

SAMSUNG

Micro RGB R85H 4K Samsung Vision AI Smart TV (2026)

The answer to your vivid imagination



65", 75"

Top Features

Ask your companion. Samsung Vision AI is here.

Getting help from Samsung Vision AI Companion has never been easier. Responses come instantly with related video/image options to choose from, making your discovery richer and more personalised than any other AI assistant on your TV.¹

Micro-sized RGB LED lights, hyper-realistic colour

Sometimes smaller is better. Dive into a world of hyper-realistic hues & detail with the world's first micro-sized red, green & blue (RGB) LEDs colour backlight in a TV measuring at $\leq 100 \mu\text{m}$.²

Unlock enhanced colour & control with the Micro RGB AI Engine

Our Micro RGB AI Engine is designed to finely control the micro-sized RGB backlights & is focused on optimising your viewing for a more enhanced experience.³

Masterful colour precision that unlocks ultra-realistic picture quality

Our precise Micro RGB dimming technology can deliver beyond cinema colour with a $\geq 100\%$ BT.2020 gamut ratio*. Discover a stunningly accurate spectrum of hues with incredible detail.⁴

1 Information based on Samsung TV Plus channels only. Provides AI created content, with accuracy not guaranteed. Not all accents, dialects, and expressions are recognised. Availability of features may vary. Available on 2025 Q7F and above, and 2026 TVs.

2 Based on internal research as at 17 November 2025. VDE Testing and Certification Institute has tested and positively evaluated that the RGB Micro LED size is $\leq 100 \mu\text{m}$. Test Report 331701-TL6-, valid until 8 July 2026.

3 Viewing experience may vary according to types of content and format. Upscaling may not apply to PC connection and Game Mode.

4 VDE Testing and Certification Institute has tested and positively evaluated that Series R85H has a picture quality for Micro RGB Colour gamut ratio of BT.2020 (CIE u',v' $\geq 100\%$). Test Report 331701-TL6-, valid until 8 July 2026. Based on the wider colour gamut of BT.2020 when compared to DCI-P3.

Product	Product Category	65"	75"
		MICRO RGB	MICRO RGB
	Model Number	MRA65R95HAWXXY	MRA75R95HAWXXY
Display	Screen Size	65"	75"
	Resolution	3840 x 2160	3840 x 2160
	Refresh Rate	144 Hz VRR (100 Hz Native)	144 Hz VRR (100 Hz Native)
	DLG	240 Hz	240 Hz
	Anti Reflection	N/A	N/A
Video	Picture Engine	Micro RGB AI Engine	Micro RGB AI Engine
	Micro Dimming	Ultimate Micro Dimming	Ultimate Micro Dimming
	Colour	Micro RGB Precision Colour 100	Micro RGB Precision Colour 100
	Contrast Enhancer	Real Depth Enhancer	Real Depth Enhancer
	Motion Technology	Motion Xcelerator 144 Hz	Motion Xcelerator 144 Hz
	Smart Calibration	N/A	N/A
	AI Picture	AI Optimised/AI Customisation	AI Optimised/AI Customisation
	Picture Upscale	4K Upscaling	4K Upscaling
	AI Motion Enhancer	N/A	N/A
	Supersize Picture Enhancer	N/A	N/A
	HDR Brightness Optimiser	Yes	Yes
	Colour Booster	Micro RGB Colour Booster Pro	Micro RGB Colour Booster Pro
	Viewing Angle	Wide Viewing Angle	Wide Viewing Angle
	HDR (High Dynamic Range)	Micro RGB HDR Pro	Micro RGB HDR Pro
	HDR 10+	Yes (ADAPTIVE / GAMING / ADVANCED)	Yes (ADAPTIVE / GAMING / ADVANCED)
	Contrast	Micro RGB Technology	Micro RGB Technology
	Filmmaker Mode	Yes	Yes
EyeComfort Mode	Yes	Yes	
Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering	
Audio	Dolby Atmos	Yes	Yes
	Object Tracking Sound	OTS Lite	OTS Lite
	Q-Symphony	Yes	Yes
	Sound Output (RMS)	30WW	30WW
	Speaker Type	2CH	2CH
	Active Voice Amplifier	Yes (Active Voice Amplifier Pro)	Yes (Active Voice Amplifier Pro)
	Adaptive Sound	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)
	360 Audio	Yes	Yes
	AI Sound Controller	AI Sound Controller	AI Sound Controller

	65"	75"	
Smart Service	Far-Field Voice Interaction	Yes	Yes
	Built-in Voice Assistant	Alexa	Alexa
	Works with AI Speaker	Alexa, Google Assistant	Alexa, Google Assistant
	Operating System	Tizen™ Smart TV	Tizen™ Smart TV
	Bixby	Yes	Yes
	Samsung TV Plus	Yes	Yes
	Web Browser	Yes	Yes
	SmartThings Hub / Matter Hub / IoT-Sensor Functionality / Quick Remote	Yes	Yes
Universal Guide	Yes	Yes	
Smart Feature	Multi Device Experience	Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On	Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On
	Multi-View	Up to 2 videos	Up to 2 videos
	Apple AirPlay 2	Yes	Yes
	Daily+	Yes	Yes
	Now brief	Voice / User Detection	Voice / User Detection
	Storage Share	Yes	Yes
	Vision AI Companion	Yes (AU, VN, TH, MM, KH, LA, PH, SG)	Yes (AU, VN, TH, MM, KH, LA, PH, SG)
	Generative Wallpaper	Yes	Yes
	Karaoke Mic	Yes	Yes
	Google Cast	Yes	Yes
Soccer / Football Mode	AI Soccer / Football Mode	AI Soccer / Football Mode	
Game Feature	Auto Game Mode (ALLM)	Yes	Yes
	Game Motion Plus	Yes	Yes
	VRR	Yes	Yes
	Dynamic Black EQ	Yes	Yes
	Surround Sound	Yes	Yes
	Ultra Wide Game View	Yes	Yes
	Game Bar	Yes	Yes
	MiniMap Zoom	Yes	Yes
	Hue Sync	Yes	Yes
	FreeSync	FreeSync Premium Pro	FreeSync Premium Pro
	G-SYNC	N/A	N/A
	HGiG	Yes	Yes
	Gaming Hub	Yes (KR, US, CA, BR, GB, FR, DE, IT, ES, MX, AU)	Yes (KR, US, CA, BR, GB, FR, DE, IT, ES, MX, AU)
AI Auto Game Mode	Yes	Yes	

		65"	75"
Tuner/Broadcasting	Digital Broadcasting	DVB-T(T2 Ready)	DVB-T(T2 Ready)
	CI (Common Interface)	N/A	N/A
	Analog Tuner	Yes	Yes
Connectivity	HDMI	4	4
	HDMI Maximum Input Rate	4K 165 Hz (for HDMI 1/2/3/4)	4K 165 Hz (for HDMI 1/2/3/4)
	USB	2 x USB-A	2 x USB-A
	POGO (SlimFit Cam Only)	N/A	N/A
	Ethernet (LAN)	1	1
	Audio Out (Mini Jack)	N/A	N/A
	Digital Audio Out (Optical)	1	1
	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A	N/A
	HDMI Audio Return Channel	eARC	eARC
	One Connect Box	N/A	N/A
	Wi-Fi	Yes (Wi-Fi 6E)	Yes (Wi-Fi 6E)
	Bluetooth	Yes (5.3)	Yes (5.3)
Anynet+ (HDMI-CEC)	Yes	Yes	
Design	Design	Monolith Edge	Monolith Edge
	Bezel Type	3 Bezel-less	3 Bezel-less
	Front Colour	SLATE BLACK	SLATE BLACK
	Stand Type	ROUND FEET	ROUND FEET
	Stand Colour	BLACK	BLACK
Additional Feature	Auto Rotation	N/A	N/A
	Art Mode	N/A	N/A
	Art Store	Yes	Yes
	Motion Detection	N/A	N/A
	Knox Vault	N/A	N/A
	Embedded POP	Yes	Yes
	EPG	Yes	Yes
	Extended PVR	Yes	Yes
	IP Control	Yes	Yes
	OSD Language	Local Languages	Local Languages

		65"	75"
Accessibility	Auto Description	Yes	Yes
	High Contrast	Yes	Yes
	Zoom Menu and Text	Yes	Yes
	SeeColours	Yes	Yes
	Colours Inversion	Yes	Yes
	Grayscale	Yes	Yes
	Auto Picture Off	Yes	Yes
	Magnification	Yes	Yes
	Relumino	Yes	Yes
	Audio Subtitles	Yes	Yes
	Audio Phone Number	Yes	Yes
	Closed Caption	N/A	N/A
	Separate Closed Caption	N/A	N/A
	Slow Button Repeat	Yes	Yes
	Accessibility Shortcuts Edit	Yes	Yes
	Learn TV Remote	Yes	Yes
	Learn Menu Screen	Yes	Yes
	Accessibility Shortcuts Edit	Yes	Yes
	Auto Menu Sort	Yes	Yes
Sensory-friendly Mode	N/A	N/A	
Voice Guide	Chinese (China),English (Australia),French (France),German (Germany),Italian (Italy),Korean (Korea),Malay (Malaysia),Spanish (Spain)	Chinese (China),English (Australia),French (France),German (Germany),Italian (Italy),Korean (Korea),Malay (Malaysia),Spanish (Spain)	
Power & Eco Solution	Power Supply	AC220-240V~ 50/60Hz	AC220-240V~ 50/60Hz
	Power Consumption (Max)	230W	280W
	Power Consumption (Stand-by)	0.5 W	0.5 W
	Power Consumption (Energy Saving Mode)	N/A	N/A
	Power Consumption (Typical)	147.0W	180.0W
	Yearly Power Consumption (EU standard)	540kWh	660kWh
	Auto Power Saving	Yes	Yes
	Auto Power Off	Yes	Yes
	Eco Sensor	Yes	Yes
Energy Efficiency Class	4	4.5	

		65"	75"
Dimension	Package Size (WxHxD)	1578 x 933 x 142mm	1830 x 1075 x 164mm
	Set Size with Stand (WxHxD)	1442.9 x 867.1 x 256.8mm	1666.6 x 993.8 x 319.8mm
	Set Size without Stand (WxHxD)	1442.9 x 831.2 x 52mm	1666.6 x 957.8 x 52.3mm
	Stand (Basic) (WxD)	1209.5 x 256.8mm	1403.2 x 319.8mm
	Stand (Minimum) (WxD)	300.3 x 256.8mm	340.6 x 319.8mm
	VESA Spec	400 x 300mm	400 x 300mm
Weight	Package Weight	25.6kg	34.3kg
	Set Weight with Stand	19.5kg	25.9kg
	Set Weight without Stand	19.1kg	25.4kg
Accessory	Remote Controller Model	TM2660H	TM2660H
	Slim Fit Wall-mount Support	Yes	Yes
	Studio Stand Support	Yes	N/A
	Customizable Frame Support	N/A	N/A
	Full Motion Slim Wall Mount Support (Y22)	Yes	Yes
	SlimFit Cam Support	Yes	Yes
	Zigbee / Thread Module	Dongle Support	Dongle Support
	User Manual	Yes	Yes
	Power Cable	Yes	Yes
	One Connect Box Holder	N/A	N/A
Software Support	Security Update Period (At least 5 years)	31 Dec 2031	31 Dec 2031