

**SAMSUNG**

**2024 Series QN90D TV**



# SAMSUNG

# 2024 Series QN90D TV

| General                             | Neo QLED 4K                  | Neo QLED 4K                  | Neo QLED 4K                  | Neo QLED 4K                  | Neo QLED 4K                  | Neo QLED 4K                  | Neo QLED 4K                  |
|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Screen Size                         | 98                           | 85                           | 75                           | 65                           | 55                           | 50                           | 43                           |
| Screen diagonal in cm               | 247                          | 214                          | 189                          | 163                          | 138                          | 125                          | 108                          |
| Serie                               | QN90D                        | QN90D                        | QN90D                        | QN90D                        | QN90D                        | QN90D                        | QN90D                        |
| Modellcode                          | QE98QN90DATX<br>XN           | QE85QN90DATX<br>XN           | QE75QN90DATX<br>XN           | QE65QN90DATX<br>XN           | QE55QN90DATX<br>XN           | QE50QN90DATX<br>XN           | QE43QN90DATX<br>XN           |
| EAN                                 | 8806095482262                | 8806095482248                | 8806095481920                | 8806095481906                | 8806095482200                | 8806095481883                | 8806095481876                |
| UVP/RRP CHF                         | 13999                        | 5599                         | 4299                         | 2999                         | 2299                         | 1899                         | 1599                         |
| <b>Dimensions (W x H x D in mm)</b> |                              |                              |                              |                              |                              |                              |                              |
| Set Size with Stand                 | 2185.1 x 1305.9 x<br>364.9   | 1892.2 x 1143.0 x<br>321.3   | 1670.0 x 1017.2 x<br>301.2   | 1446.3 x 891.3 x<br>270.6    | 1227.4 x 768.2 x<br>237.0    | 1113.6 x 705.4 x<br>220.0    | 960.8 x 619.9 x<br>220.0     |
| Set Size without Stand              | 2185.1 x 1249.3 x<br>31.1    | 1892.2 x 1081.9 x<br>27.9    | 1670.0 x 957.4 x<br>27.7     | 1446.3 x 828.7 x<br>26.9     | 1227.4 x 705.6 x<br>26.9     | 1113.6 x 644.1 x<br>26.9     | 960.8 x 558.9 x<br>26.9      |
| Package Size                        | 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) (WxD)                 | 478.9 x 364.9                | 417.6 x 321.3                | 416.9 x 301.2                | 390 x 270.6                  | 388.3 x 237.0                | 519.0 x 220.0                | 519.0 x 220                  |
| VESA Spec                           | 600 x 400                    | 600 x 400                    | 400 x 400                    | 400 x 300                    | 200 x 200                    | 200 x 200                    | 200 x 200                    |
| <b>Weight (kg)</b>                  |                              |                              |                              |                              |                              |                              |                              |
| Set Weight with Stand               | 70.6                         | 49.9                         | 39.7                         | 27.5                         | 20.6                         | 17.6                         | 13.4                         |
| Set Weight without Stand            | 61.4                         | 43.5                         | 34.1                         | 24.2                         | 17.7                         | 13.5                         | 9.4                          |
| Package Weight                      | 92.7                         | 63.3                         | 50.2                         | 35.4                         | 26.2                         | 22.5                         | 17.5                         |
| <b>Energy</b>                       |                              |                              |                              |                              |                              |                              |                              |
| Energy Efficiency Class             | E                            | E                            | E                            | F                            | F                            | F                            | F                            |
| Power Consumption (Max) (W)         | 435                          | 375                          | 300                          | 285                          | 225                          | 175                          | 145                          |
| Power Consumption (Stand-by)        | 0.50                         | 0.50                         | 0.50                         | 0.50                         | 0.50                         | 0.50                         | 0.50                         |
| <b>Picture</b>                      |                              |                              |                              |                              |                              |                              |                              |
| Resolution                          | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        | 4K (3,840 x<br>2,160)        |
| Refresh Rate                        | 100Hz                        | 100Hz (Up to<br>144Hz)       | 100Hz (Up to<br>144Hz)       | 100Hz (Up to<br>144Hz)       | 100Hz (Up to<br>144Hz)       | 100Hz (Up to<br>144Hz)       | 100Hz (Up to<br>144Hz)       |
| Color                               | 100% Color<br>Volume         | 100% Color<br>Volume         | 100% Color<br>Volume         | 100% Color<br>Volume         | 100% Color<br>Volume         | 100% Color<br>Volume         | 100% Color<br>Volume         |
| Picture Engine                      | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     | NQ4 AI Gen2<br>Processor     |
| HDR (High Dynamic Range)            | Neo Quantum<br>HDR+          | Neo Quantum<br>HDR+          | Neo Quantum<br>HDR+          | Neo Quantum<br>HDR+          | Neo Quantum<br>HDR+          | Neo Quantum<br>HDR           | Neo Quantum<br>HDR           |
| HLG (Hybrid Log Gamma)              | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Motion Technology                   | Motion<br>Xcelerator 120Hz   | Motion<br>Xcelerator 144Hz   | Motion<br>Xcelerator 144Hz   | Motion<br>Xcelerator 144Hz   | Motion<br>Xcelerator 144Hz   | Motion<br>Xcelerator 144Hz   | Motion<br>Xcelerator 144Hz   |
| Contrast                            | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology | Quantum Matrix<br>Technology |
| Anti Reflection                     | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Viewing Angle                       | Wide Viewing<br>Angle        | Ultra Viewing<br>Angle       | Ultra Viewing<br>Angle       | Ultra Viewing<br>Angle       | Ultra Viewing<br>Angle       | Wide Viewing<br>Angle        | Wide Viewing<br>Angle        |
| Micro Dimming                       | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      | Ultimate UHD<br>Dimming      |
| Contrast Enhancer                   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   | Real Depth<br>Enhancer Pro   |
| Expert Calibration                  | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Smart Calibration                   | Basic/Profession<br>al       | Basic/Profession<br>al       | Basic/Profession<br>al       | Basic/Profession<br>al       | Basic/Profession<br>al       | Basic/Profession<br>al       | Basic/Profession<br>al       |
| Picture Upscale                     | 4K AI Upscaling              | 4K AI Upscaling              | 4K AI Upscaling              | 4K AI Upscaling              | 4K AI Upscaling              | 4K AI Upscaling              | 4K AI Upscaling              |
| <b>Audio</b>                        |                              |                              |                              |                              |                              |                              |                              |
| Dolby Atmos                         | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Object Tracking Sound               | OTS+                         | OTS+                         | OTS+                         | OTS+                         | OTS+                         | OTS Lite                     | OTS Lite                     |
| Q-Symphony                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Active Voice Amplifier Pro          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          | Yes                          |
| Adaptive Sound                      | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        | Adaptive Sound<br>Pro        |
| 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                          |
| Main Speaker Output (W)             | 7W+7W                        | 7W+7W                        | 7W+7W                        | 7W+7W                        | 7W+7W                        | 10W+10W                      | 10W+10W                      |

|                             |         |         |         |         |         |         |     |
|-----------------------------|---------|---------|---------|---------|---------|---------|-----|
| Woofers Speaker Output (W)  | 10W+10W | 10W+10W | 10W+10W | 10W+10W | 10W+10W | 10W+10W | -   |
| Tweeters Speaker Output (W) | 7W+7W   | 7W+7W   | 7W+7W   | 7W+7W   | 7W+7W   | -       | -   |
| Bluetooth Audio             | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes |

### Smart Service

|               |     |     |     |     |     |     |     |
|---------------|-----|-----|-----|-----|-----|-----|-----|
| Smart TV Type | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TV Plus       | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

### Smart Features

|                        |               |               |               |               |               |               |               |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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           | Ambient Mode+ | Ambient Mode+ | Ambient Mode+ | Ambient Mode+ | Ambient Mode+ | Ambient Mode+ | Ambient Mode+ |
| Mobile to TV Mirroring | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |

### Connectivity

|                                     |               |               |               |               |               |               |               |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| HDMI Port Qty                       | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| USB Port Qty                        | 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     |
| eArc                                | eARC          | eARC          | eARC          | eARC          | eARC          | eARC          | eARC          |
| EPG                                 | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |
| Picture-In-Picture   BT HID Support | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |
| USB HID Support   Teletext (TTX)    | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |
| Time Shift                          | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |
| WiFi                                | 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 (BT5.2)   | Yes (BT5.2)   | Yes (BT5.2)   | Yes (BT5.2)   | Yes (BT5.2)   | Yes (BT5.2)   | Yes (BT5.2)   |
| CI Slot                             | CI+(1.4)      | CI+(1.4)      | CI+(1.4)      | CI+(1.4)      | CI+(1.4)      | CI+(1.4)      | CI+(1.4)      |
| 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)               | 1             | 1             | 1             | 1             | 1             | 1             | 1             |

### Game Feature

|                                  |                      |                      |                      |                      |                      |                      |                      |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| HDMI (High Frame Rate; HDMI 2.1) | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  |
| Auto Game Mode (ALLM)            | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  | Yes                  |
| Game Motion Plus                 | 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                  |
| FreeSync                         | FreeSync Premium Pro | FreeSync Premium Pro | FreeSync Premium Pro | FreeSync Premium Pro | FreeSync Premium Pro | FreeSync Premium Pro | FreeSync Premium Pro |

### Design

|              |                    |                    |                    |                    |                    |                    |                    |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Design       | Neo Slim           | Neo Slim           | Neo Slim           | Neo Slim           | Neo Slim           | Neo Slim           | Neo Slim           |
| Design 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        |

### In-Box

|                           |                     |                     |                     |                     |                     |                     |                     |
|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| User Manual   Power Cable | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| One Connect Box           | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| Remote Control            | BT SolarCell Remote | BT SolarCell Remote | BT SolarCell Remote | BT SolarCell Remote | BT SolarCell Remote | BT SolarCell Remote | BT SolarCell Remote |

### Optional Accessory

|                                |                     |                     |                     |                     |                     |                     |                     |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Slim Fit Wall-Mount            | -                   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Auto Rotating Wall-Mount       | -                   | -                   | -                   | Yes                 | Yes                 | Yes                 | Yes                 |
| Auto Rotating Studio Stand     | -                   | -                   | -                   | -                   | Yes                 | Yes                 | Yes                 |
| Studio Stand                   | -                   | -                   | -                   | Yes                 | Yes                 | -                   | -                   |
| <b>Soundbar: perfect-match</b> | HW-Q990D / HW-S800D | HW-Q990D / HW-S800D | HW-Q930D / HW-S800D | HW-Q700D / HW-S700D | HW-Q700D / HW-S700D | HW-Q600C / HW-S700D | HW-Q600C / HW-S700D |

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