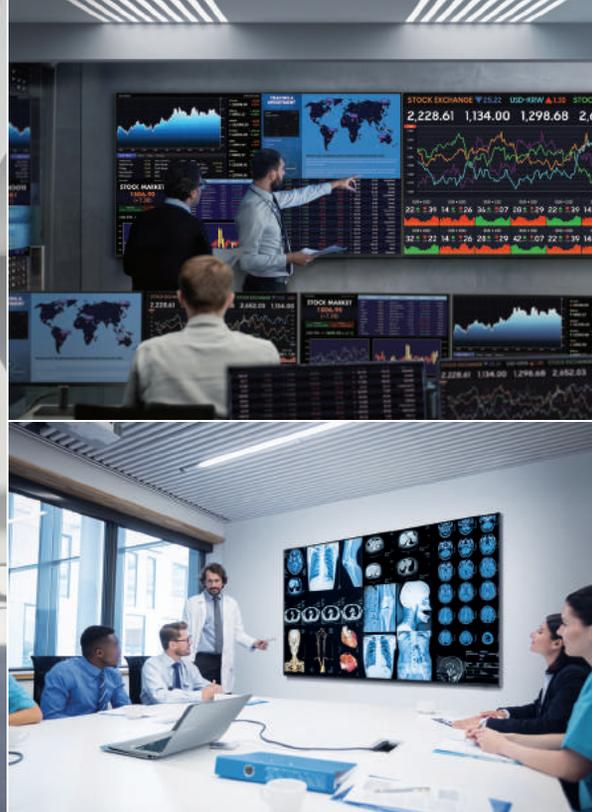


# SAMSUNG



# QPA-8K Series



## Presenting business in 8K. Presenting Neo QLED.

Introducing the next generation of QLED: Samsung Neo QLED. Powered by more than 33 million pixels and a billion shades of color, Neo QLED 8K signage delivers a more realistic, more captivating experience. With Mini LED technology and the Neo Quantum Processor, Samsung QPA-8K signage displays offer exacting backlight control, for incredible blacks and stunningly detailed color. And with AI-powered upscaling, every message, every promotion, every presentation will demand attention like never before.



## QPA-8K Series

# Signage displays that transform ordinary messages into extraordinary experiences.



### Even the details have details

Samsung QPA-8K Neo QLED displays feature proprietary Quantum Mini LEDs controlled by our Neo Quantum Processor 8K, for a picture that delivers detail in the extreme. Our Quantum Mini LEDs are as small as a grain of sand, and are 1/40th the size of conventional LEDs. They give us incredible control over detail and color. The vast array of tiny light cells delivers hyper-focused brightness and dimming in all the right areas, for a picture that simply has to be seen to be believed.



### Crystal clarity with 33 million pixels

Feel the power of every frame with 33 million pixels in Real 8K Resolution.<sup>1</sup> QPA-8K displays provide an incredible sense of depth with optimal clarity at four times the resolution of 4K, and 16 times higher than FHD.

8K

### An optimized and stunningly impressive 8K viewing experience

Experience unimaginable clarity and depth with the powerfully adaptive Neo Quantum Processor 8K. It analyzes data and learns scene by scene, optimizing every frame of everything you display. Every visual detail will be faithfully and spectacularly reproduced.<sup>2</sup>



### Display all your content in incredible 8K

Transform every image and every video into outstanding 8K. The QPA-8K displays feature AI-powered upscaling technology that maximizes every bit of content you display.<sup>3</sup> Deep learning algorithms combine with the Neo Quantum Processor 8K to ensure a memorable viewing experience that will enhance every business.



### Unimaginable contrast to enhance every detail

The Quantum Matrix Technology Pro backlight dimming technology controls the Quantum Mini LEDs with optimum precision. Every detail is displayed with 12-bit (4,096 levels) contrast levels, from the darkest blacks to the purest whites, while the Local Brightness Booster enhances any content.



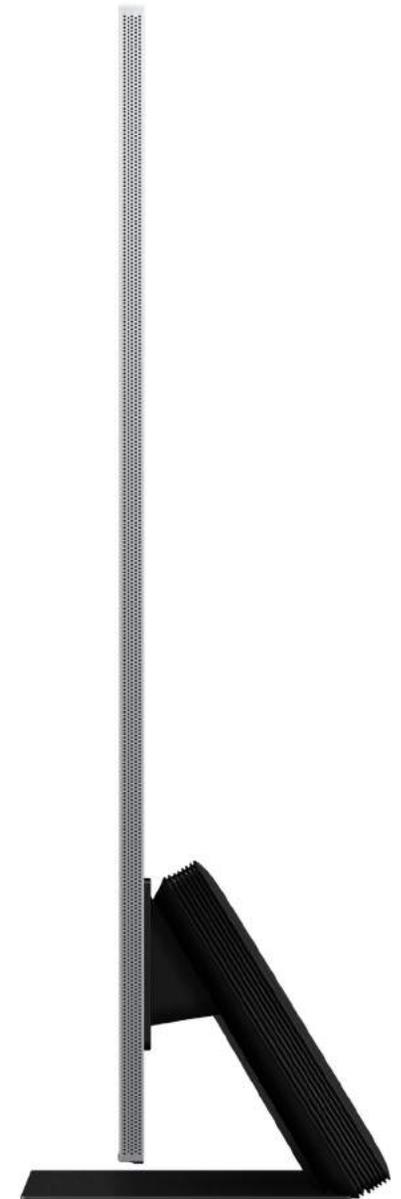
### Real-time picture refinement

QPA-8K signage displays feature Adaptive Picture Mode, which optimizes brightness based on the surrounding lighting conditions for the best picture quality possible. Real-time refinement provides uniform picture quality regardless of changing light, delivering for bold, vibrant always-impressive visuals.



### A billion shades of brilliant

Take light to a different realm with advanced Quantum Dot technology. 100% color volume with Quantum Dot delivers a billion breathtaking shades of color that stay true, regardless of brightness or ambient lighting.<sup>4</sup>



## QPA-8K Series

# Every aspect of them was designed to make business better.



### Minimized glare for increased engagement

Ensure your content is seen without interruption any hour of the day with Samsung's critically acclaimed anti-reflection technology. It minimizes glare and reduces reflected disruptions, allowing customers to focus on the content for optimal engagement and an improved experience.



### Spectacular clarity in every scene

Samsung Neo QLED 8K perfectly optimizes every scene with Quantum HDR 32X, offering superior accuracy for rich, refined visuals. Details come to life with rich color and deeper contrast. And HDR10+ dynamic tone mapping shifts color and contrast scene-by-scene for spectacular clarity.<sup>5</sup>



### Content as it was intended

Featuring built-in Director Mode, Samsung QPA-8K signage displays allow users to minimize post-processing. Color, proportion and more are displayed more faithfully to the director's original vision.



### Clear view from any angle

An Ultra Viewing Angle, thanks to Quantum Light Control and film technology, delivers a consistent, clear picture regardless of viewing position. With Samsung QPA-8K displays, every viewing position is an optimal one.



### A perfect fit for your business

Create engaging customer experiences that effortlessly blend digital and physical environments. With our slimmest profile yet paired with impossibly slim bezels, the Infinity One Design is an immersive experience that seamlessly complements any business space. QPA-8K signage displays can be mounted flush to the wall, or with pivot capability, can be installed vertically.



### Clutter-free solution

An elegant solution to reducing cable clutter, Slim One Connect is a discreet box that keeps wires out of sight, regardless of the installation type and surrounding environment. With streamlined connectivity, QPA-8K displays ensure a clutter-free customer environment that enhances every business environment.



### Improved efficiency in healthcare

DICOM Simulation Mode allows medical teams to collaborate more efficiently and effectively. In DICOM Simulation Mode, QPA-8K displays meet 100% of the grayscale requirements of DICOM standards, to more accurately simulate medical images such as X-rays.<sup>6</sup>



### Reliable operation, 16/7

Commercial-level cooling technologies offer dependable reliability with a 16/7 runtime. And to add to your peace of mind, Samsung QPA-8K displays come with a 3-year onsite warranty.

# QPA-8K Series

QPA-8K Series Specifications					
Model Name			QP65A-8K	QP75A-8K	QP85A-8K
Panel	Diagonal Size	Class Measured	65 64.5"	75 74.5"	85 84.5"
	Type		Direct LED BLU (Mini LED)	Direct LED BLU (Mini LED)	Direct LED BLU (Mini LED)
	Resolution		7680 x 4320	7680 x 4320	7680 x 4320
	Pixel Pitch (mm)		186 x 186 um	214.86 x 214.86 um	243.75 x 243.75 um
	Active Display Area		1458.48 (H) x 803.52 (V)	1650.1248 (H) x 928.1952 (V)	1872 (H) x 1053(V)
	Brightness (Typ.)		500 nit (HDR 2,000 nit)	500 nit (HDR 2,000 nit)	500 nit (HDR 2,000 nit)
	Contrast Ratio (Typ.)		1,200:1	1,200:1	1,200:1
	Viewing Angle (H/V)		178 / 178	178 / 178	178 / 178
	Response Time (G to G)		6.5ms	6.5ms	6ms (Typ.)
	Display Colors		1.07B	1.07B	1.07B
	Color Gamut		93% (DCI-P3)	93% (DCI-P3)	93% (DCI-P3)
	Operation Hours		16/7	16/7	16/7
	Haze		2%	2%	2%
Display	Dynamic Contrast Ratio		Mega	Mega	Mega
	H-Scanning Frequency		270 Hz	270 Hz	270 Hz
	V-Scanning Frequency		120 Hz	120 Hz	120 Hz
	Maximum Pixel Frequency		2.376GHz	2.376GHz	2.376GHz
Sound	Speaker Type		Built-in Speaker (70W 4.2.2ch)	Built-in Speaker (70W 4.2.2ch)	Built-in Speaker (70W 4.2.2ch)
Connectivity	Input	Video	HDMI 2.1 (HDMI 4), HDMI 2.0 (HDMI 1, 2, 3)	HDMI 2.1 (HDMI 4), HDMI 2.0 (HDMI 1, 2, 3)	HDMI 2.1 (HDMI 4), HDMI 2.0 (HDMI 1, 2, 3)
		HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2
		USB	USB 2.0 x 3	USB 2.0 x 3	USB 2.0 x 3
	Output	Audio	Digital Audio Out (Optical)	Digital Audio Out (Optical)	Digital Audio Out (Optical)
		External Control	RS232C (in) through stereo jack, RJ45	RS232C (in) through stereo jack, RJ45	RS232C (in) through stereo jack, RJ45
Power	Type		Internal (OC Box)	Internal (OC Box)	Internal (OC Box)
	Power Supply		AC100-240V 50/60Hz	AC100-240V 50/60Hz	AC100-240V 50/60Hz
		Max (W/H)	407	407	489.5
	Power Consumption	Typical (W/H)	291	320	390
		Rating (W/H)	370	370	445
		BTU (Max)	1387.87	1387.87	1669.2
		Sleep Mode	0.5	0.5	0.5
Mechanical Specs	Dimensions	Set	1443.7 x 828.4 x 16.9mm (w/o stand) / 56.84" x 32.61" x 0.67"	1668.3 x 955.6 x 17.2mm (w/o stand) / 65.68" x 37.62" x 0.68"	1893.4 x 1083.0 x 17.4mm (w/o stand) / 74.54" x 42.64" x 0.69"
		Package	1625 x 947 x 195mm / 63.98" x 37.28" x 7.68"	1872 x 1144 x 196mm / 73.7" x 45.04" x 7.72"	2114 x 1260 x 220mm / 83.23" x 49.61" x 8.66"
	Weight	Set	22.7kg (w/o stand) / 50.1 lbs.	32.1kg (w/o stand) / 70.8 lbs.	43.3kg (w/o stand) / 95.5 lbs.
		Package	43.4kg / 95.7 lbs.	57.5kg / 126.7 lbs.	71.7kg / 158.1 lbs.
	VESA Mount		400 x 300	400 x 400	600 x 400
Bezel Width (Top / Sides / Bottom) (mm)		4-sided Bezel-Less	4-sided Bezel-Less	4 Bezel-Less	
Operation	Operating Temperature		32° F - 104° F	32° F - 104° F	32° F - 104° F
	Humidity		10-80%	10-80%	10-80%
Feature	Key Orientation		8K Signage Display, Built-in MagicInfo S9, SSSP, HDR10+ Landscape / Portrait	8K Signage Display, Built-in MagicInfo S9, SSSP, HDR10+ Landscape / Portrait	8K Signage Display, Built-in MagicInfo S9, SSSP, HDR10+ Landscape / Portrait
	Special	H/W	Temperature Sensor, Pivot Display, Clock Battery (168 Hrs Clock Keeping), Built-in Speaker (70W 4.2.2ch), Wi-Fi / BT	Temperature Sensor, Pivot Display, Clock Battery (168 Hrs Clock Keeping), Built-in Speaker (70W 4.2.2ch), Wi-Fi / BT	Temperature Sensor, Pivot Display, Clock Battery (168 Hrs Clock Keeping), Built-in Speaker (70W 4.2.2ch), Wi-Fi / BT
		S/W	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot Key Option, Plug & Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot Key Option, Plug & Play (Initial Setting)	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot Key Option, Plug & Play (Initial Setting)
	Internal Player (Embedded H/W)	Processor	CA76 Quad (1.66GHz)	CA76 Quad (1.66GHz)	CA76 Quad (1.66GHz)
		On-Chip Cache Memory	L1 Instruction Cache: 64KB   L1 Data Cache: 64KB   L2 Cache: 256KB   L3 Cache: 2MB	L1 Instruction Cache: 64KB   L1 Data Cache: 64KB   L2 Cache: 256KB   L3 Cache: 2MB	L1 Instruction Cache: 64KB   L1 Data Cache: 64KB   L2 Cache: 256KB   L3 Cache: 2MB
		Clock Speed	1.66GHz	1.66GHz	1.66GHz
		Main Memory Interface	5GB LPDDR4 1866MHz 128bit	5GB LPDDR4 1866MHz 128bit	5GB LPDDR4 1866MHz 128bit
		Graphics	Graphic Resolution: 3840x2160 Output Resolution: 7680x4320 (Scale up from graphic processing result)	Graphic Resolution: 3840x2160 Output Resolution: 7680x4320 (Scale up from graphic processing result)	Graphic Resolution: 3840x2160 Output Resolution: 7680x4320 (Scale up from graphic processing result.)
		Storage (FDM)	16GB (5.8GB Occupied by O/S, 10.2GB Available)	16GB (5.8GB Occupied by O/S, 10.2GB Available)	16GB (5.8GB Occupied by O/S, 10.2GB Available)
		Multimedia	Video Decoder: H.264, HEVC, Motion JPEG, MVC, MPEG-1/2/4, VC1, WMV1, WMV2, H.263, VP6, AV1, VP8, VP9, RV8/9/10 Audio Decoder: DD, DD+, LPCM, ADPCM, AAC, HE-AAC, WMA, MPEG, AC-4, G.711, OPUS, Vorbis, RealAudio6	Video Decoder: H.264, HEVC, Motion JPEG, MVC, MPEG-1/2/4, VC1, WMV1, WMV2, H.263, VP6, AV1, VP8, VP9, RV8/9/10 Audio Decoder: DD, DD+, LPCM, ADPCM, AAC, HE-AAC, WMA, MPEG, AC-4, G.711, OPUS, Vorbis, RealAudio6	Video Decoder: H.264, HEVC, Motion JPEG, MVC, MPEG-1/2/4, VC1, WMV1, WMV2, H.263, VP6, AV1, VP8, VP9, RV8/9/10 Audio Decoder: DD, DD+, LPCM, ADPCM, AAC, HE-AAC, WMA, MPEG, AC-4, G.711, OPUS, Vorbis, RealAudio6
IO Ports	USB 2.0	USB 2.0	USB 2.0		
Operating System	Tizen 6.0 (VDLinux)	Tizen 6.0 (VDLinux)	Tizen 6.0 (VDLinux)		
Certification	Safety		60065, 62368-1 Class B	60065, 62368-1 Class B	60065, 62368-1 Class B
	EMC		Class B	Class B	Class B
Accessories	Included		Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries
	Optional	Stand	In Box	In Box	In Box

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<sup>1</sup>Real 8K Resolution is defined as having 7,680 x 4,320 pixels. Native 8K content based on current 8K streaming, connectivity and decoding standard. Future and certain party standards not guaranteed or may require additional device/adaptor purchase. <sup>2</sup>Viewing experience may vary according to the type of content and format. <sup>3</sup>Upscales to 8K resolution. Resulting picture may vary based on source content. Upscaling may not apply to other external connections such as PC. <sup>4</sup>100% color volume measured in Movie Mode, certified by VDE. <sup>5</sup>The range of Quantum HDR luminance is based on internal testing standards and subject to change according to viewing conditions or specifications. <sup>6</sup>DICOM<sup>®</sup> (Digital Imaging and Communications in Medicine) is the international standard for medical images and related information. DICOM simulation mode is for non-diagnostic, reference purposes only.