Neo QLED 8K Signage

QPA-8K series

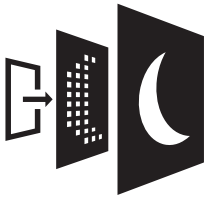The next generation of QLED for business, in 8K

Delivering the realistic visual experience customers expect

Higher resolution content can bring visuals to life in ways never seen before, delivering a more realistic, captivating experience. This enhanced sense of reality ensures all content has a deeper impact on the viewer, while accurately and emotively representing a brand's image in the most memorable way.

Whether in a flagship store, or a high-end showroom, the right display technology provides premium visuals that can set a business apart. Samsung Neo QLED 8K Signage was evolved with this in mind, now equipped with Quantum Matrix Technology Pro, offering detailed backlight control technology with Mini LED for the most advanced professional 8K display.
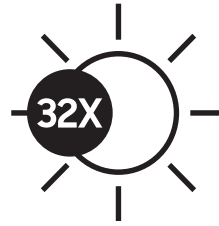
Unrivalled Picture Quality

Quantum Matrix Technology Pro
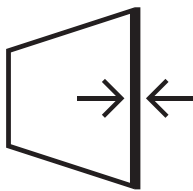(Quantum Mini LED)
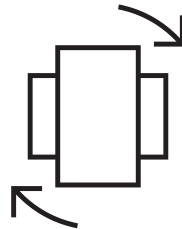
New Quantum Processor 8K

Quantum HDR 32x

100% Color Volume with Quantum Dot*

* 100% color volume measured in Movie Mode, certified by VDE.

Designed for Business

Boundless Design
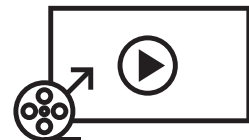
Portrait Mode

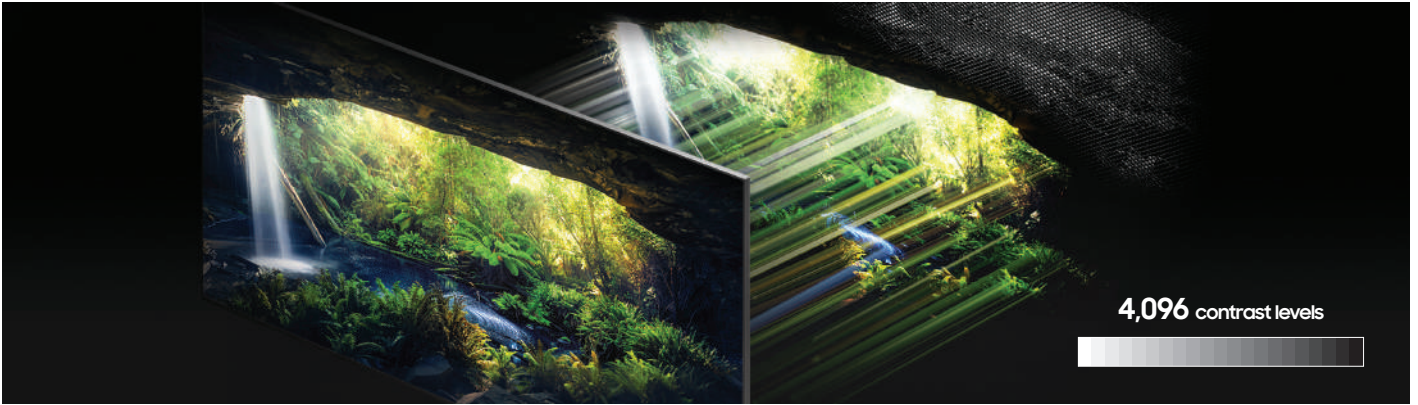**Attachable Slim One Connect**

Built for Professionals
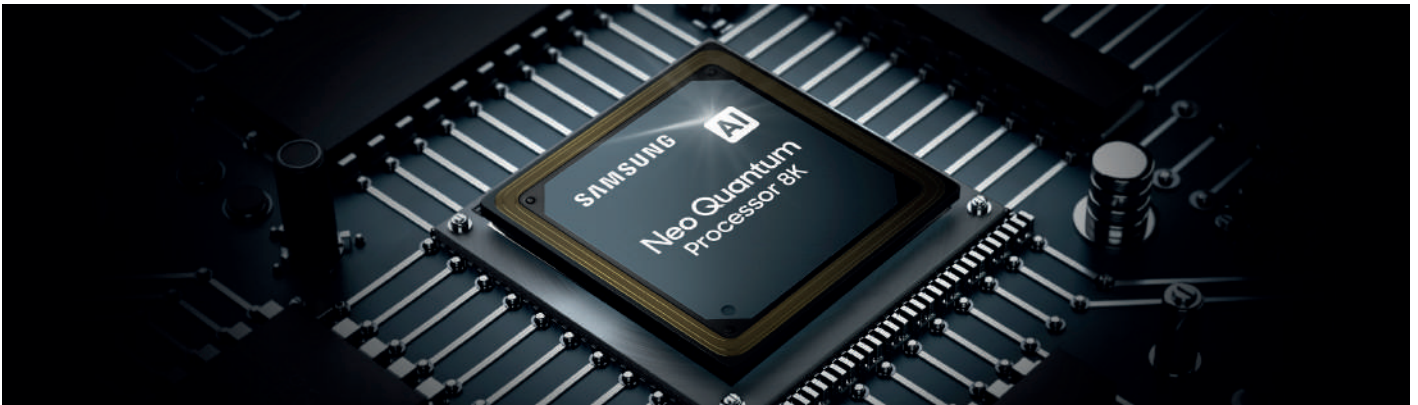
Adaptive Picture

DICOM Simulation Mode

Director Mode

Unrivalled Picture Quality

4,096 contrast levels

Precise dimming to enhance every detail

Backlight dimming technology controls the proprietary Quantum Mini LEDs with optimum precision. Every detail is displayed on Neo QLED 8K Signage, from the darkest blacks to the purest whites, with 12-bit (4,096 levels) contrast levels and Local Brightness Booster to enhance any content.

Optimized 8K viewing experience

Neo QLED 8K utilizes an advanced multi-intelligent processor that learns scene by scene using data generated from 16 neural networks instead of one. AI upscaling technology creates an optimized viewing experience and enhances every visual detail of your 8K content.

* Viewing experience may vary according to the type of content and format. Upscaling may not apply to other external connections such as PC.

Crystal clarity with 33 million pixels

Experience groundbreaking, super-high resolution, four times higher than 4K UHD content and 16 times higher than FHD with Samsung's Neo QLED 8K. With more than 33 million pixels, every frame is showcased with optimal clarity, producing spectacular visuals that enhance any business setting.

* 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/adapter purchase.

AI-powered image enhancement

AI-powered machine learning utilizes deep learning algorithms to analyze data from millions of images to reduce noise and refine details. The Neo Quantum Processor 8K, built into Neo QLED 8K Signage, delivers clearer pictures and ensures a memorable viewing experience that will define your business.

* Viewing experience may vary according to types of content and format. '8K AI Upscaling' may not apply to PC connection and Game Mode.

A billion, brilliant colors

Samsung Neo QLED 8K Signage uses advanced Quantum Dot technology to transform light into brilliant color that remains true regardless of brightness or ambient lighting. With over a billion shades of color, Quantum Dot dynamically enhances content to bring any business to life.

*100% color volume measured in Movie Mode, certified by VDE.

Minimize distractions for increased engagement

Whether exposed to any sunlight or under a light fitting, Samsung's critically acclaimed anti-reflection technology ensures distractions are minimized in a variety of environment, allowing customers to focus on the content for optimal engagement and an improved experience.

Superior accuracy in every scene

Samsung Neo QLED 8K perfectly optimizes every scene with Quantum HDR 32X, offering superior accuracy for rich, refined visuals. The dynamic HDR10+ tone mapping shifts color and contrast, allowing viewers to appreciate even minor details, bringing business content to life in total clarity.

* The range of Quantum HDR luminance is based on internal testing standards and subject to change according to viewing conditions or specifications.

Clear view from any angle

An Ultra Viewing Angle, thanks to QLC and film technology, delivers a consistent, clear picture regardless of standing position when any user is viewing the Neo QLED 8K. Applied to all QPA-8K displays, Ultra Viewing Angle ensures every detail is seen and every viewing position is an optimal one.

Designed for Business

Flexible installation for custom designs

Samsung Neo QLED 8K Signage can be mounted flush to the wall or installed vertically using the new pivot functionality. Along with a slim, simple bezel design, Neo QLED 8K will enhance any business environment, complementing aesthetics while optimizing the space for efficiency.

One connect box

Clutter-free connectivity

Attachable One Connect minimizes cable clutter regardless of the installation type and surrounding environment. With streamlined connectivity, Neo QLED 8K ensures a clutter-free customer environment while delivering an efficient solution that performs for your business.

Built for Professionals

Real-time picture refinement

Neo QLED 8K offers Adaptive Picture, which optimizes content brightness and provides the best picture quality possible based on the surrounding lighting conditions. Real-time refinement provides uniform picture quality regardless of changes in the light for bold, vibrant visuals.

Improved efficiency in healthcare

Medical teams can collaborate more efficiently and effectively than ever thanks to Neo QLED 8K's DICOM Simulation Mode, which meets 100% of grayscale required by DICOM standard. Plus, it helps to simulate medical images such as X-rays.

* DICOM® - Digital Imaging and Communications in Medicine – is the international standard for medical images and related information.
* DICOM Simulation Mode is for non-diagnostic, reference purpose only.

Content as it was intended

Featuring built-in Director Mode, Samsung Neo QLED 8K allows users to minimize post-processing to bring the images displayed closer to the way directors intended. From color representation to picture proportion, pictures can express a director's original intention without any distortion.

Business applications

Luxury shop

Executive board room

Financial center

* Images are simulated and for illustration purpose only.

Specifications

Model			QP65A-8K	QP75A-8K	QP85A-8K
Panel	Diagonal Size	Class	65	75	85
		Measured	64.5	74.5	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 *186 mm	214.86 * 214.86 mm	243.75 * 243.75 mm
	Active Display Area		1428.48(H) x 803.52 (V)	1650.1248(H) x 928.1952 (V)	1872(H) X 1053(V)
	Brightness(Typ.)		500nit (HDR 2,000nit)	500nit (HDR 2,000nit)	500nit (HDR 2,000nit)
	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 Hour		16/7	16/7	16/7
	Haze		2%	2%	2%
Display	Dynamic C/R		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 (HDMI4), HDMI 2.0 (HDMI1,2,3)	HDMI 2.1 (HDMI4), HDMI 2.0 (HDMI1,2,3)	HDMI 2.1 (HDMI4), HDMI 2.0 (HDMI1,2,3)
		HDCP	HDCP2.2	HDCP2.2	HDCP2.2
		AUDIO	-	-	-
		USB	USB 2.0 x 3	USB 2.0 x 3	USB 2.0 x 3
	OUTPUT	VIDEO	N/A	N/A	N/A
		AUDIO	Digital Audio Out (Optcal)	Digital Audio Out (Optcal)	Digital Audio Out (Optcal)
		Power Out	N/A	N/A	N/A
		USB	N/A	N/A	N/A
	EXTERNAL CONTROL		RS232C(in) thru stereo jack, RJ45	RS232C(in) thru stereo jack, RJ45	RS232C(in) thru stereo jack, RJ45
	EXTERNAL SENSOR		N/A	N/A	N/A
	Tuner		N/A	N/A	N/A
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
	Power Consumption	Max[W/h]	407	407	489.5
		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
		Off mode	N/A	N/A	N/A
Mechanical Spec	Dimension(mm)	Set	1443.7 x 828.4 x 16.9 (w/o stand)	1668.3 x 955.6 x 17.2 (w/o stand)	1893.4 x 1083.0 x 17.4 (w/o stand)
		Package	1625 x 947 x 195	1872 x 1144 x 196	2114 x 1260 x 220
	Weight (kg)	Set	22.7 (w/o stand)	32.1 (w/o stand)	43.3 (w/o stand)
		Package	43.4	57.5	71.7
	VESA Mount		400 x 300	400 x 400	600 x 400
	Protection Glass		N/A	N/A	N/A
	Bezel Width (Top/Side/Bot) (mm)		4 bezel-less	4 bezel-less	4 bezel-less
Operation	Operating Temperature		0°C~ 40°C	0°C~ 40°C	0°C~ 40°C
	Humidity		10~80%	10~80%	10~80%
Feature	Key		8K Signage Display Built-in MagicInfo S9, SSSP, HDR10+	8K Signage Display Built-in MagicInfo S9, SSSP, HDR10+	8K Signage Display Built-in MagicInfo S9, SSSP, HDR10+
	Orientation		Landscape / Portrait	Landscape / Portrait	Landscape / Portrait
	Special	H/W	Temperature Sensor, Pivot Display, Clock Battery(168hrs 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)		
	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.)		
		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		
		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	60065, 62368-1	60065, 62368-1
	EMC		Class B	Class B	Class B
	Environment		N/A	N/A	N/A
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
		Mount	N/A	N/A	N/A
		Specialty	N/A	N/A	N/A
		Media Player	N/A	N/A	N/A

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Smart Signage

For more information about Samsung Neo QLED 8K Signage, visit www.samsung.com/business or www.samsung.com/displaysolutions

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