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## 2 Product specifications

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### 2-1 Fashion Feature

#### **Supreme Digital Interface & Networking**

-With a built-in HD digital tuner, it supports HD broadcasting with no particular set-top box and provides simple access with a single remote control.

#### **Excellent Picture Quality**

-DNIe technology provides life-like clear images.

#### **My Color Control**

-Colors can be set to your preference by adjusting Red, Green, Blue, Yellow, Pink and White.

#### **Dynamic Contrast**

-Automatically detects the input visual signal and adjusts to create optimum contrast.

#### **Brightness Sensor**

-Adjusts the screen brightness automatically depending on the brightness of the surrounding environment.

#### **SRS TruSurround XT**

-SRS TruSurround XT provides a virtual Dolby surround system.

#### **Convenience**

-The TV utilizes the HDMI system to implement perfect digital sound and picture quality.  
The Anynet system enables you to easily control Samsung audio-video (AV) devices from this TV.

## 2-2 LE23R86BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 23-Inch viewable, 0.372(H) x 0.372(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	508.2 mm / 285.7 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	100 W < 1 W	
Dimensions(W x D x H) Set	586 x 216 x 445 mm (After installation Stand) 586 x 83.5 x 405.5 mm (Without stand)	
Weight Set(After installation Stand)	8.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 3W / Left : 3W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-3 LE26R86BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 26-Inch viewable, 0.4215(H) x 0.4215(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	575.77 mm / 323.71 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	120 W < 1 W	
Dimensions(W x D x H) Set	666 x 216 x 449.5 mm (After installation Stand) 666 x 85 x 460.5 mm (Without stand)	
Weight Set(After installation Stand)	9.8Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ +8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-4 LE32R86BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 31.5-Inch viewable, 0.511 (H) x 0.511 (V) mm pixel	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	697.68 mm / 392.22 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	150 W < 1 W	
Dimensions(W x D x H) Set	800 x 252 x 580.5 mm (After installation Stand) 800 x 79 x 541 mm (Without stand)	
Weight Set(After installation Stand)	13.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-5 LE32R81B Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 31.5-Inch viewable, 0.511 (H) x 0.511 (V) mm pixel	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	697.68 mm / 392.22 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	150 W < 1 W	
Dimensions(W x D x H) Set	800 x 252 x 580.5 mm (After installation Stand) 800 x 79 x 541 mm (Without stand)	
Weight Set(After installation Stand)	13.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency :                    RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-6 LE37R86BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 37-Inch viewable, 0.6 (H) x 0.6 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	819.6 mm / 460.8 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	170 W < 1W	
Dimensions(W x D x H) Set	916.5 x 300 x 660.5 mm (After installation Stand) 916.5 x 87 x 618.2 mm (Without stand)	
Weight Set(After installation Stand)	20.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-7 LE37R81B Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 37-Inch viewable, 0.6 (H) x 0.6 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	819.6 mm / 460.8 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	170 W < 1W	
Dimensions(W x D x H) Set	916.5 x 300 x 660.5 mm (After installation Stand) 916.5 x 87 x 618.2 mm (Without stand)	
Weight Set(After installation Stand)	20.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-8 LE40R86BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 40-Inch viewable, 0.648(H) x 0.648(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	885.17 mm / 497.66 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	190 W < 1W	
Dimensions(W x D x H) Set	991.5 x 300 x 697.5 mm (After installation Stand) 991.5 x 87 x 654.6 mm (Without stand)	
Weight Set(After installation Stand)	21.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

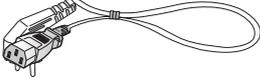
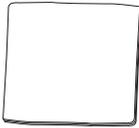
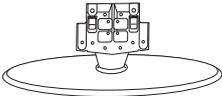
## 2-9 LE40R81B Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 40-Inch viewable, 0.648(H) x 0.648(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	885.17 mm / 497.66 mm	
AC power voltage & Frequency	AC 220 ~ 240 V, 60/50 Hz	
Power Consumption	190 W < 1W	
Dimensions(W x D x H) Set	991.5 x 300 x 697.5 mm (After installation Stand) 991.5 x 87 x 654.6 mm (Without stand)	
Weight Set(After installation Stand)	21.1Kg	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antena Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 5W / Left : 5W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	

## 2-10 Spec Comparison

Model	LE26R51B / LE32R51B / LE40R51B	LE23R86BD/LE26R86BD/ LE32R86BD/LE32R81B/LE37R86BD/ LE37R81B/LE40R86BD/LE40R81B
Design		
<b>Frequency</b> Horizontal Vertical Display Color	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors
<b>PC Resolution</b> Maximum mode	WXGA, 1360 x 768 @ 60 Hz	WXGA, 1366 x 768 @ 60 Hz
<b>Input Signal</b> Sync Signal Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm
<b>Power Consumption</b> Normal Power Saving	140W / 184W / 285W < 1W	100W / 120W / 150W / 170W / 190W < 1W

## 2-11 Option Specification

Item	Item Name	Code.No	Remark
	Remote Control & Batteries (AAA x 2)	LE23/26R86BD : BN59-00611A LE32/37/40R81B : BN59-00602A LE32/37/40R86BD : BN59-00603A	
	Power Cord	3903-000145	
	Cleaning Cloth	BN63-001798A	
	Stand	23", 26" : BN90-01150A 32" : BN90-01149A 37" : BN90-01148A 40" : BN90-01148A	
	Stand Screw	23", 26", 32"	
	Cover-Bottom	23", 26" : BN63-03221A 32" : BN63-03103A 37" : BN63-03113A 40" : BN63-03113A	

Memo