

# Specifications

|              |                          |                          |              |
|--------------|--------------------------|--------------------------|--------------|
|              | Series                   | Resolution               | Connectivity |
|              | 9                        | 4K (3,840 x 2,160)       | 4            |
|              |                          |                          |              |
|              | AI Upscale               |                          |              |
|              | 4K AI Upscaling          |                          |              |
|              |                          |                          |              |
| Product Type | Neo QLED                 |                          |              |
|              |                          |                          |              |
| Series       | 9                        |                          |              |
|              |                          |                          |              |
| Display      | Screen Size              | Refresh Rate             |              |
|              | 50"                      | 120Hz (Up to 144Hz)      |              |
|              | Diagonal Screen Size     | Resolution               |              |
|              | 49.5"                    | 4K (3,840 x 2,160)       |              |
|              | Anti Reflection          |                          |              |
|              | Yes                      |                          |              |
|              |                          |                          |              |
| Video        | Picture Engine           | HDR (High Dynamic Range) |              |
|              | NQ4 AI Gen2 Processor    | Neo Quantum HDR          |              |
|              | AI Upscale               | Compatible with HDR 10+  |              |
|              | 4K AI Upscaling          | Yes (ADAPTIVE/ GAMING)   |              |
|              | Contrast                 | Colour                   |              |
|              | Quantum MatrixTechnology | 100% Color Volume        |              |
|              | Viewing Angle            | Micro Dimming            |              |
|              | Wide Viewing Angle       | Ultimate UHD Dimming     |              |
|              | Film Mode                | Motion Technology        |              |
|              | Yes                      | Motion Xcelerator 144Hz  |              |

**Expert Calibration**  
Yes

**Smart Calibration**  
Basic/Professional

**Filmmaker Mode (FMM)**  
Yes

**AI HDR Remastering**  
Auto HDR Remastering

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## Audio

**Dolby Atmos**  
Yes

**Active Voice Amplifier**  
Yes

**Object Tracking Sound**  
OTS Lite

**Q-Symphony**  
Yes

**Sound Output (RMS)**  
40W

**Speaker Type**  
2.2CH

**Bluetooth Audio**  
Yes

**Buds Auto Switch**  
Yes

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## Smart Service

**Operating System**  
Tizen™ Smart TV

**Bixby**  
Yes

**Far-Field Voice Interaction**  
Yes

**Built-in Voice Assistant**  
Alexa

**Samsung TV Plus**  
Yes

**Works with AI Speaker**  
Alexa, Google Assistant

**SmartThings Hub / Matter Hub / IoT-Sensor  
Funtionality**  
Yes

**Samsung Health**  
Yes

**Universal Guide**  
Yes

**Media Home**  
Yes

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## Smart Feature

**Multi Device Experience**  
TV to Mobile, Mobile to TV, TV initiate mirroring, Sound  
Mirroring, Tap View, Wireless TV On

**Multi-View**  
upto 2 videos

**Ambient Mode**  
Ambient Mode+

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

Gaming Hub

Yes (KR, US, CA, BR, GB, FR, DE, IT, ES, MX, AU)

Tuner/Broadcasting

Digital Broadcasting

ATSC/ClearQAM

Analog Tuner

Yes

Connectivity

HDMI

4

USB

2 x USB-A

HDMI (High Frame Rate)

4K 144Hz (for HDMI 1/2/3/4)

Ethernet (LAN)

1

Digital Audio Out (Optical)

1

RF In (Terrestrial / Cable input / Satellite input)

1/1(Common Use for Terrestrial)/0

Ex-Link ( RS-232C )

1

Wi-Fi

Yes (WiFi5)

Bluetooth

Yes (BT5.2)

HDMI Audio Return Channel

eARC

Design

Design

Neo Slim

Bezel Type

3 Bezel-less

Front Colour

GRAPHITE BLACK

Stand

SHARP NECK HEXAGON

Stand Colour

TITAN BLACK

|                      |                                                                                                                                                                                                                              |                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional Feature   | <b>9:16 Screen Support</b><br>Yes (Need Auto Rotating Accessory, Compatible Model Only)                                                                                                                                      | <b>ConnectShare™</b><br>Yes                                                                                                                                                                        |
|                      |                                                                                                                                                                                                                              |                                                                                                                                                                                                    |
| Accessibility        | <b>Accessibility - Voice Guide</b><br>US English, Mexico Spanish, Canada French, Finnish, German, Greek, Hungarian, Italian, Norwegian, Polish, Portugal Portuguese, Romanian, Slovak, Swedish, Czech, Danish, Dutch, Korean | <b>Low Vision Support</b><br>Audio Subtitles (AU,KR,UK,US Only), Relumino, Magnification, Audio Description, Zoom Menu and Text, High Contrast, SeeColors, Color Inversion, Grayscale, Picture Off |
|                      | <b>Hearing Impaired Support</b><br>Closed Caption (Subtitle), Multi-output Audio, Caption Position, Sign Language Zoom, Separate Closed Caption, Sign Language Guide, Auto Caption Position                                  | <b>Motor Impaired Support</b><br>Slow Button Repeat, Remote Control App. for All                                                                                                                   |
| Power & Eco Solution | <b>Eco Sensor</b><br>Yes                                                                                                                                                                                                     | <b>Power Supply</b><br>AC110-120V~ 50/60Hz                                                                                                                                                         |
|                      | <b>Power Consumption (Max)</b><br>170 W                                                                                                                                                                                      | <b>Power Consumption (Stand-by)</b><br>0.5 W                                                                                                                                                       |
|                      | <b>Power Consumption (Typical)</b><br>57 W                                                                                                                                                                                   | <b>Auto Power Off</b><br>Yes                                                                                                                                                                       |
|                      | <b>Auto Power Saving</b><br>Yes                                                                                                                                                                                              |                                                                                                                                                                                                    |
| Dimension            | <b>Package Size (WxHxD)</b><br>1317 x 767 x 140 mm                                                                                                                                                                           | <b>Set Size with Stand (WxHxD)</b><br>1113.6 x 705.4 x 220.0 mm                                                                                                                                    |
|                      | <b>Set Size without Stand (WxHxD)</b><br>1113.6 x 644.1 x 26.9 mm                                                                                                                                                            | <b>Stand (Basic) (WxD)</b><br>519.0 x 220.0 mm                                                                                                                                                     |
|                      | <b>VESA Spec</b><br>200 x 200 mm                                                                                                                                                                                             |                                                                                                                                                                                                    |
| Weight               | <b>Package Weight</b><br>22.5 kg                                                                                                                                                                                             | <b>Set Weight with Stand</b><br>17.6 kg                                                                                                                                                            |
|                      | <b>Set Weight without Stand</b><br>13.5 kg                                                                                                                                                                                   |                                                                                                                                                                                                    |

Accessory

|                                                            |                                          |
|------------------------------------------------------------|------------------------------------------|
| <b>Remote Controller Model</b><br>TM2360E                  | <b>Slim Wall Mount Compatible</b><br>Yes |
| <b>Optional Stand Compatible (Studio)</b><br>Yes           | <b>Mini Wall Mount Compatible</b><br>Yes |
| <b>Auto-Rotation Accessory Compatible</b><br>Yes           | <b>User Manual</b><br>Yes                |
| <b>Full Motion Slim Wall Mount Compatible (Y22)</b><br>Yes | <b>SlimFit Cam Compatible</b><br>Yes     |
| <b>Zigbee / Thread Module</b><br>Built-In                  | <b>Power Cable</b><br>Yes                |

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