	Neo QLED 4K					
	QN8XF (QN80F/QN82F/QN83F)					
	QE100QN8XF	**QE85QN8XF**	**QE75QN8XF**	**QE65QN8XF**	**QE55QN8XF**	**QE50QN8XF**
General Information						
Product Type	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**
Display						
Inch	100	85	75	65	55	50
Cm	252	214	189	163	138	125
Resolution	4K (3,840 x 2,160)	4K (3,840 x 2,160)	4K (3,840 x 2,160)	4K (3,840 x 2,160)	4K (3,840 x 2,160)	4K (3,840 x 2,160)
Refresh Rate	100Hz (Up to 144Hz)	100Hz (Up to 144Hz)	100Hz (Up to 144Hz)	100Hz (Up to 144Hz)	100Hz (Up to 144Hz)	50Hz
Anti Reflection	-	-	-	-	-	-
Video						
Processor	NQ4 AI Gen2 Processor	NQ4 AI Gen2 Processor	NQ4 AI Gen2 Processor	NQ4 AI Gen2 Processor	NQ4 AI Gen2 Processor	NQ4 AI Gen2 Processor
HDR (High Dynamic Range)	Neo Quantum HDR	Neo Quantum HDR	Neo Quantum HDR	Neo Quantum HDR	Neo Quantum HDR	Neo Quantum HDR
HDR10+	Yes (ADAPTIVE/ GAMING)	Yes (ADAPTIVE/ GAMING)	Yes (ADAPTIVE/ GAMING)	Yes (ADAPTIVE/ GAMING)	Yes (ADAPTIVE/ GAMING)	Yes (ADAPTIVE)
Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering	Auto HDR Remastering
HLG (Hybrid Log Gamma)	Yes	Yes	Yes	Yes	Yes	Yes
Contrast	Quantum Matrix Technology Core	Quantum Matrix Technology Core	Quantum Matrix Technology Core	Quantum Matrix Technology Core	Quantum Matrix Technology Core	Quantum Matrix Technology Core
Color	100% Color Volume (QD)	100% Color Volume (QD)	100% Color Volume (QD)	100% Color Volume (QD)	100% Color Volume (QD)	100% Color Volume (QD)
Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	-
Micro Dimming	Supreme UHD Dimming	Supreme UHD Dimming	Supreme UHD Dimming	Supreme UHD Dimming	Supreme UHD Dimming	Supreme UHD Dimming
Contrast Enhancer	Real Depth Enhancer	Real Depth Enhancer	Real Depth Enhancer	Real Depth Enhancer	Real Depth Enhancer	Real Depth Enhancer
Motion Technology	Motion Xcelerator 144Hz	Motion Xcelerator 144Hz	Motion Xcelerator 144Hz	Motion Xcelerator 144Hz	Motion Xcelerator 144Hz	Motion Xcelerator
Film Mode	Yes	Yes	Yes	Yes	Yes	Yes
Adaptive Picture	Optimized/EyeComfort/AI Customization	Optimized/EyeComfort/AI Customization	Optimized/EyeComfort/AI Customization	Optimized/EyeComfort/AI Customization	Optimized/EyeComfort/AI Customization	Optimized/EyeComfort/AI Customization
Picture Upscale	4K AI Upscaling	4K AI Upscaling	4K AI Upscaling	4K AI Upscaling	4K AI Upscaling	4K AI Upscaling
AI Motion Enhancer	-	-	-	-	-	-
Supersize Picture Enhancer	Yes	Yes	-	-	-	-
HDR Brightness Optimizer	Yes	Yes	Yes	Yes	Yes	Yes
Color Booster	Color Booster Pro	Color Booster Pro	Color Booster Pro	Color Booster Pro	Color Booster Pro	Color Booster Pro
Filmmaker Mode	Yes	Yes	Yes	Yes	Yes	Yes

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Audio						
Dolby Atmos	Yes	Yes	Yes	Yes	Yes	Yes
Dolby Decoder	MS12 2CH	MS12 2CH	MS12 2CH	MS12 2CH	MS12 2CH	MS12 2CH
Object Tracking Sound	OTS Lite	OTS Lite	OTS Lite	OTS Lite	OTS Lite	OTS Lite
Q-Symphony	Yes	Yes	Yes	Yes	Yes	Yes
Sound Output (RMS)	30W	30W	30W	30W	30W	30W
Speaker Type	4CH	4CH	4CH	4CH	4CH	4CH
Bluetooth Audio	Yes	Yes	Yes	Yes	Yes	Yes
Active Voice Amplifier	Yes(Active Voice Amplifier Pro)	Yes(Active Voice Amplifier Pro)	Yes(Active Voice Amplifier Pro)	Yes(Active Voice Amplifier Pro)	Yes(Active Voice Amplifier Pro)	Yes(Active Voice Amplifier Pro)
Adaptive Sound	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)	Yes (Adaptive Sound Pro)
Smart Service						
Operating System	Tizen™ Smart TV	Tizen™ Smart TV	Tizen™ Smart TV	Tizen™ Smart TV	Tizen™ Smart TV	Tizen™ Smart TV
Samsung TV Plus	Yes	Yes	Yes	Yes	Yes	Yes
Web Browser	Yes	Yes	Yes	Yes	Yes	Yes
SmartThings Hub / Matter Hub / IoT-Sensor Functionality	Yes	Yes	Yes	Yes	Yes	Yes
VESA Standard						
VESA Spec	600 x 400	600 x 400	400 x 400	400 x 300	200 x 200	200 x 200
Smart Feature						
Multi Device Experience	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View
Multi View	upto 2 videos	upto 2 videos	upto 2 videos	upto 2 videos	upto 2 videos	upto 2 videos
Ambient Mode	-	-	-	-	-	-
Workspace	Yes	Yes	Yes	Yes	Yes	Yes
Apple AirPlay	Yes	Yes	Yes	Yes	Yes	Yes
Game Feature						
Auto Game Mode (ALLM)	Yes	Yes	Yes	Yes	Yes	Yes
Game Motion Plus	Yes	Yes	Yes	Yes	Yes	Yes
VRR	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Black EQ	Yes	Yes	Yes	Yes	Yes	Yes
Surround Sound	Yes	Yes	Yes	Yes	Yes	Yes
Super Ultra Wide Game View	Yes	Yes	Yes	Yes	Yes	Yes
Game bar	Yes	Yes	Yes	Yes	Yes	Yes
MiniMap Zoom	Yes	Yes	Yes	Yes	Yes	Yes
Hue sync	Yes (not supported in Lux)	Yes (not supported in Lux)	Yes (not supported in Lux)	Yes (not supported in Lux)	Yes (not supported in Lux)	Yes (not supported in Lux)
FreeSync	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	-
G-SYNC	-	-	-	-	-	-
HGiG	Yes	Yes	Yes	Yes	Yes	Yes
AI Auto Game Mode	Yes	Yes	Yes	Yes	Yes	Yes

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Feature						
9:16 Screen Support	Yes (Need Auto Rotating Accessory, Compatible Model Only)	Yes (Need Auto Rotating Accessory, Compatible Model Only)	Yes (Need Auto Rotating Accessory, Compatible Model Only)	Yes (Need Auto Rotating Accessory, Compatible Model Only)	Yes (Need Auto Rotating Accessory, Compatible Model Only)	Yes (Need Auto Rotating Accessory, Compatible Model Only)
ConnectShare™	Yes	Yes	Yes	Yes	Yes	Yes
Knox Vault	-	-	-	-	-	-
EPG	Yes	Yes	Yes	Yes	Yes	Yes
Extended PVR/ Time Shift	Yes	Yes	Yes	Yes	Yes	Yes
IP Control	Yes	Yes	Yes	Yes	Yes	Yes
Teletext (TTX)	Yes	Yes	Yes	Yes	Yes	Yes
System						
Digital Broadcasting	DVB-T2CS2	DVB-T2CS2	DVB-T2CS2	DVB-T2CS2	DVB-T2CS2	DVB-T2CS2
Analog Tuner	Yes	Yes	Yes	Yes	Yes	Yes
2 Tuner	-	-	-	-	-	-
CI (Common Interface)	CI+(1.4)	CI+(1.4)	CI+(1.4)	CI+(1.4)	CI+(1.4)	CI+(1.4)
Connectivity						
Wi-Fi	Yes (Wi-Fi 5)	Yes (Wi-Fi 5)	Yes (Wi-Fi 5)	Yes (Wi-Fi 5)	Yes (Wi-Fi 5)	Yes (Wi-Fi 5)
Bluetooth	Yes (BT5.3)	Yes (BT5.3)	Yes (BT5.3)	Yes (BT5.3)	Yes (BT5.3)	Yes (BT5.3)
HDMI	4	4	4	4	4	4
HDMI Maximum Input Rate	4K 144Hz (for HDMI 1/2/3/4)	4K 144Hz (for HDMI 1/2/3/4)	4K 144Hz (for HDMI 1/2/3/4)	4K 144Hz (for HDMI 1/2/3/4)	4K 144Hz (for HDMI 1/2/3/4)	4K 60Hz (for HDMI 1/2/3/4)
HDMI Audio Return Channel	eARC	eARC	eARC	eARC	eARC	eARC
One Connect box	-	-	-	-	-	-
Anynet+ (HDMI-CEC)	Yes	Yes	Yes	Yes	Yes	Yes
USB	2 x USB-A	2 x USB-A	2 x USB-A	2 x USB-A	2 x USB-A	2 x USB-A
Ethernet (LAN)	1	1	1	1	1	1
Audio Out (Mini Jack / LR)	-	-	-	-	-	-
Digital Audio Out (Optical)	1	1	1	1	1	1
RF In (Terrestrial / Cable input / Satellite Input)	1/1(Common Use for Terrestrial)/1	1/1(Common Use for Terrestrial)/1	1/1(Common Use for Terrestrial)/1	1/1(Common Use for Terrestrial)/1	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/1
Ex-Link (RS-232C)	-	-	-	-	-	-
CI Slot	1	1	1	1	1	1

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Design						
Design	Simple Chamfer	Simple Chamfer	Simple Chamfer	Simple Chamfer	Simple Chamfer	Simple Chamfer
Bezel Type	3 Bezel-less	3 Bezel-less	3 Bezel-less	3 Bezel-less	3 Bezel-less	3 Bezel-less
Front Color	Carbon Silver	Carbon Silver	Carbon Silver	Carbon Silver	Carbon Silver	Carbon Silver
Stand Type	Metal Linear	Aero Center	Aero Center	Aero Center	Aero Center	Aero Linear
Stand Color	Titan Black	Titan Gray	Titan Gray	Titan Gray	Titan Gray	Black
Eco						
EU Energy Label	F	F	F	F	F	G
EU Energy Label HDR	G	G	G	G	G	G
Eco Sensor	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Saving	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Off	Yes	Yes	Yes	Yes	Yes	Yes
Power						
Power Consumption (Max) (W)	430	405	335	275	230	195
Power Consumption (Stand-by) (W)	0.50	0.50	0.50	0.50	0.50	0.50
Power Consumption (Typical) (W)	175	155	124	101	76	68
Yearly Power Consumption (EU standard) (kWh)	243	215	172	140	105	94
Power Consumption HDR (W)		404	335	272	217	
Dimension (WxHxD)						
Set Size without Stand (WxHxD)(mm)	2229.8 x 1273.4 x 57.4	1892.8 x 1082.8 x 48.2	1670.6 x 958.3 x 47.1	1446.5 x 829.3 x 46.6	1227.6 x 706.2 x 47.2	1114.2 x 643.6 x 47.8
Set Size with Stand (WxHxD)(mm)	2229.8 x 1332.4 x 415.4	1892.8 x 1137.7 x 366.5	1670.6 x 1015.6 x 331.5	1446.5 x 886.3 x 279.4	1227.6 x 764.0 x 247.4	1114.2 x 699.3 x 238.6
Package Size (WxHxD)(mm)	2399 x 1444 x 230	2056 x 1200 x 178	1822 x 1075 x 169	1593 x 930 x 158	1352 x 813 x 148	1241 x 744 x 142
Stand (Basic)	1722.9 x 415.4	375.4 x 366.5	354.8 x 331.5	314.3 x 279.4	263.9 x 247.4	967.2 x 238.6
Weight						
Set Weight without Stand (kg)	58.9	40.6	32.2	22.7	16.4	12.9
Set Weight with Stand (kg)	60.3	42.2	33.5	23.7	17.2	13.3
Package Weight (kg)	81.7	54.1	45.7	30.8	22.5	17.6
Accessory						
Remote Controller Type	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote
Slim Fit Wall-mount Support	Yes	-	-	-	-	-
Studio Stand Support	-	-	-	Yes	Yes	Yes
Zigbee / Thread Module	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In
SlimFit Cam Support	Yes	Yes	Yes	Yes	Yes	Yes