BenQ

RP8605

Pro Series

Next-Gen AI Performance:

RP8605 features a true 10 TOPS NPU which enables AI processing directly on the device to support BenQ AI tools and improve classroom experiences for both students and teachers.

Android 15 and Google EDLA Certification:

With Android 15 and a Google EDLA ecosystem, RP8605 offers reliable access to core Google services and supports ongoing security updates to stay compatible with educational apps in the long term and reduce IT maintenance.

Advanced Data Security:

RP8605 includes device access controls, single sign-on, multi-factor authentication, and Google Play Protect, while complying with GDPR, CCPA, and PSTI standards to keep data secure.

ClassroomCare®:

RP8605 is verified by Eyesafe® Display 3.0 with an RPF® of 60 and a CPF of 50, helping protect eye health and support circadian-friendly viewing. Other ClassroomCare® technologies are germ-resistant surfaces, air quality sensors, and an air ioniser, all helping to support healthier, more comfortable classrooms.

→ Specifications subject to change without notice.

Panel	Screen size		86"
	Resolution		UHD 3840 × 2160
	Brightness		450 nits
	Contrast ratio (typ.)		1200 : 1
	Dynamic Contrast ratio		50,000 : 1
	Viewing angle (H/V)		178° / 178°
	Response time (G-t-G)		8 ms
	Backlight life		50,000 hrs
	Panel surface		AG, Haze 25%
	Operating hours		18 hours / 7 days
	Orientation		Landscape
System	Memory | Storage		16 GB l 256 GB
	OS		Android 15 (EDLA)
	CPU		Arm Cortex-A78 × 2 + A55 × 6
	GPU		Arm Mali-G57 MC2
Power	Power supply		AC 100-240 V 50 / 60 Hz
	Power consumption	Typical	126.4 W
		Standby	<0.5 W
	AC power switch		Yes
	ENERGY STAR® 8.0		Yes
	Wake up		LAN / HDMI / VGA / DP
Touch	Technology		Ultra Precision IR
	Number of touch points		up to 50
	Interface		USB Type B × 3
Glass	Thickness		Tempered, 3.2 mm
	Hardness		9H
	AG coating		Yes
ClassroomCare® Technology	Eye care: flicker-free & low blue light		Yes (Eyesafe® Display 3.0 verified by UL Solutions; RPF® 60 / CPF 50)
	Air quality sensors & air ioniser		CO_2 - $PM_{2.5}$ - PM_{10} - TVOC - CH_2O, temperature, humidity; air ioniser
	Germ-resistant screen		Yes (certified by TÜV, SIAA & SGS)
Environment	Operating temperature		0°C ~ 40°C
	Operating humidity		10% ~ 90% RH non-condensing
Connectivity	Input		VGA × 1, HDMI 2.0 × 3, DP 1.2a × 1, Mic (3.5mm) × 1, PC Audio × 1
	Output		HDMI 2.0 x 1, Earphone (3.5 mm) × 1, SPDIF (Optical) × 1
	USB		Type A × 7 (3.0 × 4 / 2.0 × 3), Type B × 3 (3.0), Type C × 2 (3.0 PD 100 W × 1 / 2.0 × 1), Type C (out) × 1
	RS232 (in)		× 1
	RJ45 (LAN)		× 2 (Android / OPS) up to 1000Mbps
	Wireless connectivity		Built-in WD02AT (Wi-Fi 6 + Bluetooth 5.2)
	OPS slot (for slot-in PC)		× 1
	Micro SD reader		× 1
Built-in peripherals	Soundbar		70W (25W speakers × 2 | 20W subwoofer × 1)
	Microphones		8-mic array, up to 12 m pickup range
	NFC Sensor		Yes
Physical	Dimensions (W × H × D)		1957.0 × 1200.6 × 130.0 mm
	Weight (product l shipping)		55.0 kg | 73.6 kg
	Bezel width (T l B l L l R)		14.6 | 98.5 | 14.6 | 14.6 mm
	Wall mounting (VESA) (screw type / max. length)		VESA 800 × 600 mm (4 × M8 × 25L), wall mount kit included
	Pen tray		Yes
Accessories	Cables		HDMI (3 m) × 1 , Touch USB (3 m) × 1 , Type C (1.5 m) × 1
	Stylus		× 2
	Remote control		× 1

SOFTWARE

EZWrite 6
Save lessons in editable whiteboard files (IWB) with Cloud Whiteboarding. Google Classroom is integrated with EZWrite WEB.

InstaShare 2
Wireless screen sharing & casting from any device. Share several screens simultaneously, with different types of content.

X-Sign Broadcast
Announcement system with cross-campus communication. Send visual alerts, warnings, and videos to all or one specific device.

AMS
Account Management System to conveniently load and access your account and cloud storage from any BenQ display.
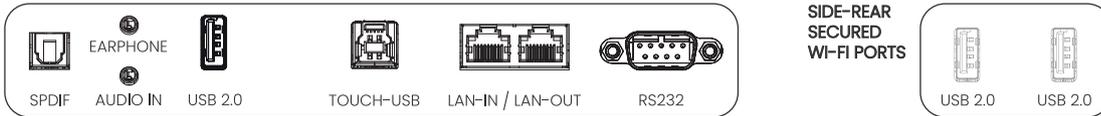
DMS
Device Management Solution centrally oversees all displays to get real-time status information, deploy OTA updates & more.
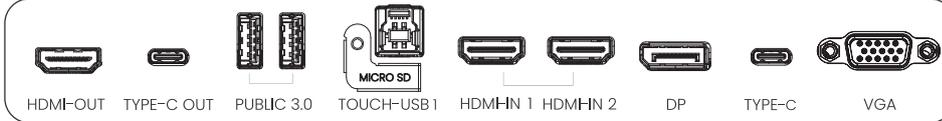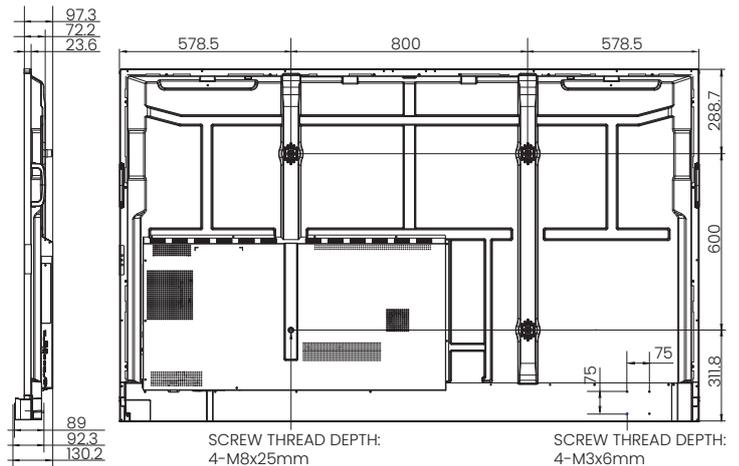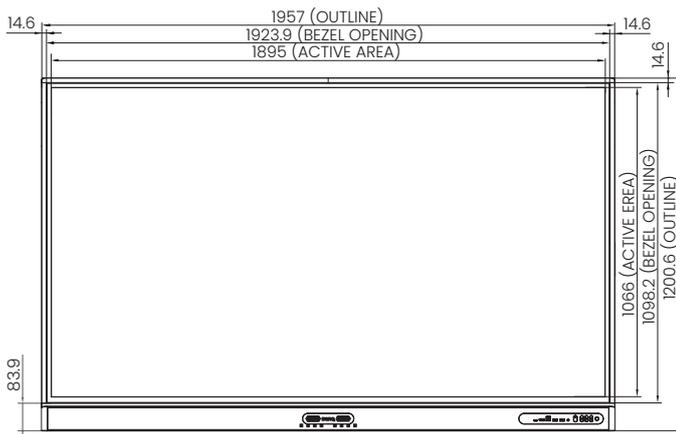
INPUT AND OUTPUT TERMINALS

FRONT I/O

NFC | TYPE-C 3.0 | HDMI-IN | TOUCH-USB | PUBLIC 3.0 | MIC-IN

DOWN I/O

EARPHONE | SPDIF | AUDIO IN | USB 2.0 | TOUCH-USB | LAN-IN / LAN-OUT | RS232

SIDE-REAR SECURED WI-FI PORTS
USB 2.0 | USB 2.0

SIDE I/O

HDMI-OUT | TYPE-C OUT | PUBLIC 3.0 | MICRO SD | TOUCH-USB 1 | HDMI-IN 1 | HDMI-IN 2 | DP | TYPE-C | VGA

DIMENSIONS (MM)

14.6 | 1957 (OUTLINE) | 14.6
1923.9 (BEZEL OPENING)
1895 (ACTIVE AREA)
14.6
1066 (ACTIVE EREA)
1098.2 (BEZEL OPENING)
1200.6 (OUTLINE)
83.9

97.3 | 72.2 | 23.6
89 | 92.3 | 130.2

578.5 | 800 | 578.5
288.7
600
311.8
75 | 75

SCREW THREAD DEPTH: 4-M8x25mm

SCREW THREAD DEPTH: 4-M3x6mm

www.benq.eu/en-eu/education.html

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