

Interactive Displays for Education

Experience the BenQ Board Difference



Specifications		BenQ Board Essential RE05A	BenQ Board Essential RE05AC	BenQ Board Pro RP05
Panel	Sizes (inches)	65" / 75" / 86"	65" / 75" / 86"	65" / 75" / 86"
	Panel type	VA	VA	IPS
	Resolution	4K UHD (3840 x 2160)	4K UHD (3840 x 2160)	4K UHD (3840 x 2160)
	Brightness	450 nits	500 nits	450 nits
	Typical contrast ratio	5500:1	5500:1	1500:1
	Dynamic contrast ratio	50,000:1	50,000:1	50,000:1
	Viewing angle (H/V)	178° / 178°	178° / 178°	178° / 178°
	Response time	6.5 ms	6.5 ms	8 ms
	Backlight life	50,000 hrs	50,000 hrs	50,000 hrs
	Panel surface	AG, Haze 25%	AG, Haze 25%	AG, Haze 25%
System	Operating hours	18 hours / 7 days	18 hours / 7 days	18 hours / 7 days
	Orientation	Landscape	Landscape	Landscape
	Memory / Storage	8 GB / 128 GB	8 GB / 128 GB	16 GB / 256 GB
	OS	Android 16 Google EDLA	Android 16 Google EDLA	Android 15 Google EDLA
	CPU	Arm Cortex-A72 × 4 + A53 × 4	Arm Cortex-A72 × 4 + A53 × 4	Arm Cortex-A78 × 2 + A55 × 6
	GPU	Arm Mali-G52 MC3	Arm Mali-G52 MC3	Arm Mali-G57 MC2
Power	AI Processing (NPU)	6 TOPS	6 TOPS	10 TOPS
	Typical power consumption (65" / 75" / 86")	65.9 / 71.9 / 100.2 W	75.8 / 82.7 / 115.2 W	77.4 / 91.1 / 126.4 W
	Power supply	AC 100-240 V, 50 / 60 Hz	AC 100-240 V, 50 / 60 Hz	AC 100-240 V, 50 / 60 Hz
	AC power switch	☒	☒	☑
	ENERGY STAR®	☑	☑	☑
Touch	Wake up	LAN / HDMI	LAN / HDMI	LAN / HDMI / VGA / DP
	Technology	Precision IR	Precision IR	Ultra Precision IR
	Number of touchpoints	Up to 50	Up to 50	Up to 50
Glass	Thickness	3.2 mm	3.2 mm	3.2 mm
	Hardness	9H tempered	9H tempered	9H tempered
	AG coating	☑	☑	☑
ClassroomCare® technology	Eye care (low blue light / flicker-free)	☑ Certified by TÜV	☑ Certified by TÜV	☑ Eyesafe® Display 3.0 verified by UL Solutions; RPF* 60 / CPF 50
	Germ-resistant screen	☒	☑ Certified by TÜV, SIAA & SGS	☑ Certified by TÜV, SIAA & SGS
	Air quality sensors & air ioniser	☒	☒	☑ CO ₂ - PM _{2.5} - PM ₁₀ - TVOC - CH ₂ O, temperature, humidity; air ioniser
Connectivity	Input	HDMI 2.0 × 3, Mic-in (3.5 mm) × 1	HDMI 2.0 × 3, Mic-in (3.5 mm) × 1	VGA × 1, HDMI 2.0 × 3, DP 1.2a × 1, Mic-in (3.5mm) × 1, PC Audio × 1
	Output	HDMI 2.0 × 1, Earphone (3.5 mm) × 1, SPDIF (Optical) × 1	HDMI 2.0 × 1, Earphone (3.5 mm) × 1, SPDIF (Optical) × 1	HDMI 2.0 × 1, Earphone (3.5 mm) × 1, SPDIF (Optical) × 1
	USB	Type-A: 1 × 2.0 + 3 × 3.2 Gen 1 × 1; Type-B: 2 × 2.0; Type-C: 1 × 3.2 Gen 1 × 1 (data/video/audio/touch/PD 65 W)	Type-A: 1 × 2.0 + 3 × 3.2 Gen 1 × 1; Type-B: 2 × 2.0; Type-C: 1 × 3.2 Gen 1 × 1 (data/video/audio/touch/PD 65 W)	Type-A: 3 × 2.0 + 4 × 3.2 Gen 1 × 1; Type-B: 3 × 3.2 Gen 1 × 1; Type-C: 1 × 2.0 + 1 × 3.2 Gen 1 × 1 (PD 100 W); Type-C Out: 1 × 2.0 (data/video/audio/touch)
	RS-232 (In)	× 1	× 1	× 1
	RJ45 (LAN)	× 1 (Android: up to 1000 Mbps / OPS: up to 100 Mbps)	× 1 (Android: up to 1000 Mbps / OPS: up to 100 Mbps)	× 2 (Android / OPS, up to 1000 Mbps)
	Wi-Fi 6 / Bluetooth® 5.2	Optional (WD02AT)	Built-in (WD02AT)	Built-in (WD02AT)
	OPS slot	☑	☑	☑
	Micro SD reader	☒	☒	☑
Built-in peripherals	Speaker	25 W × 2	12 W × 2	25 W × 2
	Subwoofer	☒	30 W × 2	20 W × 1
	Microphones	☒	8-mic array	8-mic array
	Camera	☒	☑ 50MP 4K with AI features	☒
	NFC sensor	☒	☑	☑
Accessories (included)	Stylus	× 2 (PT06)	× 2 (PT06)	× 2 (PT01GN)
	Remote control	☑	☑	☑
	Wall mount	☑	☑	☑
Built-in software	EZWrite 6 (interactive whiteboarding)	☑	☑	☑
	InstaShare 2 (Wireless screen sharing)	☑	☑	☑
	AMS (Account management)	☑	☑	☑
	DMS (Device management)	☑	☑	☑
	X-Sign Broadcast (Broadcast system)	☑	☑	☑
	IAM (Access management)	☑	☑	☑
	Floating Tool (Quick access tool)	☑	☑	☑

Warranty terms and conditions may change based on the country of purchase and local regulations.



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