SAMSUNG

Samsung QN90D QE55QN90DATXXN TV 139.7 cm (55") 4K Ultra HD Smart TV Wi-Fi Black, Titanium

Brand : Samsung

Product family: QN90D

Product code:
QE55QN90DATXXN

Product name :
QE55QN90DATXXN

Samsung QN90D QE55QN90DATXXN. Display diagonal: 139.7 cm (55"), Display resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: Neo QLED, Screen shape: Flat, LED backlighting type: Mini LED. Smart TV. Motion interpolation technology: Motion Xcelerator, Native aspect ratio: 16:9. Digital signal format system: DVB-C, DVB-S2, DVB-T2. Wi-Fi, Ethernet LAN. Product colour: Black, Titanium

Display	
Display diagonal *	139.7 cm (55")
HD type *	4K Ultra HD
Display technology *	Neo QLED
LED backlight	✓
LED backlighting type	Mini LED
Screen shape *	Flat
Native aspect ratio *	16:9
Motion interpolation technology *	Motion Xcelerator
Native refresh rate	100 Hz
Display refresh rates supported	144 Hz
Dynamic contrast ratio marketing name	Quantum Matrix Technology
Display resolution *	3840 x 2160 pixels
Display diagonal (metric)	138 cm
Anti-glare screen	✓

TV tuner	
Tuner type *	Analog & digital
Digital signal format system *	DVB-C, DVB-S2, DVB-T2

Smart TV	
Smart TV *	✓
Internet TV *	✓
Operating system installed *	Tizen
Timeshift	✓
Screen mirroring	✓
Sound mirroring	✓
Hybrid Broadcast Broadband TV (HbbTV)	✓
Hybrid Broadcast Broadband TV (HbbTV) version	2.0.3
TV initiate mirroring	✓
Universal guide	✓
Video apps	Samsung TV Plus

Audio	
RMS rated power *	60 W
Audio output channels	4.2.2 channels

Performance	
High Dynamic Range (HDR) supported *	✓
AMD FreeSync	✓
AMD FreeSync type	FreeSync Premium Pro
Game features	Auto Low Latency Mode (ALLM), Dynamic Black EQ, Game Motion Plus, Gaming Hub, HGiG, Mini Map Zoom, Super Ultra Wide Game View, Surround Sound, Variable Refresh Rate (VRR)
4K Ultra HD upscaling	✓
SmartThings app support	✓
Tap view	✓
Adaptive picture	✓
Multi View	✓
TV sound to mobile device	✓
USB recording	✓
ConnectShare (HDD)	✓
ConnectShare (USB)	✓

Ports & interfaces	
Audio Return Channel (ARC)	✓
PC in (D-Sub) *	✗
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	2
Digital audio optical out	1
RF ports quantity	2
RF connector type	F, IEC
Common interface Plus (CI+) *	✓
Common interface Plus (CI+) version	1.4
HDMI ports quantity *	4
Consumer Electronics Control (CEC)	Anynet+
AC (power) in	✓

Management features	
Voice control	✓
Electronic Programme Guide (EPG)	✓
On Screen Display (OSD)	✓

Audio

Audio decoders	Dolby Atmos
Audio pre-selection descriptor	✓
Music wall	✓
Active voice amplifier (AVA)	✓
Adaptive sound+	✓
Multiroom	✓
Multiroom audio technology	Samsung Multiroom Link
Enhanced Audio Return Channel (eARC)	✓

Network

Wi-Fi *	✓
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Bluetooth *	✓
Bluetooth version	5.2
Ethernet LAN *	✓

Design

Product colour *	Black, Titanium
Colour name	Titan Black
VESA mounting *	✓
Panel mounting interface	200 x 200 mm
Frameless design	✓
Introduction year	2024
Bezel type	3 Bezel-less
Slim fit wall mount support	✓
Stand type	Hexagon stand
Stand colour	Black

Performance

High Dynamic Range (HDR) technology	Filmmaker Mode, High Dynamic Range 10+ (HDR10 Plus), Hybrid Log-Gamma (HLG)
Game mode	✓
Teletext function	✓
Ambient mode	Ambient Mode+
Eco sensor	✓
Brightness detection	✓
Colour detection	✓
AI Upscale	✓
TV key support	✓
Backlight dimming technology	Ultimate UHD dimming
Picture processing technology	Neural Quantum Processor 4K Gen 2, Samsung Real Depth Enhancer Pro
Noise reduction *	✓

Management features

Auto power off	✓
Works with Amazon Alexa	✓
Works with the Google Assistant	✓
Works with Samsung Bixby	✓
Universal Browse & Play	✓

Power

Power consumption (typical) *	77 W
Power consumption (standby) *	0.5 W
Power consumption (max)	225 W
Energy efficiency class (HDR) *	G
Energy efficiency class (SDR) *	F
Energy consumption (HDR) per 1000 hours *	174 kWh
Energy consumption (SDR) per 1000 hours *	77 kWh
AC input voltage	220 - 240 V
AC input frequency	50/60 Hz
Energy saving mode	✓
Energy efficiency scale	A to G

Brand-specific features

Samsung technologies (AV/TV)	AI Scaling, AMD FreeSync™ Premium Pro, Active Voice Amplifier Pro, Adaptive Sound Pro, Ambient Mode+, Auto HDR Remastering, Buds Auto Switch, Built-in SmartThings Hub, Dolby Atmos®, Expert Calibration, EyeComfort Mode, Gaming Hub, HDMI eARC, HDR10+, Mobile Tap Mirroring, Motion Xcelerator, Neo Quantum HDR, Neural Quantum Processor 4K, Object Tracking Sound Lite, Q-Symphony, Quantum Dot Display, Quantum Matrix Technology, Samsung Multi View, Samsung TV Plus, Smart Calibration, Smart TV powered by Tizen, Solar Cell One Remote, Ultimate UHD Dimming, Wide Viewing Angle

Weight & dimensions

Width (with stand)	1227.4 mm
Depth (with stand)	237 mm
Height (with stand)	768.2 mm
Weight (with stand)	20.6 kg
Width (without stand)	1227.4 mm
Depth (without stand)	26.9 mm
Height (without stand)	705.6 mm
Weight (without stand)	17.7 kg
Stand width	38.8 cm
Stand depth	23.7 cm

Packaging data

Package width	1448 mm
Package depth	170 mm
Package height	826 mm
Package weight	26.2 kg

Packaging content

Desktop stand	✓
Cables included	AC
Remote control included	✓
Remote control type	TM2360E
E-manual	✓

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