

Samsung - QN50QN90FAF : QN50QN90FAF

SpecificationsENERGY STAR Unique ID:943121Brand Name:SamsungModel Number:(N500,N90FAFModel Name:0,N500,N90FAFApplication:ConsumerDisplay Type:QP1-LED (QLED)Backlight Technology Type:QH0-LED (QLED)Backlight Technology Type:2160Native Vertical Resolution (pixels):3840NoAutomatic Brightness Control:Is Automatic Brightness Control:VersIs Automatic Brightness Control:VersIs Automatic Brightness Control:UletoothIs Automatic Brightness Control:UletoothIs Automatic Brightness Control:Quick Start,Wake-On-Cast CompatibilityControl-based Dynamic Drimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control Uls Smart Speaker,Upconversion,Motion-based Dynamic <th></th> <th></th>		
Brand Name:SamsungModel Number:QN50QN90FAFModel Name:QN50QN90FAFApplication:ConsumerDisplay Type:QD-LED (QLED)Backlight Technology Type:Direct-lit LEDResolution Format:4K (UHD)Native Vertical Resolution (pixels):3840Native Horizontal Resolution (pixels):NoAutomatic Brightness Control:YesIs Automatic Brightness Control:BluetoothFeatures:Quick Start, Wake-On-Cast Compatibility.Control Via Remote Control App.Control Via Smart Speaker, Upconversion, Motion-Essed Dynamic Dirming (MDD) (also known as Motion Eye Care).Automatic BrightnessReported Annual Energy Consumption for Certification (watts):5.76Reported Annual Energy Consumption for 	Specifications	
Model Number:QNS0QN90FAFModel Name:QNS0QN90FAFApplication:ConsumerDisplay Type:QD-LED (QLED)Backlight Technology Type:Direct-lit LEDResolution Format:4K (UHD)Native Vertical Resolution (pixels):2160Native Vertical Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:NoFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness ControlReported Annual Energy Consumption (MWH)143.81Average On Mode Power (per the Federal Test Procedure) (watts):5.76Reported On Mode Power (Metts):0.8Inagonal Viewable Screen Size (in.):0.95Diagonal Viewable Screen Size (in.):0.95Matest:0.025-0120	ENERGY STAR Unique ID:	3943121
Model Name:QNSQN90FAFApplication:ConsumerDisplay Type:QD-LED (QLED)Backlight Technology Type:Direct-lit LEDResolution Format:K (UHD)Native Vertical Resolution (pixels):3840Native Horizontal Resolution (pixels):3840Automatic Brightness Control:YesIs Automatic Brightness Control:YesIs Automatic Brightness Control:BluetootthPerfault in the Default SDR Preset PictureBluetootthSetting When Television is Shipped?:Joine Start, Wake-On-Cast Compatibility, Control Via Remote Control App. Control Via Smart Speaker, Upconversion, Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care), Automatic BrightnessReported Annual Energy Consumption143.81Average On Mode Power (per the Federal Tet Procedure) (watts):5.76Reported On Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):9.5Data Certified:0.250-120Markets:United States	Brand Name:	Samsung
Application:ConsumerDisplay Type:QH2ED (QLED)Backlight Technology Type:Direct-lit LEDResolution Format:4K (UHD)Native Vertical Resolution (pixels):340Native Horizontal Resolution (pixels):NoAutomatic Brightness Control:Vertical Calcolation (pixels):Native Horizontal Resolution (pixels):NoAutomatic Brightness Control:NoNative Horizontal SupportNoParter Strightness Control:NoNoNoSupport Wireless Technologies SupportNoSupport Wireless Control:NoNoNoSupport Vira Smart Speaker,Upconversion,Motion-based Dynamic Dynchrol Vira Smart Speaker,Upconversion,Motion-based Dynamic Dynamic, NADD) (also known as Motion Eye Care), Automatic Brightness Control Vira Smart Speaker,Upconversion, Motion-based Dynamic Dynamic, NADD) (also known as Motion Eye Care), Automatic Brightness Control Vira Smart Speaker,Upconversion, Motion-based Dynamic Dynchrol Vira Smart Speaker,Upconversion, Motion-based Dynamic Dynamic, NADD) (also known as Motion Eye Care), Automatic BrightnessReported Annual Energy ConsumptionNoAutomatic Brightness ControlNoSpeaker Motion Eye Care)NoNoted State Motion Exe Care)No	Model Number:	QN50QN90FAF
Display Type:Q0-LED (QLED)Backlight Technology Type:Direct-lit LEDResolution Format:4K (UHD)Native Vertical Resolution (pixels):2160Native Vertical Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control: Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:BluetoothIcow Power Wireless Technologies Supporte:BluetoothFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control App.Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic BrightnessReported Annual Energy Consumption (kWH)143.81Average On Mode Power (per the Federal Tech Procedure) (watts):0.8Reported Standby Mode Power (Watts):0.8Ingonal Viewable Screen Size (in.):9.5Diagonal Viewable Screen Size (in.):0.2501-20Markets:United States	Model Name:	QN50QN90FAF
Backlight Technology Type:Direct-lit LEDResolution Format:4K (UHD)Native Vertical Resolution (pixels):2160Native Horizontal Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabledy Befault in the Default SDR Preset Picture Setting When Television is Shipped?:NoLow Power Wireless Technologies Supported:BuetoothFeatures:Quick Start, Wake-On-Cast Compatibility, Control Via Remote Control App, Control Via Smart Speaker, Upconversion, Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care), Automatic BrightnessReported Annual Energy Consumption for Certification (watts):143.81Reported On Mode Power (per the Federal Test) Procedure) (watts):5.76Measured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):49.5Maters:0250-11-20Markets:Mited States	Application:	Consumer
Resolution Format:4K (UHD)Native Vertical Resolution (pixels):2160Native Horizontal Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:BluetoothFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable BacklightReported Annual Energy Consumption (kWH):143.81Average On Mode Power (Consumption for Certification (watts):75.76Reported Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):9.5Data Certified:0.25-01-20Markets:United States	Display Type:	QD-LED (QLED)
Native Vertical Resolution (pixels):2160Native Horizontal Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:BluetoothFeatures:Quick Start, Wake-On-Cast Compatibility, Control Via Remote Control App, Control Via Smart Speaker, Upconversion, Motion-Ebased Dynamic Dimming (MDD) (also known as Motion Eye Care), Automatic BrightnessReported Annual Energy Consumption (kWH):143.81Reported On Mode Power Consumption for Certification (watts):75.76Reported Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in:)0.8Diagonal Viewable Screen Size (in:)0.91Markets:United States	Backlight Technology Type:	Direct-lit LED
Native Horizontal Resolution (pixels):3840High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:NoLow Power Wireless Technologies Supporte:BluetoothFeatures:Quick Start, Wake-On-Cast Compatibility, Control Via Remote Control App, Control Via Smart Speaker, Upconversion, Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care), Automatic Brightness Control, User Adjustable BacklightReported Annual Energy Consumption (kWh):143.81Average On Mode Power (per the Federal Test Procedure) (watts):5.76Masured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):9.5Date Certified:0.25-01-20Markets:United States	Resolution Format:	4K (UHD)
High Contrast Ratio (HCR) Display:NoAutomatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:NoLow Power Wireless Technologies Supporte:BluetoothFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Sontrol,User Adjustable BacklightReported Annual Energy Consumption (kWh):143.81Average On Mode Power (per the Federal Test Procedure) (watts):5.766Reported On Mode Power (per the Federal Test)0.8Measured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):49.50-120Markets:Quick Startes:Markets:United States	Native Vertical Resolution (pixels):	2160
Automatic Brightness Control:YesIs Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?:NoLow Power Wireless Technologies SupporteetBluetoothFeatures:Quick Start, Wake-On-Cast Compatibility, Control Via Remote Control App, Control Via Smart Speaker, Upconversion, Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care), Automatic Brightness Control, User Adjustable BacklightReported Annual Energy Consumption (kWh):143.81Average On Mode Power Consumption for Certification (watts):5.76Reported On Mode Power (per the Federal Test Procedure) (watts):0.8Diagonal Viewable Screen Size (in.):9.5Date Certified:2025-01-20Markets:United States	Native Horizontal Resolution (pixels):	3840
S Automatic Brightness Control Enabled by Befault in the Default SDR Preset Picture setting When Television is Shipped?:NoLow Power Wireless Technologies SupporteeBluetoothFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable BacklightReported Annual Energy Consumption (kWh:143.81Average On Mode Power (per the Federal Test) Procedure) (watts):75.76Ported On Mode Power (per the Federal Test)0.8Masured Standby Mode Power (Watts):0.9Diagonal Viewable Screen Size (in.):92.501-20Markets:United States	High Contrast Ratio (HCR) Display:	No
Default in the Default SDR Preset PictureSelectionSetting When Television is Shipped?:BluetoothLow Power Wireless Technologies Supported:BluetoothFeatures:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Control App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable BacklightReported Annual Energy Consumption (kWh)143.81Average On Mode Power (per the Federal Tes Procedure) (watts):75.76Reported On Mode Power (per the Federal Tes Procedure) (watts):0.8Measured Standby Mode Power (Watts):9.5Diagonal Viewable Screen Size (in.):49.5Markets:0.101201	Automatic Brightness Control:	Yes
Features:Quick Start,Wake-On-Cast Compatibility,Control Via Remote Company App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable BacklightReported Annual Energy Consumption (kWh:143.81Average On Mode Power Consumption for Certification (watts):5.76Reported On Mode Power (per the Federal Test Procedure) (watts):0.8Measured Standby Mode Power (Watts):0.9Diagonal Viewable Screen Size (in.)0.9Date Certified:0.250-120Markets:United States	Default in the Default SDR Preset Picture	No
App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable BacklightReported Annual Energy Consumption (kWh)143.81Average On Mode Power Consumption for Certification (watts):5.76Reported On Mode Power (per the Federal Test Procedure) (watts):0.8Measured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in):0.9Date Certified:0.25-01-20Markets:United States	Low Power Wireless Technologies Supported:	Bluetooth
Average On Mode Power Consumption for Certification (watts):75.76Reported On Mode Power (per the Federal Test Procedure) (watts):75.76Measured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):49.5Date Certified:2025-01-20Markets:United States	Features:	App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness
Certification (watts):SolutionReported On Mode Power (per the Federal Test Procedure) (watts):75.76Measured Standby Mode Power (Watts):0.8Diagonal Viewable Screen Size (in.):49.5Date Certified:2025-01-20Markets:United States	Reported Annual Energy Consumption (kWh):	143.81
Procedure) (watts):Image: Constraint of the sector of the sec	•	75.76
Diagonal Viewable Screen Size (in.):49.5Date Certified:2025-01-20Markets:United States		75.76
Date Certified: 2025-01-20 Markets: United States	Measured Standby Mode Power (Watts):	0.8
Markets: United States	Diagonal Viewable Screen Size (in.):	49.5
	Date Certified:	2025-01-20
ENERGY STAR Certified: Yes	Markets:	United States
	ENERGY STAR Certified:	Yes

Additional Model Information

QN50QN90FDF,QN50QN90FDF,Same as basic model except model designation; QN50QN92FAF,QN50QN92FAF,Same as basic model except model designation