

BenQ 86" Interactive Flat Panel Display(9H.F84TK.DE5)

BenQ Pro Series RP8603 - 86" Diagonal Class LED-backlit LCD display - education / business - with touchscreen (multi touch) / NFC reader/writer - 4K UHD (2160p) 3840 x 2160



Encourage active participation in class while protecting student and teacher health with BenQ's interactive display for education.

Key Selling Points

- Germ-resistant screen, pen, and remote
- Built-in air ionizer for clean air
- 2x 16 W speakers with subwoofer for immersive sound
- One-tap NFC login to instantly load lesson materials
- Interactive teaching tools for more hands-on lessons

Product Features

Powerful in every way

Equip your students with BenQ's great interactive display designed to help them learn proactively, think creatively, and interact safely.

Defend against the spread of germs

Reduce surface transmission with ClassroomCare germ-resistant screens. The touchscreen, buttons, and front ports are made with a proprietary TÜV-certified formula that is 99.9% effective against common germs.

All-around protection

Shared surfaces can become potential vectors of germs. The RP03 comes with germ-resistant pens and remote controls for extended protection.

A breath of fresh air

Poor indoor air quality negatively affects student health and performance. The exclusive built-in air quality sensors allow you to monitor CO2 and PM2.5, and formaldehyde levels in the classroom so you can regulate air flow accordingly.

Maximum eye protection

The RP03 series is the first and only interactive display to meet Eyesafe standards, offering high level of protection available for the eyes. By minimizing high-energy blue light emission, the RP03 reduces eye strain while maintaining vivid, true-to-life colors.

Discover new ways to teach

Teach with confidence knowing all the classroom tools you need to give great lessons are always a tap away.

Tap and teach

Save time by securely accessing your files with a simple tap. Using an NFC card, you can access your cloud storage and load personal settings on any BenQ Pro series display.

More efficient teaching

Double your teaching efficiency by running two apps side by side. Have the EZWrite 6 whiteboard on one side and the browser or lesson content on the other, all on one screen.

Microphone array

Let lessons be heard clearly using the 8 built-in microphones with echo cancellation and noise reduction.

Captivate your class

Encourage active participation at every lesson with a wide variety of teaching tools that make classes fun. Whether you're teaching in person or holding a hybrid class, keep your students engaged and boost their learning retention.

Plug and teach

Teach students joining from home or participate in remote events as a class on the RP03 with a dedicated port for cameras.

Tools for IT and admin staff

The Pro series makes display management simple so you can focus on what matters.

Device analytics

Get detailed analytics of all your BenQ devices to increase operational efficiency. With customizable reports, you can easily monitor daily usage and group displays by floor, grade, or building.

Streamline account management

Use your school's account credentials to log into BenQ interactive displays and access all BenQ services. Streamline account management by connecting to Azure Active Directory and enabling account synchronization.

Effective communication across school

Keep everyone informed and up to date on events,safety protocols,and emergencies. Deliver clear and effective messages to multiple BenQ displays with X-Sign Broadcast.

IP5X dust protection

The RP03 panel meets IP5X standards to ensure consistent operation,even in dust-prone environments.

Main Specifications

Product Description	BenQ Pro Series RP8603 86"LED-backlit LCD display - 4K - for education / business
Product Type	LED-backlit LCD flat panel display with touchscreen (multi touch) / NFC reader/writer
Diagonal Class	86"
Commercial Use	Yes - education / business
Resolution	3840 x 2160
Display Format	4K UHD (2160p)
Video Interface	HDMI
HDMI Ports Qty	3 ports
Connectivity	Wi-Fi,LAN,NFC
PC Interface	VGA (HD-15),DisplayPort
Technology	IPS
LCD Backlight Technology	LED backlight
Image Aspect Ratio	16: 9
TV Tuner	No tuner
Picture Enhancements	72% Colour Gamut NTSC
Speaker System	2 speakers,subwoofer
Storage Capacity	64 GB
USB	9 ports
Included Accessories	Remote control,remote control,2 styluses,pen tray,wall mount,power cable (3 m),X.Sign Broadcast,Floating Tool,EZWrite 6.0,InstaShare 2
Voltage	AC 100-240 V (50/60 Hz)
Power Consumption Operational	141.9 Watt
Power Consumption Stand by	0.5 Watt
Dimensions (WxDxH)	196.24 cm x 12.15 cm x 120.34 cm
Weight	70.2 kg

Extended Specification

General

Product Type	LED-backlit LCD flat panel display
Power Consumption (Max)	587.6 Watt
Power Consumption Operational	141.9 Watt
Diagonal Class	86"
Commercial Use	Yes - education / business
Combined With	Touchscreen (multi touch) / NFC reader/writer
TV Tuner	No tuner
TV Tuner Presence	No
Sensors	Temperature sensor,motion sensor,air quality sensor,humidity sensor,particle sensor
Video Interface	HDMI

HDMI Ports Qty	3 ports
PC Interface	VGA (HD-15),DisplayPort
Modes	Landscape mode
Picture Enhancements	72% Colour Gamut NTSC
Protection	Dustproof,germ-resistant
Width	196.24 cm
Depth	12.15 cm
Height	120.34 cm
Weight	70.2 kg

Display

LCD Display Technology	IPS
Resolution	3840 x 2160
Display Format	4K UHD (2160p)
Image Aspect Ratio	16:9
LCD Backlight Technology	LED backlight
Coating	Anti-glare,9H Hard
Image Contrast Ratio	1200:1
Dynamic Contrast Ratio	30000:1
Brightness	450 cd/m²
Touchpoints Qty	40
Response Time	8 ms
Backlight Life	50,000 hour(s)
Features	Infrared touch technology,18/7 operation time,10-bit support,OPS Slot,Account Management System (AMS),Device Management Solution (DMS),built-in air ioniser

Stands &Mounts

Flat Panel Mount Interface	800 x 600 mm
VESA Compatibility	Yes

Media Player

USB Port	Yes
USB Ports Qty	9
Configuration	4 x ARM Cortex-A73 + 4 x ARM Cortex-A53 - 8 GB - 64 GB - Mali G52 MP8
Operating System	Android OS 11

Remote Control

Type	Remote control
Features	Voice control

Audio System

Digital Audio Format	Dolby Digital Plus output
Speaker System	2 speakers,subwoofer
Features	Built-in 8 microphones,Immersive surround sound

Speakers	2 x main channel speaker - 16 Watt 1 x subwoofer - 16 Watt
----------	---

Network &Internet Multimedia

Connectivity	Wi-Fi,LAN,NFC
LAN Protocol	Gigabit Ethernet

Connections

Connector Type	3 x HDMI input HDMI output DisplayPort input VGA input Microphone input - front Audio line-in Audio line-out SPDIF output 5 x USB 3.2 Gen 1 2 x USB 2.0 3 x touch USB-C 3.0 USB-C with 65W Power Delivery
----------------	---

Miscellaneous

Included Accessories	Remote control,2 styluses,pen tray,wall mount,power cable (3 m),X.Sign Broadcast,Floating Tool,EZWrite 6.0,InstaShare 2
Cables Included	VGA cable - 3 m HDMI cable - 3 m USB touch cable - 3 m USB-C cable - 1.5 m
Compliant Standards	IEC 60529 IP5X,ISO 22196,TUV Rheinland Low Blue Light Certification,TUV Rheinland Flicker Free Certification,DisplayPort 1.2a,SIAA,Eyesafe Certification

Power

Power Device	Power supply
Input Voltage	AC 100-240 V (50/60 Hz)
Power Consumption Stand by	0.5 Watt

Dimensions &Weight (Shipping)

Width (Shipping)	216 cm
Depth (Shipping)	25 cm
Height (Shipping)	134 cm
Weight (Shipping)	87 kg

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	20 - 80% RH (non-condensing)