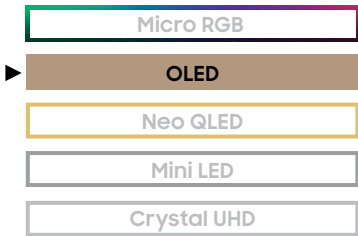




CLASS HIERARCHY



Samsung Vision AI

UP TO 165Hz*



SIZE CLASS

83"	QN83S90HDEXZA
77"	QN77S90HDEXZA
65"	QN65S90HDEXZA
55"	QN55S90HDEXZA
48"	QN48S90HDEXZA
42"	QN42S90HDEXZA



Level up your OLED experience and leave distracting reflections behind with Glare Free technology. Self-illuminating pixels deliver precise contrast and color. Video games look ultra-smooth with the Ultimate Gaming Pack, made better with our AI-powered processor for more depth and detail¹.

TOP 10 KEY FEATURES

- | | |
|-------------------------------|--|
| 1. OLED HDR+ with Glare Free² | 6. Auto HDR Remastering Pro |
| 2. NQ4 AI Gen3 Processor³ | 7. AI Sound Controller Pro⁵ |
| 3. Ultimate Gaming Pack⁴ | 8. Dolby Atmos and Object Tracking Sound Lite |
| 4. 4K AI Upscaling Pro³ | 9. Active Voice Amplifier Pro and Adaptive Sound Pro |
| 5. AI Motion Enhancer Pro⁶ | 10. AI Customization Mode⁸ |

PICTURE (PANEL)

Display Type: OLED
Refresh Rate: 165Hz (VRR Support)
Lighting Technology: Self-illuminating pixels
Display Resolution: 4K (3,840 x 2,160)
Anti Reflection: Glare Free
Viewing Angle: Ultra Viewing Angle
Dimming Technology: N/A

PICTURE (PROCESSING)

Processor: NQ4 AI Gen3 Processor⁶
Upscaling: 4K AI Upscaling Pro⁶
Variable Refresh Rate (VRR): Yes
Motion Handling: Motion Xcelerator 165Hz⁷
DLG (Dual Line Gate): N/A
Contrast Enhancer: Real Depth Enhancer
Contrast Booster: Yes
AI Motion Enhancer: Pro⁶
Color: Perceptual Color Mapping
Color Booster: Pro⁶
HDR (High Dynamic Range): 83"- 55": OLED HDR+ 48"- 42": OLED HDR
HDR10+: Yes (Adaptive/Gaming/Advanced)
Auto HDR Remastering: Yes
Adaptive Picture: AI Optimized / AI Customization
Supersize Picture Enhancer: N/A

AUDIO

Speaker Type: 83"-48": 2.1CH 42": 2CH
Output Power (W): 83"-48": 40W 42": 20W
Dolby Atmos: Yes
Object Tracking Sound (OTS): OTS Lite
Q-Symphony: Yes⁹
Active Voice Amplifier (AVA): AVA Pro⁶
Adaptive Sound: Pro⁶
Bluetooth Audio: Yes
360 Audio: Yes

DESIGN

TV Design: LaserSlim
Bezel Type: 4 Bezel-less
Front Color: Graphite Black
Stand Type: 83" - 48": Simple Plus Blade 42": Simple Blade
Stand Color: 83"- 48": Space Titan 42": Black
Adjustable Stand: 83"-48": N/A 42": Yes

CONNECTIVITY

Wi-Fi: Yes (Wi-Fi 7)
Bluetooth: Yes (BT5.3)
One Connect Box: N/A
HDMI Inputs: 4 Ports⁹
HDMI Maximum Input Rate: 4K 165Hz (for HDMI 1/2/3/4)
HDMI Audio Return Channel: eARC
HDMI-CEC: Yes
USB Ports: 3 x USB-A
Ethernet (LAN): Yes
Digital Audio Out (Optical): Yes
RF Connection: Yes
RS-232C Input: Yes

Samsung Vision AI

Vision AI Companion: Yes¹¹,⁶
AI Soccer Mode: Pro¹²
AI Sound Controller: Pro⁵
Live Translate: Yes
Generative Wallpaper: N/A
Multi AI Agents (Copilot & Perplexity): Yes
Pet & Family Care: Yes
Home Insight: Yes:

TV ART FEATURES

Art Mode: N/A
Art Store: N/A¹³

SMART TV FEATURES¹⁴

Operating System: One UI Tizen
Free Ad Support TV: Samsung TV Plus
Smart Home Connectivity¹⁵: SmartThings, Matter, IoT-Sensor Functionality, Quick Remote
Smart Assistants (Built-In): Bixby, Alexa
Smart Assistants (Works with): Google Assistant
Far-Field Voice Interactions: Yes
Web Browser: Yes
Samsung Health: Yes¹⁶
Multi Device Experience: Mobile to TV, TV initiates mirroring, Sound Mirroring, Wireless TV On
Multi-View: Up to 2 videos
Buds Auto Switch: Yes
Works with Apple Airplay: Yes
Works with Google Cast: Yes
Daily+: Yes
Now Brief: Yes Voice/User Detection
Workout Tracker: Yes
Karaoke Mic: Yes¹⁷
Multi-Control: Yes
Storage Share: Yes

GAMING

Gaming Hub: Yes¹⁸
Cloud Gaming: Yes - Xbox, NVIDIA GeForce Now, Luna, Blacknut, Antstream, Boosteroid
Auto Game Mode: AI Auto Game Mode
ALLM (Auto Low Latency Mode): Yes
Game Motion Plus: Yes
Super Ultra Wide Game View: Yes¹⁹
Game Bar: Yes
Mini Map Zoom: Yes
AMD FreeSync: 83"- 48": Freesync Premium™ Pro 42": Freesync Premium™
NVIDA G-SYNC: Yes
HGiG: Yes
Hue Sync: Yes

SECURITY

Knox Vault: N/A
Knox Security: Yes

POWER

Power Supply (V): AC110-120V ~ 50/60Hz
Stand-by Power Consumption (W): 0.5
Eco Sensor: Yes
Auto Power Saving: Yes
Auto Power Off: Yes

INCLUDED ACCESSORIES

Remote Control: BT SolarCell™ Remote TM2660H
Power Cable: Yes
Slim Fit Wall-mount Support: Yes

MODELS

MODEL: QN83S90HD ORDER CODE: QN83S90HDEXZA
SCREEN SIZE CLASS: 83"
SCREEN DIAGONAL MEASUREMENT: 82.5"
UPC CODE: 198957269073
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 72.9 x 41.8 x 1.8 - TV with Stand (Lowest): 72.9 x 44.6 x 14.1 - TV with Stand (Highest): N/A - Distance between stand (Default): N/A - Distance between stand (Minimum): N/A - Shipping: 79.7 x 48.6 x 7.4 - Stand Footprint: 14.4 x 12.8 x 14.1
WEIGHT (LB): - TV without Stand: 82.9 - TV with Stand: 86.9 - Shipping: 109.8
VESA SUPPORT: (400 X 300)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

MODEL: QN65S90HD ORDER CODE: QN65S90HDEXZA
SCREEN SIZE CLASS: 65"
SCREEN DIAGONAL MEASUREMENT: 64.5"
UPC CODE: 198957270680
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 56.9 x 32.7 x 1.6 - TV with Stand (Lowest): 56.9 x 35.3 x 10.4 - TV with Stand (Highest): N/A - Distance between stand (Default): N/A - Distance between stand (Minimum): N/A - Shipping: 63.7 x 37.4 x 6.3 - Stand Footprint: 14.4 x 11.8 x 10.4
WEIGHT (LB): - TV without Stand: 42.1 - TV with Stand: 45 - Shipping: 61.7
VESA SUPPORT: YES (300 X 200)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

MODEL: QN77S90HD ORDER CODE: QN77S90HDEXZA
SCREEN SIZE CLASS: 77"
SCREEN DIAGONAL MEASUREMENT: 76.6"
UPC CODE: 198957270819
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 67.7 x 38.9 x 1.8 - TV with Stand (Lowest): 67.7 x 41.7 x 14.1 - TV with Stand (Highest): N/A - Distance between stand (Default): N/A - Distance between stand (Minimum): N/A - Shipping: 74.2 x 45.4 x 7.1 - Stand Footprint: 14.4 x 12.8 x 14.1
WEIGHT (LB): - TV without Stand: 71.4 - TV with Stand: 75.4 - Shipping: 103.2
VESA SUPPORT: YES (400 X 300)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

MODEL: QN55S90HD ORDER CODE: QN55S90HDEXZA
SCREEN SIZE CLASS: 55"
SCREEN DIAGONAL MEASUREMENT: 54.6"
UPC CODE: 198957270673
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 48.2 x 27.9 x 1.6 - TV with Stand (Lowest): 48.2 x 30.5 x 10.4 - TV with Stand (Highest): N/A - Distance between stand (Default): N/A - Distance between stand (Minimum): N/A - Shipping: 54.5 x 32.8 x 6 - Stand Footprint: 14.4 x 11.8 x 10.4
WEIGHT (LB): - TV without Stand: 32.2 - TV with Stand: 35.1 - Shipping: 47.2
VESA SUPPORT: YES (300 X 200)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

MODELS

MODEL: QN48S90HD ORDER CODE: QN48S90HDEXZA
SCREEN SIZE CLASS: 48"
SCREEN DIAGONAL MEASUREMENT: 47.5"
UPC CODE: 198957268977
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 42.1 x 24.4 x 1.6 - TV with Stand (Lowest): 42.1 x 27 x 10.4 - TV with Stand (Highest): N/A - Distance between stand (Default): N/A - Distance between stand (Minimum): N/A - Shipping: 47.3 x 29.4 x 5.6 - Stand Footprint: 14.4 x 11.8 x 10.4
WEIGHT (LB): - TV without Stand: 23.4 - TV with Stand: 26.2 - Shipping: 36.4
VESA SUPPORT: (300 X 200)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BBT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

MODEL: QN42S90HD ORDER CODE: QN42S90HDEXZA
SCREEN SIZE CLASS: 42"
SCREEN DIAGONAL MEASUREMENT: 41.5"
UPC CODE: 198957268960
COUNTRY OF ORIGIN: MEXICO
DIMENSIONS (INCHES W X H X D): - TV without Stand: 36.8 x 21.4 x 1.6 - TV with Stand (Lowest): 36.8 x 23.9 x 8.1 - TV with Stand (Highest): N/A - Distance between stand (Default): 25.7" - Distance between stand (Minimum): N/A - Shipping: 41.4 x 25.9 x 5.2 - Stand Footprint: 1.3 x 7.7 x 8.1
WEIGHT (LB): - TV without Stand: 18.3 - TV with Stand: 19.2 - Shipping: 26
VESA SUPPORT: YES (200 X 200)
ACCESSORIES INCLUDED IN BOX: - Remote Model: BT SolarCell™ Remote TM2660H - Power Cable - User Manual
WARRANTY: CLICK HERE

¹4K 165Hz is only available with PC-connected games that support such specifications (PC graphic card required). Performance may vary.

²As compared to Samsung OLED S85H.

³42" & 48" have OLED HDR and Glare Free.

⁴Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.

⁵42" S90H features FreeSync Premium 4K 165Hz is only available with PC-connected games that support such specifications (PC graphic card required). Performance and viewing experience may vary according to types of content and graphics processing unit.

⁶Feature availability varies by input source/app. Utilizes AI-based formulas; results vary. Samsung account and internet access required.

⁷Utilizes AI-Based formulas.

⁸4K 165Hz is only available with PC-connected games that support such specifications (PC graphic card required). Performance may vary.

⁹Q-Symphony requires a compatible 2020-2026 Samsung TV. Please refer to [samsung.com](#) for more information.

¹⁰HDMI-CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.

¹¹Samsung Vision AI features vary by model; see individual model for more info.

¹²All inputs and queries may be recorded and shared with 3rd party providers. Requires Samsung account and consent to Viewing Information Service; must be 18 years or older. Accuracy not guaranteed. Check results.

¹³AI Soccer Mode must be turned on in settings. Utilizes AI-based formulas.

¹⁴Fees apply to subscription service.

¹⁵Samsung Account required for network-based smart services, including streaming apps and other smart features. Separate [connected] computer, mobile or other device may be necessary to create/log into Samsung Account (free to download and create). Without Account login, only external device connections (e.g., via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) available.

¹⁶SmartThings require compatible devices only. SmartThings app download may be required.

¹⁷Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

¹⁸Requires SmartThings app to be installed on the mobile device and connected via the same Wi-Fi network as the TV set. Mobile mic is compatible only with Galaxy S23 or later models and iPhone 15 & above. You must download the Karaoke app from Tizen to use the Karaoke function. An additional paid subscription is required for this service after 6 months of free use. (Users can access 5 songs per day for free without a subscription.)

¹⁹High speed internet connection, additional gaming service subscriptions and compatible controller required.

²⁰Super Ultrawide Game View is supported for PC games only. This is feature is only available for ultra wide supported games. Some game titles may not support this function or may be limited to use this feature. Screen resolution change from external device may be required.