	Neo QLED 4K						
	QN9XF (QN90F/QN92F/QN93F/QN94F)						
	QE98QN9XF	**QE85QN9XF**	**QE75QN9XF**	**QE65QN9XF**	**QE55QN9XF**	**QE50QN9XF**	**QE43QN9XF**
General Information							
Product Type	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**	**Neo QLED**
Display							
Inch	98	85	75	65	55	50	43
Cm	247	214	189	163	138	125	108
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)	4K (3,840 x 2,160)
Refresh Rate	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)	120Hz (Up to 165Hz)
Anti Reflection	Glare Free	Glare Free	Glare Free	Glare Free	Glare Free	Glare Free	Glare Free
Video							
Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor	NQ4 AI Gen3 Processor
HDR (High Dynamic Range)	Neo Quantum HDR+	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/ GAMING)	Yes (ADAPTIVE/ GAMING)
Auto HDR Remastering	Auto HDR Remastering Pro	Auto HDR Remastering Pro	Auto HDR Remastering Pro	Auto HDR Remastering Pro	Auto HDR Remastering Pro	Auto HDR Remastering Pro	Auto HDR Remastering Pro
HLG (Hybrid Log Gamma)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contrast	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus	Quantum Matrix Technology Plus
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)	100% Color Volume (QD)
Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle	Wide Viewing Angle
Micro Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming	Ultimate UHD Dimming
Contrast Enhancer	Real Depth Enhancer Pro	Real Depth Enhancer Pro	Real Depth Enhancer Pro	Real Depth Enhancer Pro	Real Depth Enhancer Pro	Real Depth Enhancer Pro	Real Depth Enhancer Pro
Motion Technology	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz	Motion Xcelerator 165Hz
Film Mode	Yes	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	Optimized/EyeComfort/AI Customization
Picture Upscale	4K AI Upscaling Pro	4K AI Upscaling Pro	4K AI Upscaling Pro	4K AI Upscaling Pro	4K AI Upscaling Pro	4K AI Upscaling Pro	4K AI Upscaling Pro
AI Motion Enhancer	AI Motion Enhancer Pro	AI Motion Enhancer Pro	AI Motion Enhancer Pro	AI Motion Enhancer Pro	AI Motion Enhancer Pro	AI Motion Enhancer Pro	AI Motion Enhancer Pro
Supersize Picture Enhancer	Yes	Yes	-	-	-	-	-
HDR Brightness Optimizer	Yes	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	Color Booster Pro
Filmmaker Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Audio							
Dolby Atmos	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dolby Decoder	MS12 5.1CH	MS12 5.1CH	MS12 5.1CH	MS12 5.1CH	MS12 5.1CH	MS12 5.1CH	MS12 5.1CH
Object Tracking Sound	OTS+	OTS+	OTS+	OTS+	OTS+	OTS Lite	OTS Lite
Q-Symphony	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sound Output (RMS)	60W	60W	60W	60W	60W	40W	20W
Speaker Type	4.2.2CH	4.2.2CH	4.2.2CH	4.2.2CH	4.2.2CH	2.2CH	2CH
Bluetooth Audio	Yes	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)	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)	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	Tizen™ Smart TV
Samsung TV Plus	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Web Browser	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SmartThings Hub / Matter Hub / IoT-Sensor Functionality	Yes	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	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	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	upto 2 videos
Ambient Mode	-	-	-	-	-	-	-
Workspace	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Apple AirPlay	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Game Feature							
Auto Game Mode (ALLM)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Game Motion Plus	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Black EQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Surround Sound	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Super Ultra Wide Game View	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Game bar	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MiniMap Zoom	Yes	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)	Yes (not supported in Lux)
FreeSync	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro	FreeSync Premium Pro
G-SYNC	-	-	-	-	-	-	-
HGiG	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AI Auto Game Mode	Yes	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)
ConnectShare™	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Knox Vault	-	-	-	-	-	-	-
EPG	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended PVR/ Time Shift	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Teletext (TTX)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System							
Digital Broadcasting	DVB-T2CS2 x 2	DVB-T2CS2 x 2	DVB-T2CS2 x 2	DVB-T2CS2 x 2	DVB-T2CS2 x 2	DVB-T2CS2 x 2	DVB-T2CS2 x 2
Analog Tuner	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2 Tuner	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CI (Common Interface)	CI+(1.4)	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)	Yes (Wi-Fi 5)
Bluetooth	Yes (BT5.3)	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	4
HDMI Maximum Input Rate	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)	4K 165Hz (for HDMI 1/2/3/4)
HDMI Audio Return Channel	eARC	eARC	eARC	eARC	eARC	eARC	eARC
One Connect box	-	-	-	-	-	-	-
Anynet+ (HDMI-CEC)	Yes	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	2 x USB-A
Ethernet (LAN)	1	1	1	1	1	1	1
Audio Out (Mini Jack / LR)	-	-	-	-	-	-	-
Digital Audio Out (Optical)	1	1	1	1	1	1	1
RF In (Terrestrial / Cable input / Satellite Input)	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2	1/1(Common Use for Terrestrial)/2
Ex-Link (RS-232C)	-	-	-	-	-	-	-
CI Slot	1	1	1	1	1	1	1

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Design							
Design	NeoSlim	NeoSlim	NeoSlim	NeoSlim	NeoSlim	NeoSlim	NeoSlim
Bezel Type	3 Bezel-less	4 Bezel-less	4 Bezel-less	4 Bezel-less	4 Bezel-less	3 Bezel-less	3 Bezel-less
Front Color	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black
Stand Type	Sharp Neck Hexagon	Sharp Neck Hexagon	Sharp Neck Hexagon	Sharp Neck Hexagon	Sharp Neck Hexagon	Sharp Neck Hexagon	Sharp Neck Hexagon
Stand Color	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black	Titan Black
Eco							
EU Energy Label	E	E	E	F	F	F	F
EU Energy Label HDR	G	G	G	G	G	G	G
Eco Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Saving	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power							
Power Consumption (Max) (W)	475	390	315	270	235	170	145
Power Consumption (Stand-by) (W)	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Power Consumption (Typical) (W)	152	122	101	89	76	60	50
Yearly Power Consumption (EU standard) (kWh)	211	169	140	123	105	83	69
Power Consumption HDR (W)	317	326	253	231	209	124	102
Dimension (WxHxD)							
Set Size without Stand (WxHxD)(mm)	2185.1 x 1249.3 x 31.1	1892.2 x 1081.9 x 27.9	1670.0 x 957.4 x 27.7	1446.3 x 828.7 x 26.9	1227.4 x 705.6 x 26.9	1113.6 x 644.1 x 26.9	960.8 x 558.9 x 26.9
Set Size with Stand (WxHxD)(mm)	2185.1 x 1305.9 x 364.9	1892.2 x 1143.0 x 321.3	1670.0 x 1017.2 x 301.2	1446.3 x 891.3 x 270.6	1227.4 x 768.2 x 237.0	1113.6 x 705.4 x 220.0	960.8 x 619.9 x 220.0
Package Size (WxHxD)(mm)	2370 x 1420 x 275	2141 x 1245 x 230	1884 x 1118 x 191	1622 x 935 x 185	1448 x 826 x 170	1317 x 767 x 140	1164 x 667 x 140
Stand (Basic)	478.9 x 364.9	417.6 x 321.3	416.9 x 301.2	390.0 x 270.6	388.3 x 237.0	519.0 x 220.0	519.0 x 220.0
Weight							
Set Weight without Stand (kg)	61.4	43.5	34.1	24.2	17.7	13.5	9.4
Set Weight with Stand (kg)	70.6	49.9	39.7	27.5	20.6	17.6	13.4
Package Weight (kg)	92.7	63.3	50.2	34.6	26.2	22.5	16.9
Accessory							
Remote Controller Type	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote	BT SolarCell Remote
Slim Fit Wall-mount Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Studio Stand Support	-	-	-	Yes	Yes	Yes	-
Zigbee / Thread Module	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In
SlimFit Cam Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes