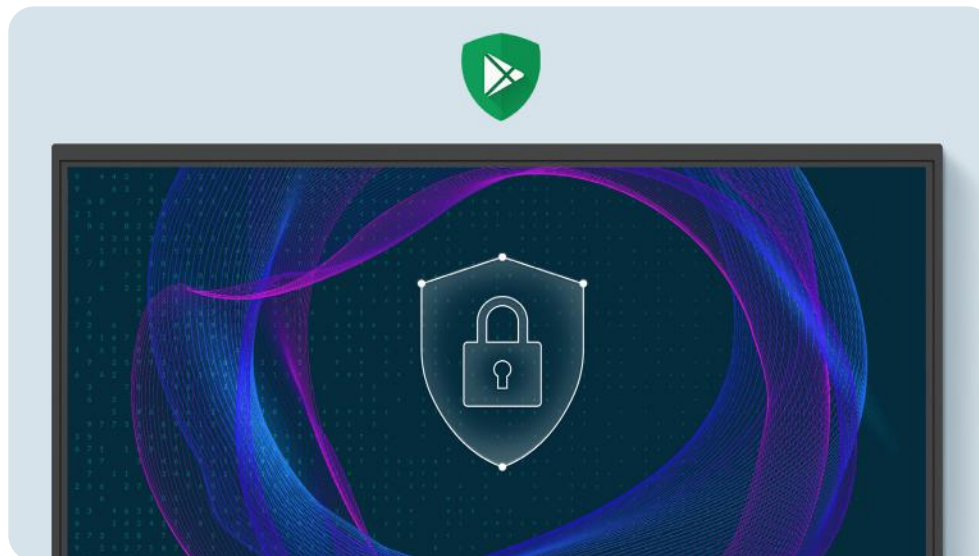
Quickly open lesson files with any Google app on a large touchscreen display.

Harness the power of Google



Direct file access

Google Drive integration lets you access and save files to your cloud storage directly from the board.



Built-in data security

Keep your boards safe against security and privacy threats with Google Play Protect and Safe Browsing.

A whiteboard like no other

Do more than just write or draw. EZWrite's expandable canvas offers limitless possibilities with its rich collection of lesson tools and helpful AI features.

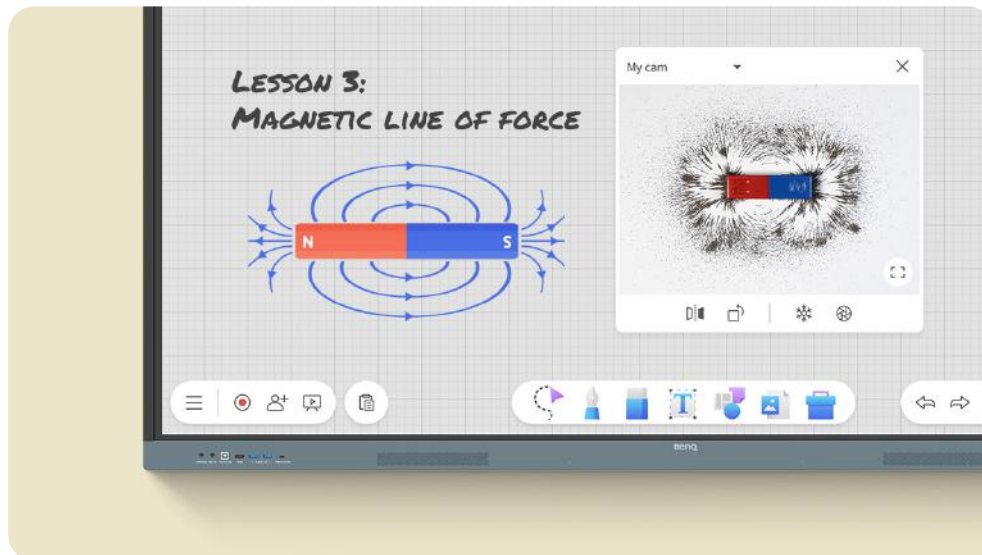


A whiteboard like no other



Use your own files

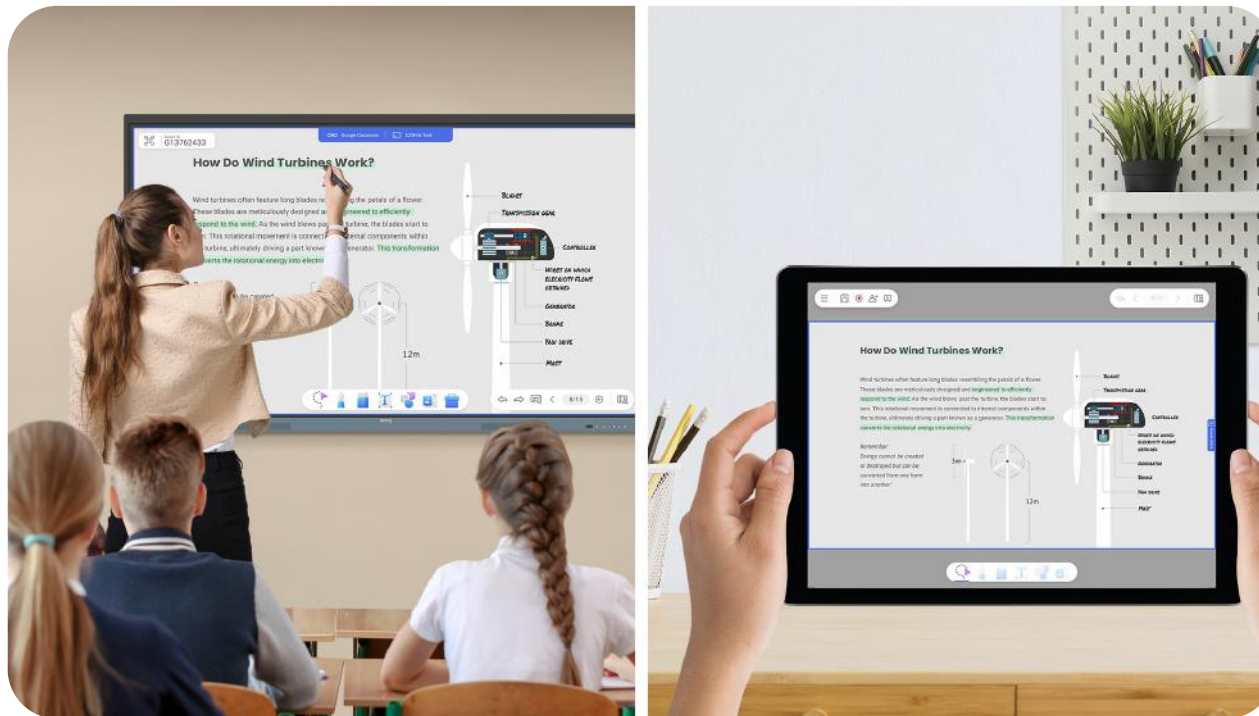
Import a variety of lesson files, interact with its contents on the whiteboard, and then export the session as an editable file for a future class.



A tool for every need

Pull up any of EZWrite's built-in tools that are designed to engage students, and meet a wide variety of lesson activities and subjects.

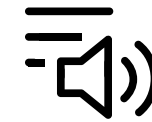
A whiteboard like no other



Take lessons to the cloud

Extend the whiteboard so that others can participate and interact with the board whether they're joining from their seats or from home.

Built-in AI tools for more inclusive lessons



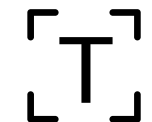
Text-to-speech

Have displayed text read aloud



Multilingual translation

Translate text with a tap



OCR

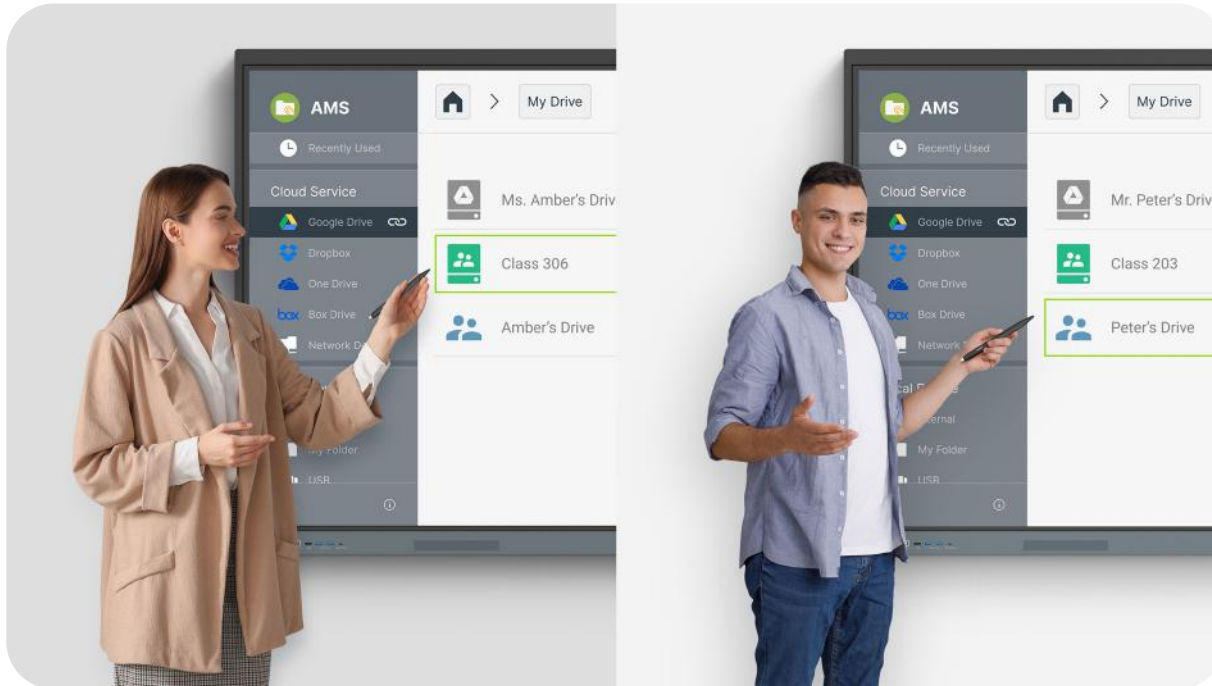
Edit text from imported images

Essential tools for every teacher

The RE04 uncomplicates your teaching experience by giving you everything you need on one board.



Essential tools for every teacher



Your own space and data

All accounts are secure and separate—allowing you to have your own teaching space while preventing others from accessing your data.

Log in with a tap

You can save time logging in and accessing your cloud-based lesson files through one-tap NFC login. Inquire about our upgraded RE04 models to get the built-in NFC sensor.



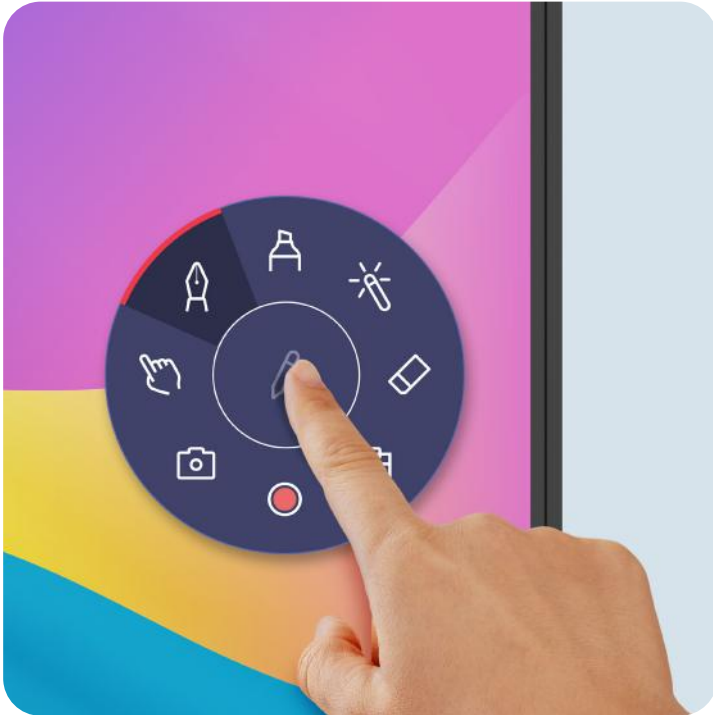
Essential tools for every teacher

Organize with ease

Save time by having all your most-used apps, files, and widgets arranged and accessible directly from your home screen.

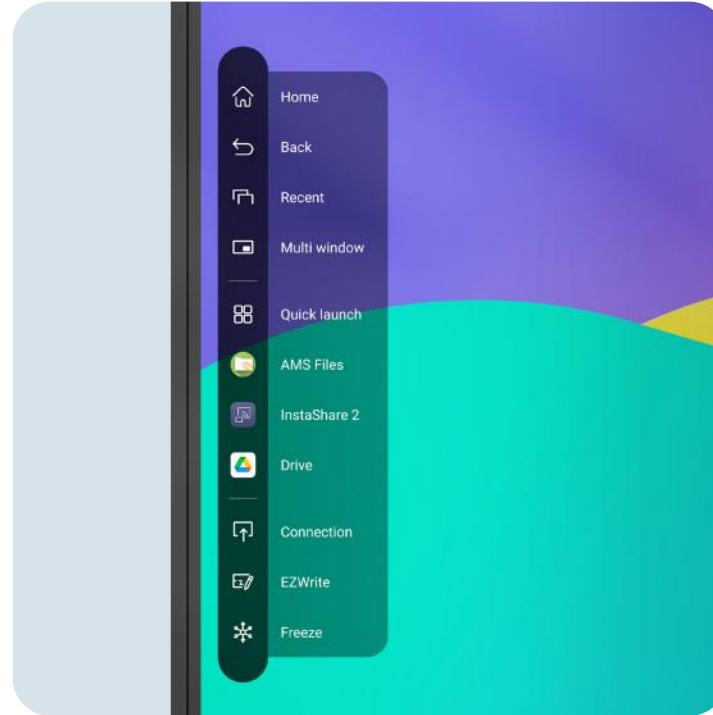


Essential tools for every teacher



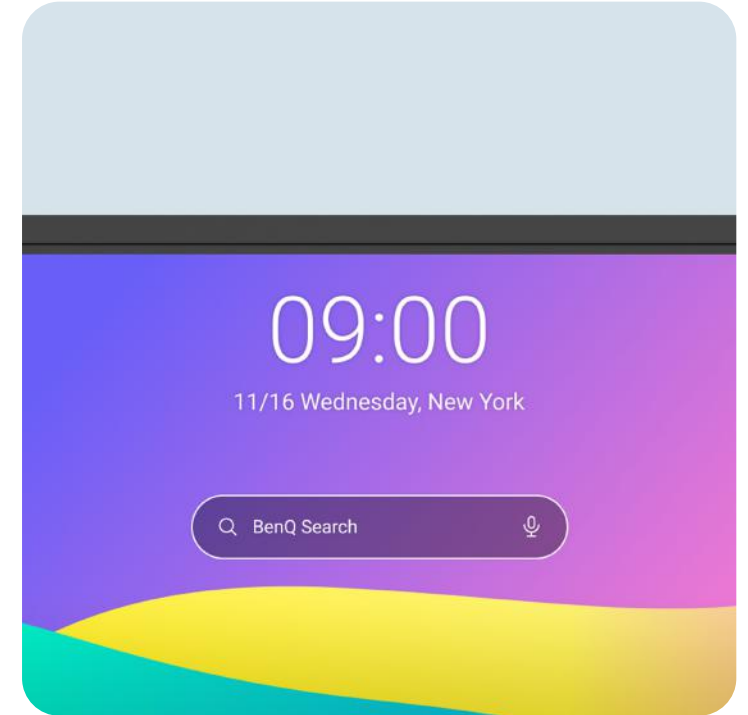
Snap. Record. Write.

The Floating Tool lets you take snapshots, record your screen, and annotate over any app, file, webpage, or video displayed on the board.



Sidebar access

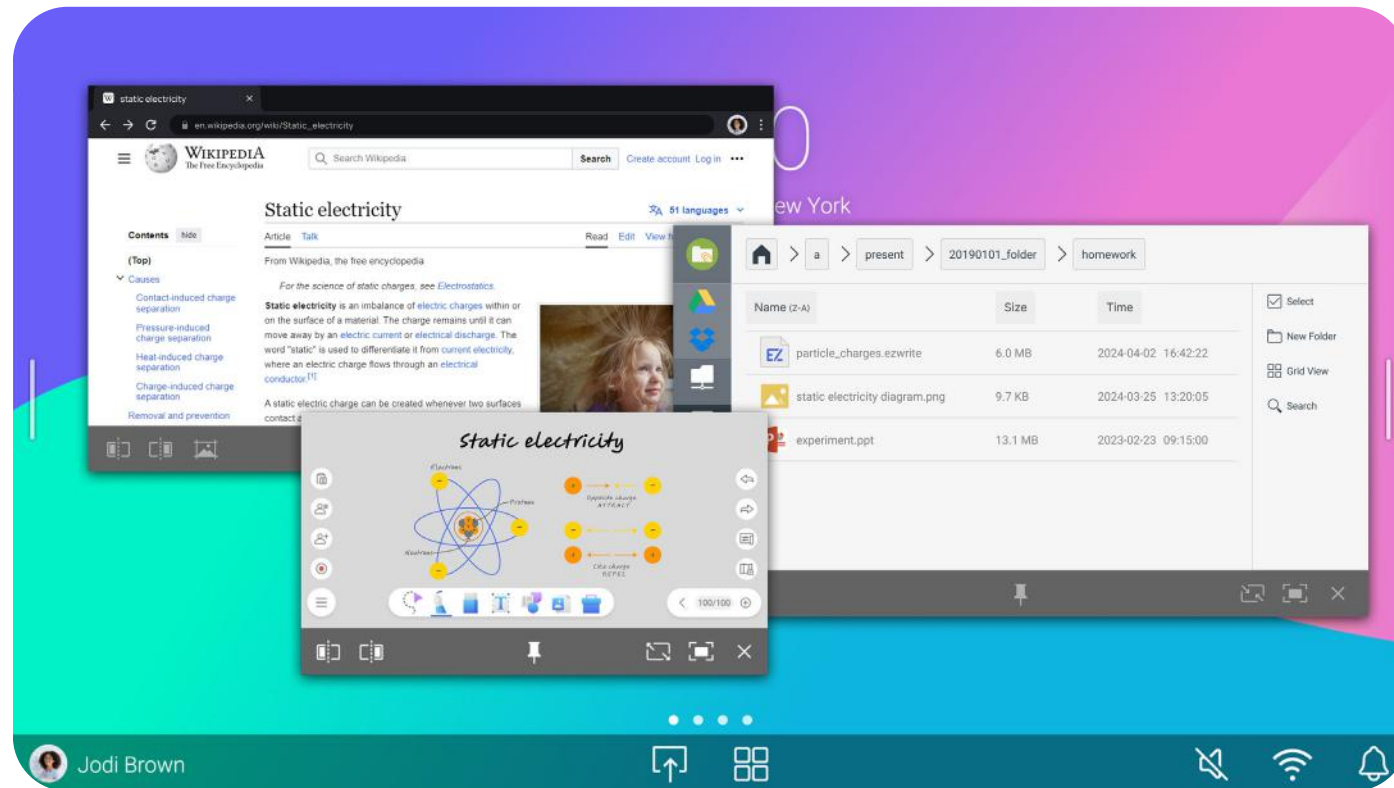
Expand the sidebar for convenient access to recent apps, files, and input sources, as well as a shortcut to the home screen.*Available in Q2



Expanded search

Use BenQ Search to quickly query related content from the internet or sort through your lessons files stored on the board or your cloud.

Essential tools for every teacher



Enhance your lesson flow

Increase teaching efficiency with the multi-window mode, allowing you to whiteboard while using other apps on the side. *Available in Q3

Essential tools for every teacher



5-in-1 connectivity

The multipurpose USB-C port allows for quick data transmission, clear audio/video playback, touchback controls, and 65-watt charging.



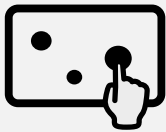
Full vibrant audio

Experience enhanced audio with the board's built-in 20-watt speakers that offer crisp, room-filling sound.

Essential tools for every teacher

All hands on board

The BenQ Board Essential's large interactive screen is designed for whole-class participation, letting you boost engagement and liven up your lessons.



40 touch points

Get everyone actively participating in class with the RE04's 40 touch points.



Gap-free writing

No gaps and an 8ms response time ensure a natural writing experience every time.



Precise touch

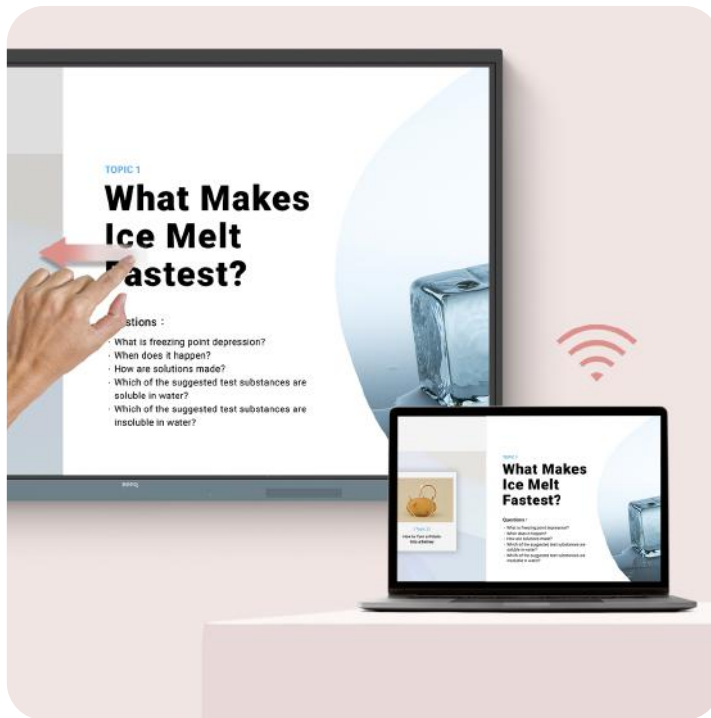
You're guaranteed smooth interactions with the board's Precision IR technology.

Everyone can share

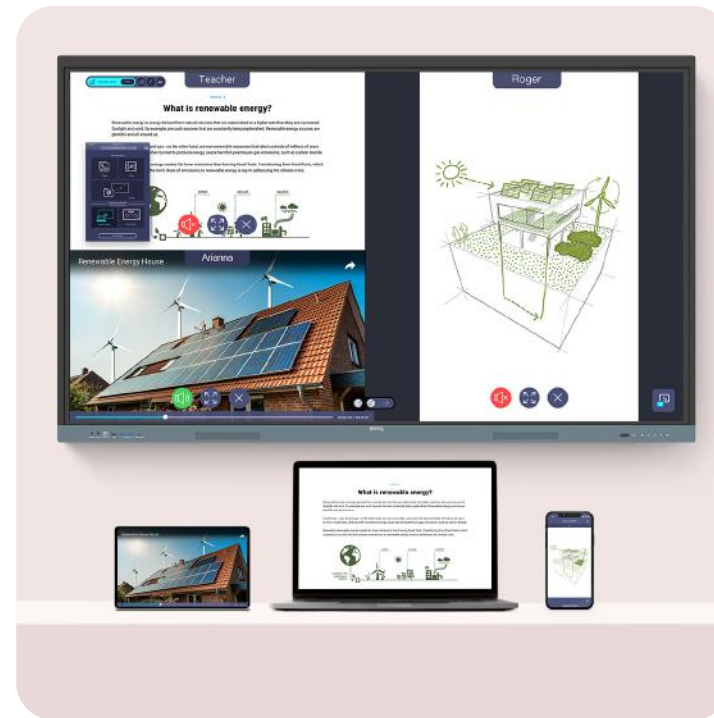
InstaShare 2 lets everyone share ideas freely. Wirelessly cast lesson content and interact with any device from anywhere in the room.



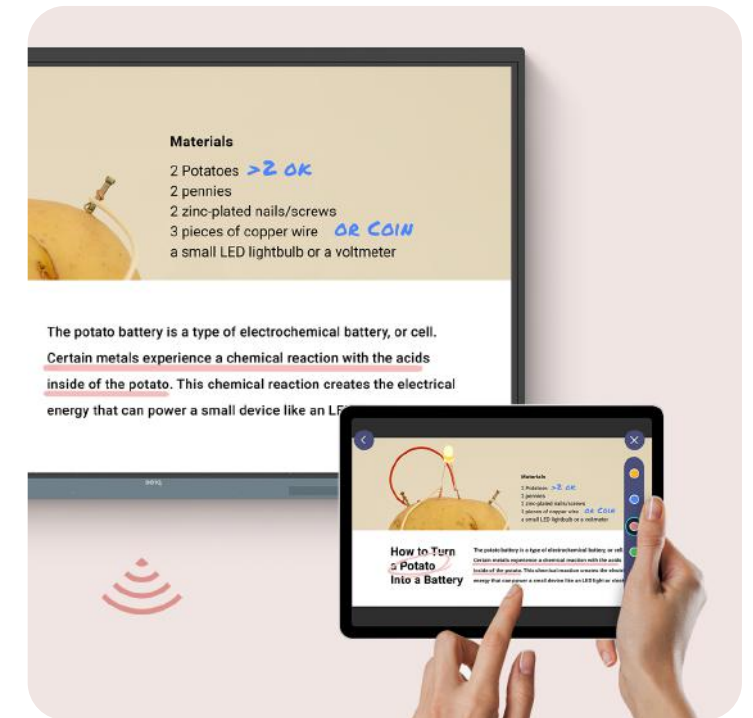
Everyone can share



Control your device from the board



Share multiple screens simultaneously

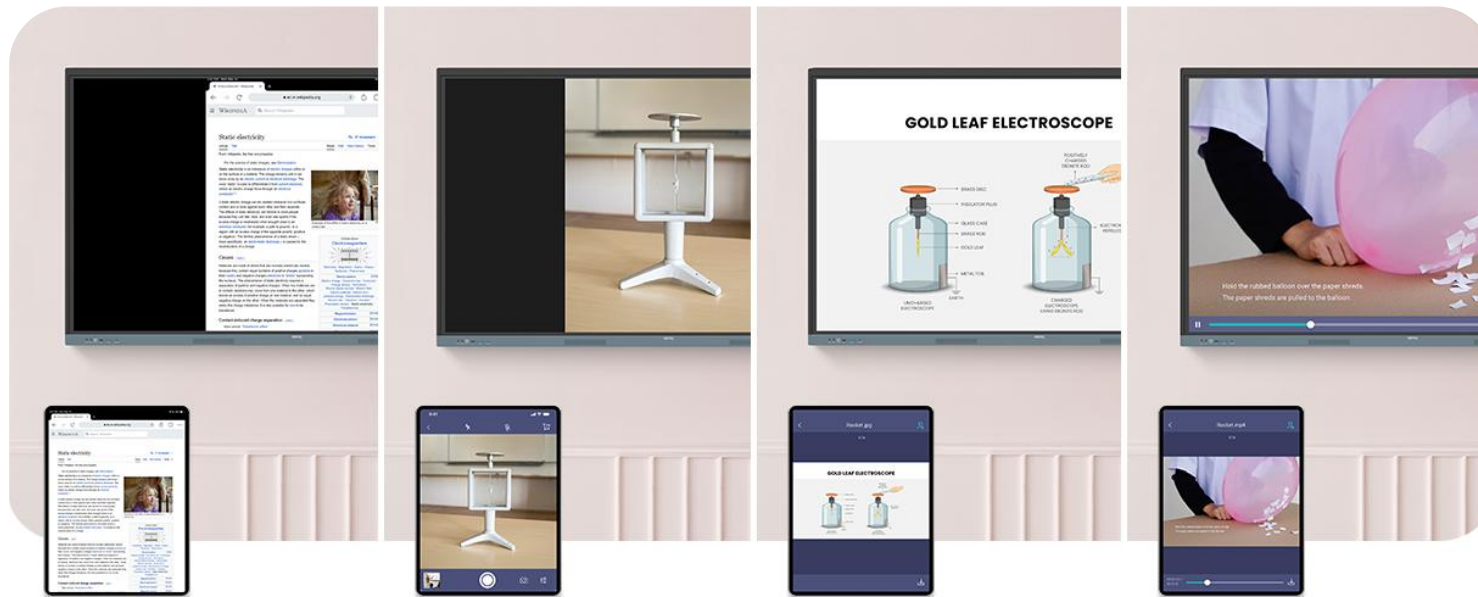


Cast the board to connected devices

Everyone can share

Beyond screen sharing

Do more than just cast your screen. Media sharing makes lessons more dynamic. Share photos, videos, or even a live camera feed from your device directly to the board.

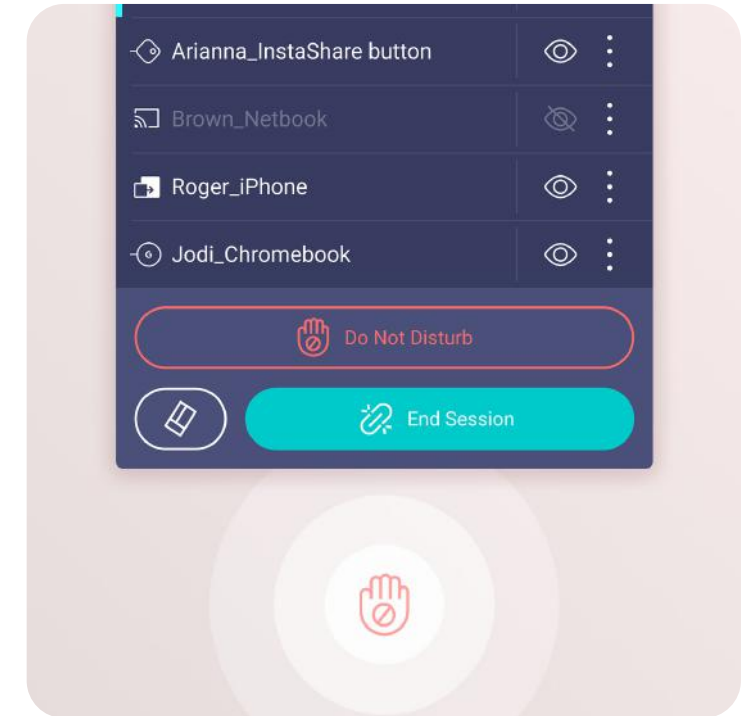


Screen

Camera

Photo

Video



Moderate sessions with ease

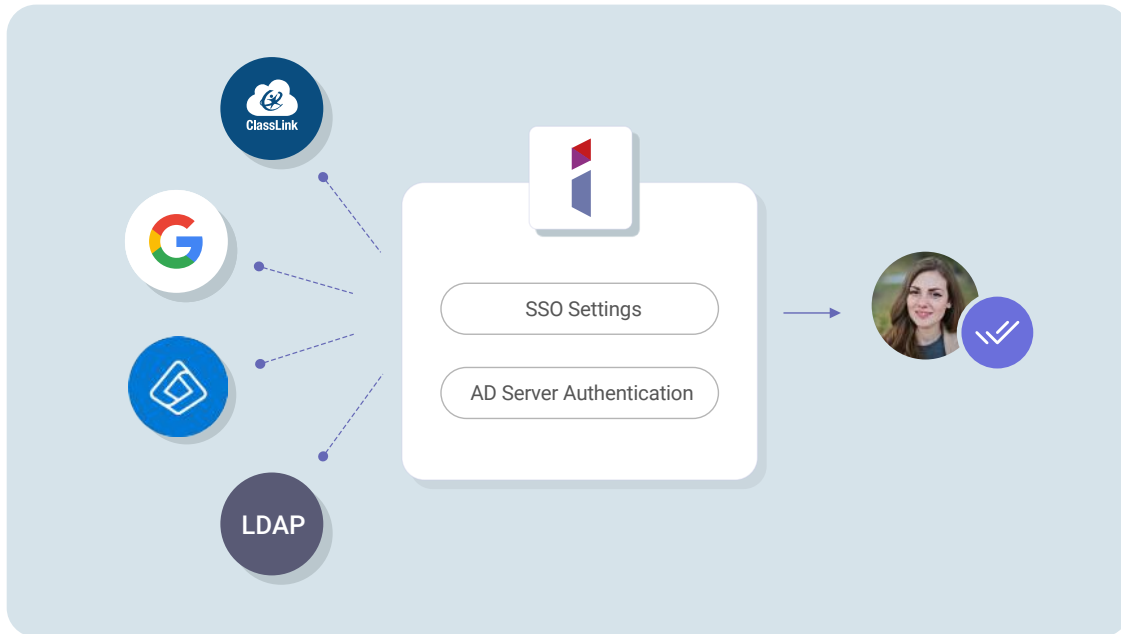
Host controls allow you to effectively manage your sessions. Accept or reject sharing requests and show or hide screens, while the AI Guardian automatically blocks nude content.

Management made easy

BenQ takes out the complexity from device and user list management, significantly reducing IT workload so they can focus on other tasks.

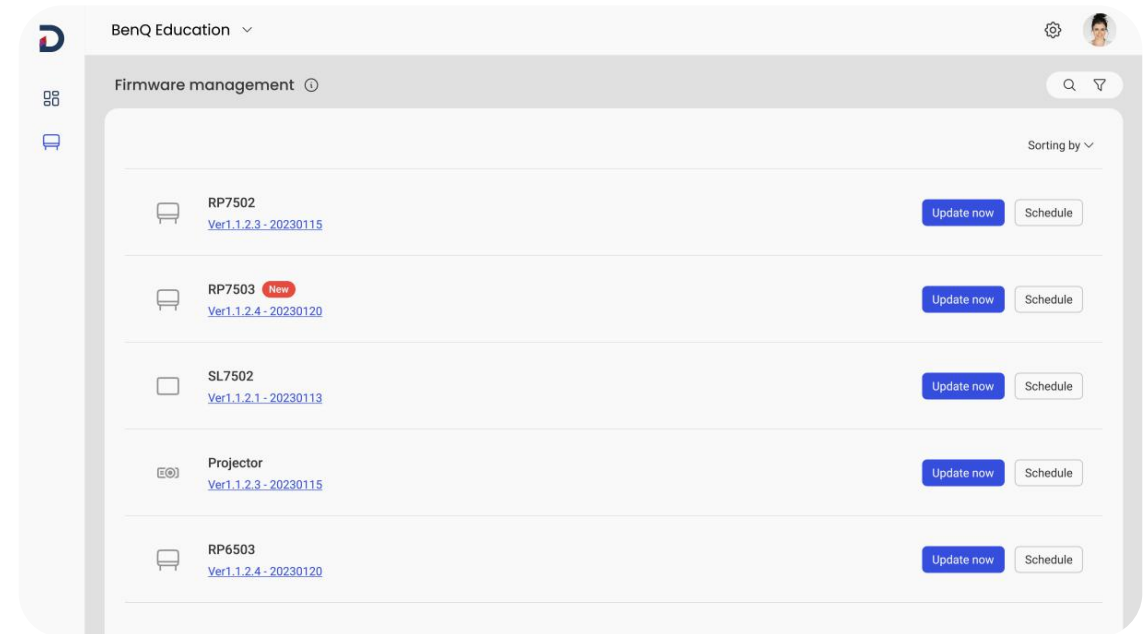


Management made easy



Effortless user list syncing

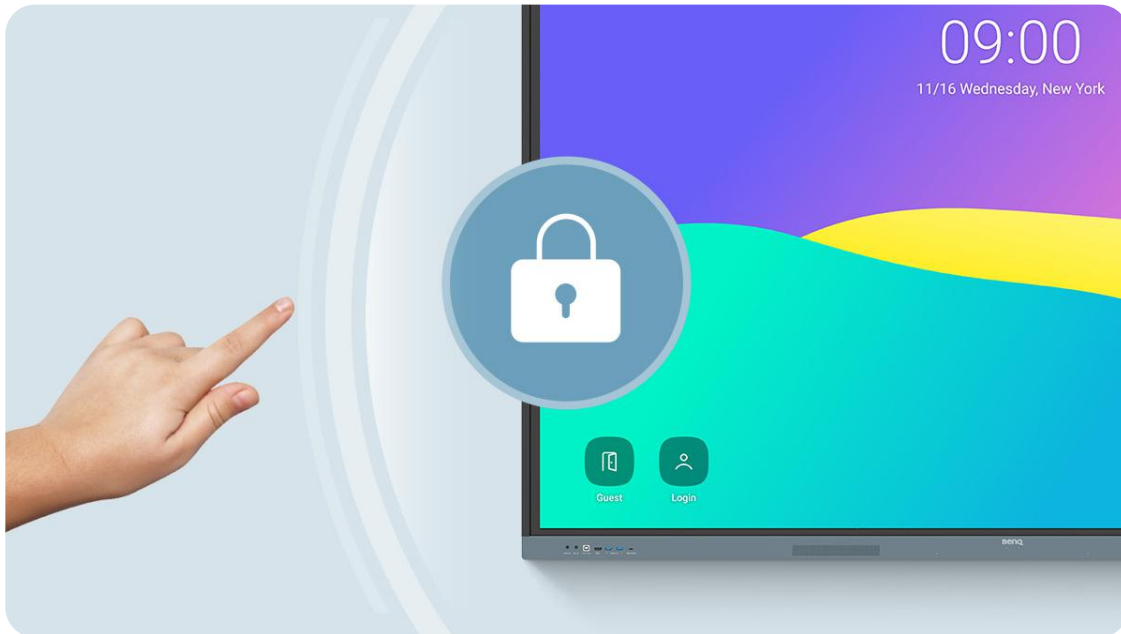
Simplify identity management by syncing any of your existing Google Workspace, Entra ID (formerly Azure Active Directory), ClassLink, LDAP, or SAML-based user lists.



Centralized management

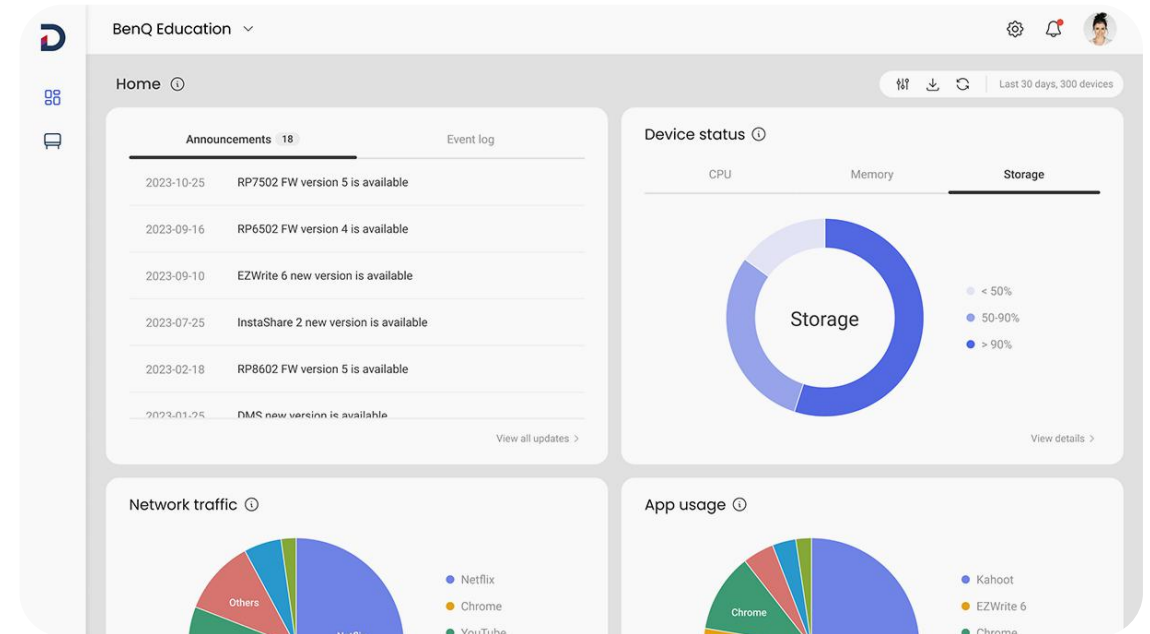
Remotely manage all your BenQ devices on an all-in-one console that lets you install, update, and delete apps, push firmware updates, and automate tasks such as startup and shutdown.

Management made easy



Enhanced data security

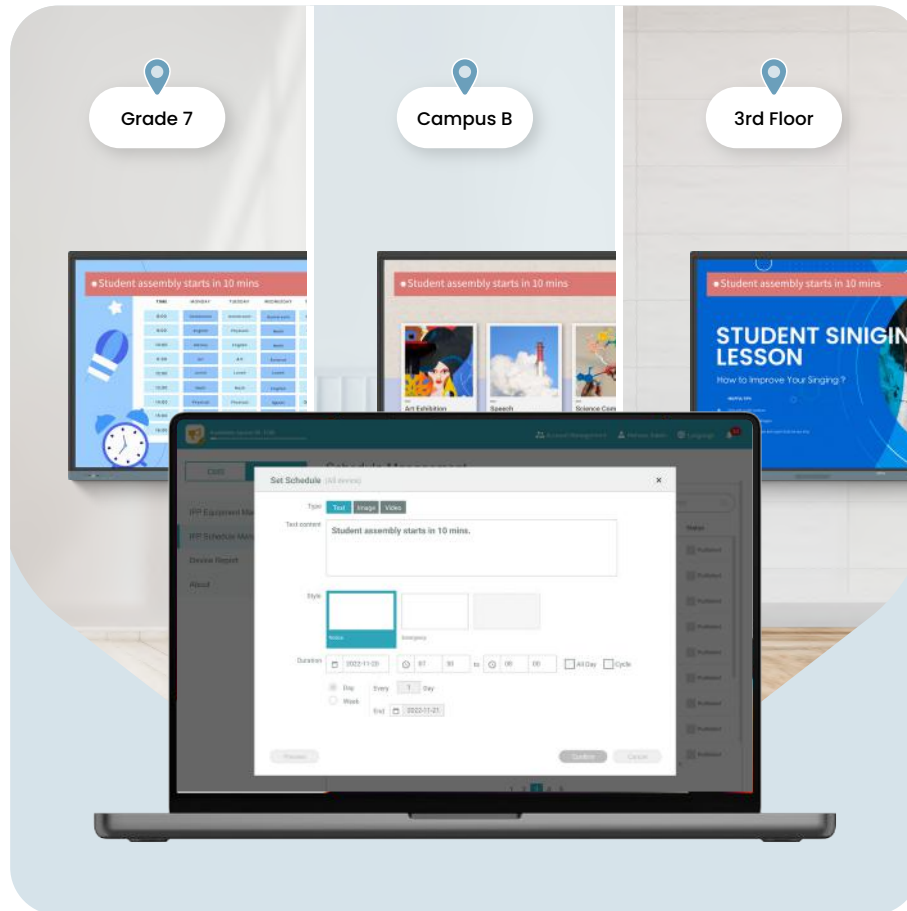
Safeguard your data through the RE04's secure login options and access controls, regular system updates, and built-in Google Play Protect and Safe Browsing measures.



Data-driven efficiency

Generate specific and comprehensive device analytics so you can monitor how your boards are being utilized and adjust usage guidelines to maximize efficiency.

Management made easy



School-wide announcements

With X-Sign Broadcast, you can send out timely announcements to all your BenQ displays. Inform your school about upcoming events, important reminders, and emergencies.



Bridging health and learning

ClassroomCare features are essential in helping schools create healthier learning spaces for students and teachers.



Bridging health and learning



TÜV-certified



Flicker-free



Low blue light

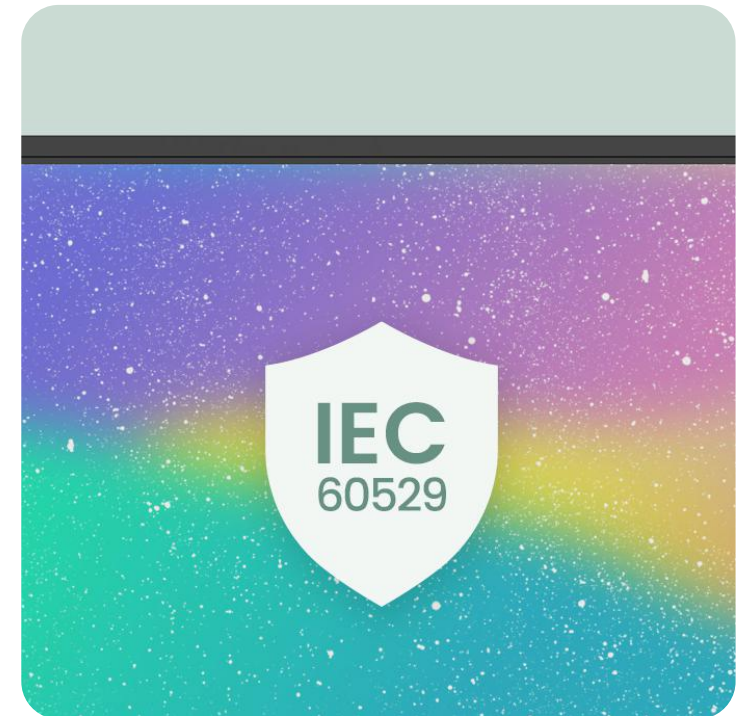


Anti-glare



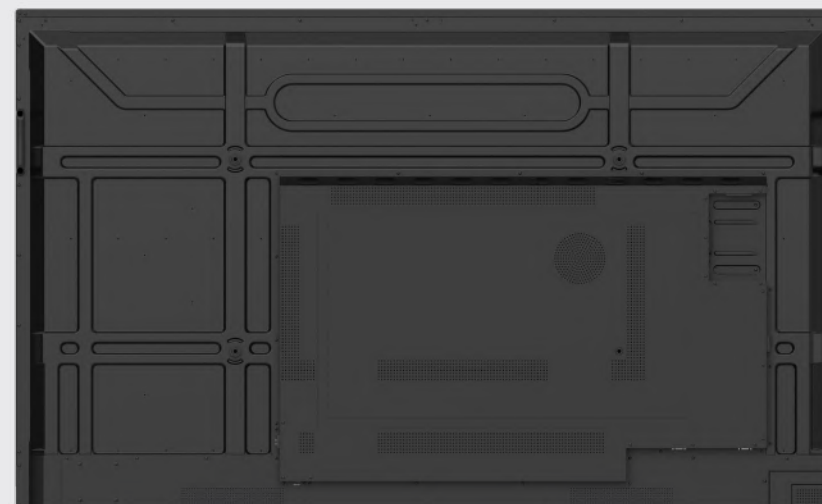
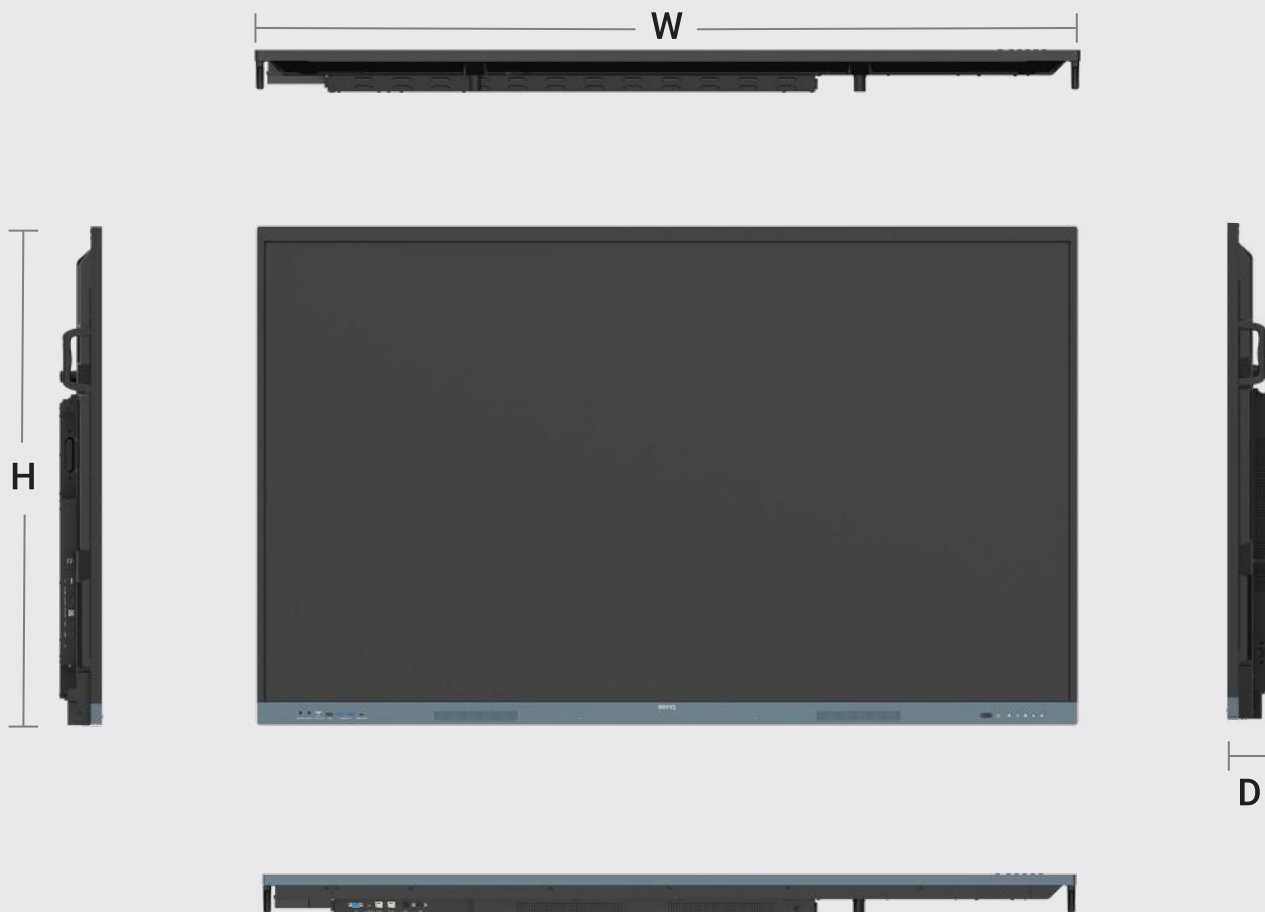
Antimicrobial screen

The RE04 helps reduce the transmission of germs in the classroom. Its touchscreen has a TÜV-certified antimicrobial coating that is 99.9% effective against common germs.



IP5X dust protection

The IEC 60529-compliant RE04 screen prevents dust accumulation even in the most dust-prone environments.

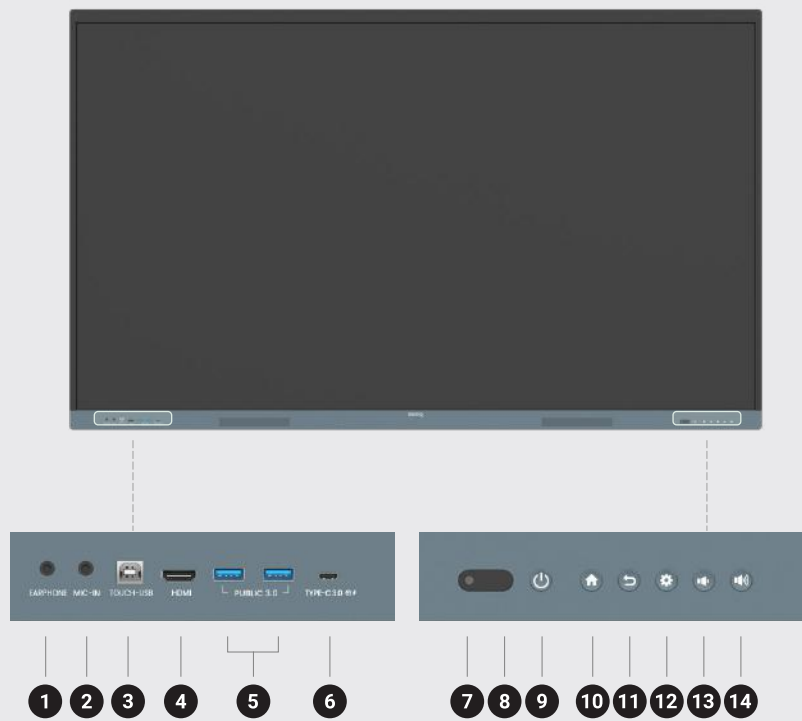


Dimensions (W×H×D)

RE6504 | 1482.1 × 907 × 87.7 mm (58.4 × 35.7 × 3.5 in)

RE7504 | 1716.5 × 1041.6 × 87.7mm (67.6 × 41.0 × 3.5 in)

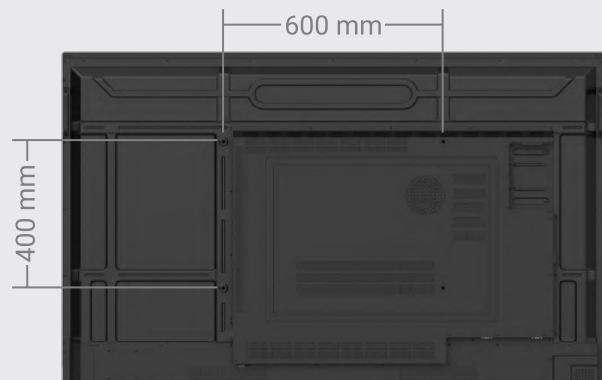
RE8604 | 1961.8 × 1179.7 × 87.7mm (77.2 × 46.4 × 3.5 in)



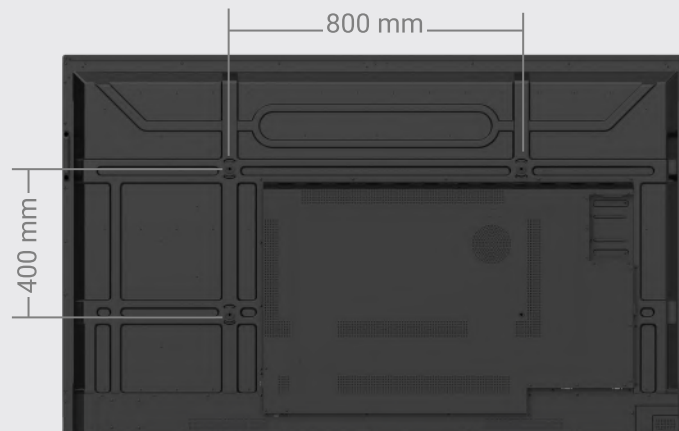
- | | | |
|-------------------|-------------------------|-----------------|
| 1. Earphone jack | 6. USB 3.0 Type-C | 11. Back |
| 2. Microphone in | 7. Ambient light sensor | 12. Menu |
| 3. Touch USB | 8. IR sensor | 13. Volume down |
| 4. HDMI in | 9. Power | 14. Volume up |
| 5. USB 3.0 Type-A | 10. Home | |



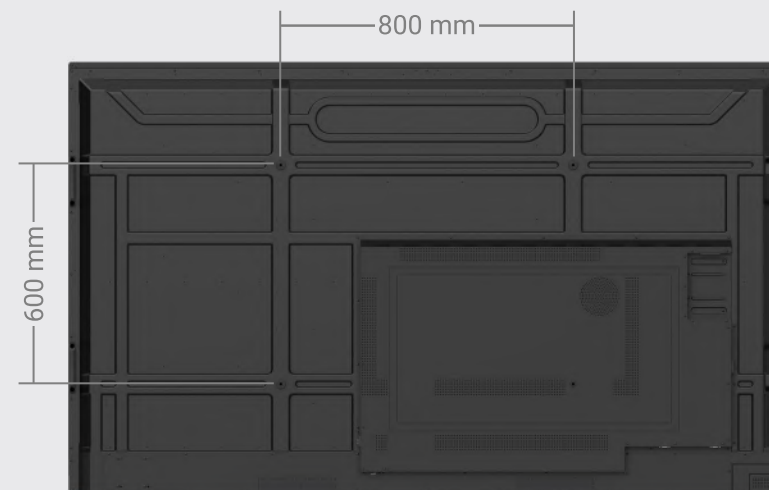
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|--------------------|--------------------|--------------------|
| 15. RS-232 | 20. DisplayPort in | 25. USB 2.0 Type A |
| 16. S/PDIF | 21. HDMI in | 26. SD card slot |
| 17. Ethernet | 22. Touch USB | 27. OPS slot |
| 18. Audio in (VGA) | 23. HDMI out | 28. USB 2.0 Type-A |
| 19. VGA | 24. USB 2.0 Type-C | |



RE6504



RE7504



RE8604

Size	VESA specification	Screw type	Quantity
65"	600 × 400 mm	M8 × 25L	4
75"	800 × 400 mm	M8 × 25L	4
86"	800 × 600 mm	M8 × 25L	4

Models	RE6504	RE7504	RE8604
Panel			
Screen size	65"	75"	86"
Panel type	IPS	IPS	IPS
Resolution	UHD 3840 × 2160 pixels	UHD 3840 × 2160 pixels	UHD 3840 × 2160 pixels
Active area	1428.5 × 803.5 mm	1649.7 × 927.9 mm	1895.0 × 1096.0 mm
Response time	8 ms	8 ms	8 ms
Aspect ratio	16:9	16:9	16:9
Orientation	Landscape	Landscape	Landscape
Contrast ratio (typical)	1200:1	1200:1	1200:1
Dynamic contrast ratio	30,000:1	30,000:1	30,000:1
Color depth	10-bit	10-bit	10-bit
Color gamut	72% NTSC	72% NTSC	68% NTSC
Panel brightness without glass (typical)	450 nits	450 nits	450 nits
Panel brightness with glass (typical)	400 nits	400 nits	400 nits
Backlight life (typical)	50,000 hrs	50,000 hrs	50,000 hrs
Glass			
Hardness	9H tempered	9H tempered	9H tempered
Anti-glare	Yes	Yes	Yes
Germ-resistant technology	Availability dependent on region	Availability dependent on region	Availability dependent on region
Touch screen			
Touch technology	Precision IR	Precision IR	Precision IR
Touch points	up to 40	up to 40	up to 40
Touch response time	< 5 ms	< 5 ms	< 5 ms
System			
CPU	Arm Cortex-A73 × 4 + A53 × 4	Arm Cortex-A73 × 4 + A53 × 4	Arm Cortex-A73 × 4 + A53 × 4
GPU	Arm Mali-G52 MP8	Arm Mali-G52 MP8	Arm Mali-G52 MP8
Memory Storage	8 GB 64/128GB (up to 1TB via micro SD card)	8 GB 64/128GB (up to 1TB via micro SD card)	8 GB 64/128GB (up to 1TB via micro SD card)
Operating system	Android 14 in 2025 Q3	Android 14 in 2025 Q3	Android 14 in 2025 Q3

Models	RE6504	RE7504	RE8604
Connectivity			
USB-C	1 × 3.0 (PD 65 W), 1 × 2.0	1 × 3.0 (PD 65 W), 1 × 2.0	1 × 3.0 (PD 65 W), 1 × 2.0
USB Type-B (for touch)	2 × 2.0	2 × 2.0	2 × 2.0
USB Type-A	2 × 2.0 + 2 × 3.0	2 × 2.0 + 2 × 3.0	2 × 2.0 + 2 × 3.0
HDMI (in out)	3 × HDMI 2.0 1 × HDMI 2.0	3 × HDMI 2.0 1 × HDMI 2.0	3 × HDMI 2.0 1 × HDMI 2.0
DisplayPort	1 × 1.2	1 × 1.2	1 × 1.2
VGA in	1	1	1
Audio in	1 × 3.5 mm microphone jack	1 × 3.5 mm microphone jack	1 × 3.5 mm microphone jack
	1 × 3.5 mm audio jack (VGA)	1 × 3.5 mm audio jack (VGA)	1 × 3.5 mm audio jack (VGA)
Audio out	1 × 3.5 mm earphone jack	1 × 3.5 mm earphone jack	1 × 3.5 mm earphone jack
S/PDIF out	1 (optical)	1 (optical)	1 (optical)
RS-232	1	1	1
OPS slot (for slot-in PC)	1	1	1
Ethernet	Gigabit Ethernet (10M/100M/1000M)	Gigabit Ethernet (10M/100M/1000M)	Gigabit Ethernet (10M/100M/1000M)
Wi-Fi	Availability dependent on region	Availability dependent on region	Availability dependent on region
Bluetooth®	Availability dependent on region	Availability dependent on region	Availability dependent on region
Built-in peripherals			
Ambient light sensor	Yes	Yes	Yes
IR sensor	Yes	Yes	Yes
Speaker	2 × 20 W (max)	2 × 20 W (max)	2 × 20 W (max)
Power			
ENERGY STAR®	Yes	Yes	Yes
Power	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
Standby power consumption	< 0.5 W	< 0.5 W	< 0.5 W
Typical power consumption	66.7 W	73.9 W	106.8 W

Models	RE6504	RE7504	RE8604
Physical			
Dimensions (W x H x D)	1482.1 × 907 × 87.7 mm (58.4 × 35.7 × 3.5 in)	1716.5 × 1041.6 × 87.7mm (67.6 × 41.0 × 3.5 in)	1961.8 × 1179.7 × 87.7mm (77.2 × 46.4 × 3.5 in)
Shipping dimensions (W x H x D)	1640.0 × 1010.0 × 185.0 mm (64.6 × 39.8 × 7.3 in)	1860.0 × 1125.0 × 185.0 mm (73.2 × 44.3 × 7.3 in)	2095 × 185 × 1265 mm (82.5 × 7.3 × 49.8 in)
Weight (product l shipping)	36.4 kg 49.4 kg (80.2 lbs 108.9 lbs)	50.2 kg 64.9 kg (110.7 lbs 143.1 lbs)	63.4 kg 80.2 kg (139.8 lbs 176.8 lbs)
Mount (screws)	VESA 600 × 400 mm (4 × M8 × 25L)	VESA 800 × 400 mm (4 × M8 × 25L)	VESA 800 × 600 mm (4 × M8 × 25L)
Environment			
Operating temperature	0°C ~ 40°C 32°F ~ 104°F	0°C ~ 40°C 32°F ~ 104°F	0°C ~ 40°C 32°F ~ 104°F
Storage temperature	-10°C ~ 60°C 14°F ~ 140°F	-10°C ~ 60°C 14°F ~ 140°F	-10°C ~ 60°C 14°F ~ 140°F
Storage humidity	10% ~ 80% RH non-condensing	10% ~ 80% RH non-condensing	10% ~ 80% RH non-condensing
Operating humidity	20% ~ 80% RH non-condensing	20% ~ 80% RH non-condensing	20% ~ 80% RH non-condensing
Software			
Whiteboarding	EZWrite 6.0	EZWrite 6.0	EZWrite 6.0
Wireless screen sharing	InstaShare 2	InstaShare 2	InstaShare 2
Account management	AMS	AMS	AMS
Device management	DMS	DMS	DMS
Quick access tool	Floating Tool	Floating Tool	Floating Tool
Broadcast system	X-Sign Broadcast	X-Sign Broadcast	X-Sign Broadcast
Accessories			
Cables	1 × VGA (1.5 m 4.9 ft), 1 × HDMI (1.5 m 4.9 ft), 1 × USB-B for touch (3 m 9.8 ft)	1 × VGA (1.5 m 4.9 ft), 1 × HDMI (1.5 m 4.9 ft), 1 × USB-B for touch (3 m 9.8 ft)	1 × VGA (1.5 m 4.9 ft), 1 × HDMI (1.5 m 4.9 ft), 1 × USB-B for touch (3 m 9.8 ft)
Wall mount	1	1	1
Pen	2	2	2
Remote control	1	1	1



Dealer's Stamp

BenQ

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