

# Specifications

|         |                      |               |             |  |  |
|---------|----------------------|---------------|-------------|--|--|
|         | Product              | Series        | Screen Size |  |  |
|         | Neo QLED 4K          | 9             | 55"         |  |  |
|         | Refresh Rate         |               |             |  |  |
|         | 120 Hz               |               |             |  |  |
| Product | Neo QLED 4K          |               |             |  |  |
| <hr/>   |                      |               |             |  |  |
| Series  | 9                    |               |             |  |  |
| <hr/>   |                      |               |             |  |  |
| Display | Screen Size          | Refresh Rate  |             |  |  |
|         | 55"                  | 120 Hz        |             |  |  |
|         | Diagonal Screen Size | Resolution    |             |  |  |
|         | 54.6"                | 3,840 x 2,160 |             |  |  |
|         | Anti Reflection      |               |             |  |  |
|         | Yes                  |               |             |  |  |
| <hr/>   |                      |               |             |  |  |
| Video   |                      |               |             |  |  |

|                                                                                                      |                                              |
|------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Product</b><br>Neo Quantum Processor 4K                                                           | <b>One Billion Color</b><br>Yes              |
| <b>HDR (High Dynamic Range)</b><br>Quantum HDR 32x/24x*<br>*QN90B 55"- 85": 32x, QN90B 43"- 50": 24x | <b>AI Upscale</b><br>Yes                     |
| <b>Compatible with HDR 10+</b><br>Certified (HDR10+ Adaptive & HDR10+ GAMING)                        | <b>Contrast</b><br>Quantum Matrix Technology |
| <b>Colour</b><br>100% Colour Volume with Quantum Dot                                                 | <b>Viewing Angle</b><br>Ultra Viewing Angle  |
| <b>Micro Dimming</b><br>Ultimate UHD Dimming                                                         | <b>Film Mode</b><br>Yes                      |
| <b>Motion Technology</b><br>Motion Xcelerator Turbo+                                                 | <b>Clear Motion</b><br>LED Clear Motion      |
| <b>Noise Reduction</b><br>Yes                                                                        | <b>Expert Calibration</b><br>Yes             |
| <b>Smart Calibration</b><br>Basic/Professional                                                       | <b>Filmmaker Mode (FMM)</b><br>Yes           |

## Audio

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Dolby Decoder</b><br>MS12 5.1 CH  | <b>Dolby Atmos</b><br>Yes            |
| <b>Active Voice Amplifier</b><br>Yes | <b>Object Tracking Sound</b><br>OTS+ |
| <b>Q-Symphony</b><br>Yes             | <b>Sound Output (RMS)</b><br>60 W    |
| <b>Speaker Type</b><br>4.2.2 CH      | <b>Woofer</b><br>Yes                 |

**Multiroom Link**

Yes

**Bluetooth Audio**

Yes

**Dual Audio Support (Bluetooth)**

Yes

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**Smart Service****Samsung SMART TV**

Smart

**Operating System**

Tizen™

**Bixby**

US English, UK English, India English, Korean, French, German, Italian, Spanish, BR Portuguese (features vary by language)

**Far-Field Voice Interaction**

Yes

**Multi Voice Assistant**

Yes

**Google Assistant Built-in**

Yes

**Works with Google Assistant**

Yes

**Works With Alexa**

Yes

**TV Plus**

Yes

**SmartThings**

Yes

**Samsung Health**

Yes

**Media Home**

Yes

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**Smart Feature****TV to Mobile - Mirroring**

Yes

**TV Initiate Mirroring**

Yes

**Tap View**

Yes

**Video Communication**

Google Duo

**Multi-View**

up to 2 videos

**Ambient Mode**

Ambient Mode+

**Wireless Dex**

Yes

**Cloud Service**

Microsoft 365

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**Game Feature****Auto Game Mode (ALLM)**  
Yes**Game Motion Plus**  
Yes**Dynamic Black EQ**  
Yes**Surround Sound**  
Yes**Super Ultra Wide Game View**  
Yes**Mini Map Zoom**  
Yes**Freesync**  
FreeSync Premium Pro**HGiG**  
Yes

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**Tuner/Broadcasting****Digital Broadcasting**  
ATSC 3.0**Analog Tuner**  
Yes

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**Connectivity****HDMI**  
4**HDMI (High Frame Rate)**  
4K 120 Hz (for HDMI 1/2/3/4)**USB**  
2**Ethernet (LAN)**  
Yes**Digital Audio Out (Optical)**  
1**RF In (Terrestrial / Cable input /  
Satellite input)**  
1/1(Common Use for Terrestrial)/0**Ex-Link ( RS-232C )**  
1**HDMI A / Return Ch. Support**  
Yes**eARC**  
Yes**HDMI Quick Switch**  
Yes**Wireless LAN Built-in**  
Yes (WiFi 5)**Bluetooth**  
Yes (BT5.2)

|                                     |                                                                                                                                                                                                                                                            |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Design</b>                       | <b>Design</b><br>Boldness                                                                                                                                                                                                                                  | <b>Bezel Type</b><br>4 Bezel-less                                            |
|                                     | <b>Front Colour</b><br>TITAN BLACK                                                                                                                                                                                                                         | <b>Stand Type</b><br>BENDING PLATE                                           |
|                                     | <b>Stand Colour</b><br>SAND BLACK                                                                                                                                                                                                                          |                                                                              |
| <hr/>                               |                                                                                                                                                                                                                                                            |                                                                              |
| <b>Additional Feature</b>           | <b>9:16 Screen Support</b><br>Yes (Need Auto Rotating Accessory,<br>Compatible Model Only)                                                                                                                                                                 | <b>IPv6 Support</b><br>Yes                                                   |
|                                     |                                                                                                                                                                                                                                                            |                                                                              |
| <hr/>                               |                                                                                                                                                                                                                                                            |                                                                              |
| <b>Accessibility</b>                | <b>Accessibility - Voice Guide</b><br>US English                                                                                                                                                                                                           | <b>Accessibility - Learn TV Remote /<br/>Learn Menu Screen</b><br>US English |
|                                     | <b>Accessibility - Others</b><br>Enlurge / High Contrast / Multi-output<br>Audio / SeeColors / Color Inversion /<br>Grayscale / Caption Position / Sign<br>Language Zoom / Slow Button Repeat<br>/ Separate Closed Caption / Graphic<br>Zoom / Picture Off | <b>Sign Language Guide</b><br>Yes                                            |
|                                     | <b>Auto Caption Position</b><br>Yes                                                                                                                                                                                                                        |                                                                              |
| <hr/>                               |                                                                                                                                                                                                                                                            |                                                                              |
| <b>Power &amp; Eco<br/>Solution</b> | <b>Eco Sensor</b><br>Yes                                                                                                                                                                                                                                   | <b>Power Supply</b><br>AC 110-120 V 50/60 Hz                                 |
|                                     | <b>Power Consumption (Max)</b><br>230 W                                                                                                                                                                                                                    | <b>Power Consumption (Stand-by)</b><br>0.5 W                                 |

**Power Consumption (Typical)**

80 W

**Auto Power Off**

Yes

**Auto Power Saving**

Yes

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**Dimension****Package Size (WxHxD)**

1409 x 844 x 177 mm

**Set Size with Stand (WxHxD)**

1227.4 x 768.0 x 235.6 mm

**Set Size without Stand (WxHxD)**

1227.4 x 705.6 x 25.9 mm

**Stand (Basic) (WxD)**

300 x 235.6 mm

**VESA Spec**

200 x 200 mm

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**Weight****Package Weight**

28.0 kg

**Set Weight with Stand**

21.9 kg

**Set Weight without Stand**

17.7 kg

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**Accessory****Remote Controller Model**

TM2280E

**Samsung Smart Control**

Yes

**Slim Fit Wall-mount support**

Yes

**Optional Stand Support (Y20 Studio)**

Yes

**Mini Wall Mount Support**

Yes

**Vesa Wall Mount Support**

Yes

**Auto-Rotation Accessory Support**

Yes

**Full Motion Slim Wall Mount (Y22)**

Yes

**User Manual**

Yes

**Webcam Support**

Yes

**E-Manual**

Yes

**Power Cable**

Yes

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