

2. Product Specifications

2-1. Product Information

2-1-1. Model Comparison

Model	UF5003/ UF4003		
Front View	 * W : Width H : High D : Depth		
Detail View	 		
Front Color	Black (Panel)		
Dimensions Set(W x D x H)	32"	Set with Stand	738.3 x 498.1 x 191.6 mm / 29.1 x 19.6 x 7.5 inches
		Set without Stand	738.3 x 444.6 x 93.1 mm / 29.1 x 17.5 x 3.7 inches
	39"	Set with Stand	895.9 x 589.3 x 227.6 mm / 35.3 x 23.2 x 9.0 inches
		Set without Stand	895.9 x 532.5 x 93.2 mm / 35.3 x 21.0 x 3.7 inches
	40"	Set with Stand	927.6 x 606.4 x 227.6 mm / 36.5 x 23.9 x 9.0 inches
		Set without Stand	927.6 x 551.0 x 93.0 mm / 36.5 x 21.7 x 3.7 inches
	46"	Set with Stand	1059.8 x 680.7 x 227.6 mm / 41.7 x 26.8 x 9.0 inches
		Set without Stand	1059.8 x 625.6 x 94.3 mm / 41.7 x 24.6 x 3.7 inches
Weight (Set)	32"	Set with Stand	6.4 kg / 14.1 lbs
		Set without Stand	5.7 kg / 12.6 lbs
	39"	Set with Stand	9.8 kg / 21.6 lbs
		Set without Stand	7.8 kg / 17.2 lbs
	40"	Set with Stand	11.0 kg / 24.3 lbs
		Set without Stand	9.0 kg / 19.8 lbs
	46"	Set with Stand	14.0 kg / 30.9 lbs
		Set without Stand	12.0 kg / 26.5 lbs
Panel Type	Anti Glare		
Internal Memory	None		
DDR	128 Mbyte		
Feature	Media Play(Movie)		

2-1-2. Feature & Specifications

Model	UN39FH5003	
Feature		
• Digital-TV, RF, 2-HDMI, 1-Component, 1-USB2.0 • Brightness : 300 cd/m² • High Contrast Ratio : 1200 : 1 • Response Time : 8 ms • CMR : 60		
Specifications		
Item	Description	
LCD Panel	39 inch HD 60 Hz	
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
Display Colors	16.7M colors	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	74.25 MHz	
Active Display (H x V)* * Horizontal x Vertical	33.6 (H) x 18.9 (V) Inches (853.9(H) x 480.3 (V) mm)	
AC Power Voltage & Frequency	AC 100V ~ 240V, 50/60 Hz	
Power Consumption	39W (Under 0.3 W, Stand by)	
Dimensions Set (W x D x H)	Set with Stand	895.9 x 589.3 x 227.6 mm / 35.3 x 23.2 x 9.0 inches
	Set without Stand	895.9 x 532.5 x 93.2 mm / 35.3 x 21.0 x 3.7 inches
Weight (Set)	Set with Stand	9.8 kg / 21.6 lbs
	Set without Stand	7.8 kg / 17.2 lbs
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ISDB-T, PAL-N , PAN-M , NTSC
	Sound	NTSC-M, Dolby Digital Plus/Pulse
Environmental Considerations	Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity: 20% ~ 90% Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity: 10% ~ 90%	
Audio Specifications	MAX Internal Audio Output Power : Each 10 W(Left/Right) Equalizer : 5 Band Output Frequency : • RF : 20 Hz ~ 15.4 kHz • AV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital Plus/Pulse, USB2.0, Film mode, Energy Saving, Eco sensor		

Model	UN40FH5003	
Feature		
- Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0 - High Contrast Ratio : MEGA - Response Time : 8 ms - CMR : 120		
Specifications		
Item	Description	
LCD Panel	40 inch FHD 60 Hz	
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
Display Colors	16.7M colors	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	74.25 MHz	
Active Display (H x V)* * Horizontal x Vertical	35.0 (H) x 19.8 (V) Inches (890.6(H) x 503.2 (V) mm)	
AC Power Voltage & Frequency	AC 100V ~ 240V, 50/60 Hz	
Power Consumption	55W (Under 0.3 W, Stand by)	
Dimensions Set (W x D x H)	Set with Stand	927.6 x 606.4 x 227.6 mm / 36.5 x 23.9 x 9.0 inches
	Set without Stand	927.6 x 551.0 x 93.0 mm / 36.5 x 21.7 x 3.7 inches
Weight (Set)	Set with Stand	11.0 kg / 24.3 lbs
	Set without Stand	9.0 kg / 19.8 lbs
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ISDB-T, PAL-N , PAN-M , NTSC
	Sound	NTSC-M, Dolby Digital Plus/Pulse
Environmental Considerations	Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity: 20% ~ 90% Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity: 10% ~ 90%	
Audio Specifications	MAX Internal Audio Output Power : Each 10 W(Left/Right) Equalizer : 5 Band Output Frequency : - RF : 20 Hz ~ 15.4 kHz - AV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital Plus/Pulse, USB2.0, Film mode, Energy Saving, Eco sensor		

2. Product specifications

Model	UN46FH5003	
Feature		
- Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0 - High Contrast Ratio : MEGA - Response Time : 8 ms - CMR : 120		
Specifications		
Item	Description	
LCD Panel	46 inch FHD 60 Hz	
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
Display Colors	16.7M colors	
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	74.25 MHz	
Active Display (H x V)* * Horizontal x Vertical	40.3 (H) x 22.7 (V) Inches (1023.0(H) x 577.6 (V) mm)	
AC Power Voltage & Frequency	AC 100V ~ 240V, 50/60 Hz	
Power Consumption	62W (Under 0.3 W, Stand by)	
Dimensions Set (W x D x H)	Set with Stand	1059.8 x 680.7 x 227.6 mm / 41.7 x 26.8 x 9.0 inches
	Set without Stand	1059.8 x 625.6 x 94.3 mm / 41.7 x 24.6 x 3.7 inches
Weight (Set)	Set with Stand	14.0 kg / 30.9 lbs
	Set without Stand	12.0 kg / 26.5 lbs
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ISDB-T, PAL-N , PAN-M , NTSC
	Sound	NTSC-M, Dolby Digital Plus/Pulse
Environmental Considerations	Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity: 20% ~ 90% Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity: 10% ~ 90%	
Audio Specifications	MAX Internal Audio Output Power : Each 10 W(Left/Right) Equalizer : 5 Band Output Frequency : - RF : 20 Hz ~ 15.4 kHz - AV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital Plus/Pulse, USB2.0, Film mode, Energy Saving, Eco sensor		

Model	UN32FH4003	
Feature		
- Digital-TV, RF, 2-HDMI, 1-Component, 1-A/V, 1-USB2.0 - High Contrast Ratio : MEGA - Response Time : 4 ms - CMR : 60		
Specifications		
Item	Description	
LCD Panel	32 inch HD 60 Hz	
Scanning Frequency	Horizontal : 60 kHz ~ 73 kHz (Automatic) Vertical : 47 Hz ~ 63 Hz (Automatic)	
Display Colors	16.7M colors	
Maximum Resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω, internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock Rate	74.25 MHz	
Active Display (H x V)* * Horizontal x Vertical	28.7 (H) x 16.2 (V) Inches (702.8 (H) x 457.3 (V) mm)	
AC Power Voltage & Frequency	AC 100 V ~ 240 V, 50 / 60 Hz	
Power Consumption	35W (Under 0.3 W, Stand by)	
Dimensions Set (W x D x H)	Set with Stand	738.8 x 493.3 x 191.7 mm / 29.1 x 19.4 x 7.5 inches
	Set without Stand	738.8 x 436.7 x 93.3 mm / 29.1 x 17.2 x 3.7 inches
Weight (Set)	Set with Stand	6.3 kg / 13.9 lbs
	Set without Stand	5.7 kg / 12.6 lbs
TV System	Tunning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ISDB-T, PAL-N , PAN-M , NTSC
	Sound	NTSC-M, Dolby Digital Plus/Pulse
Environmental Considerations	Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C) Operating Humidity: 20% ~ 90% Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C) Storage Humidity: 10% ~ 90%	
Audio Specifications	MAX Internal Audio Output Power : Each 5 W(Left/Right) Equalizer : 5 Band Output Frequency : - RF : 20 Hz ~ 15.4 kHz - AV/Componet/HDMI : 20 Hz ~ 20 kHz	
Note: Dolby Digital Plus/Pulse, Film mode, Energy Saving		

2-1-3. Specification Comparison to Old Models

Model	UF5F(UN**FH5003)	UE5L(UE**EH5000)
Design		
Display Type	LED TV	LED TV
Built-in Tuner	O	O
Resolution	1920 x 1080	1920 x 1080
LCD Panel	TFT LCD Panel 60 Hz	TFT LCD Panel 60 Hz
Screen Size	39/40/46	32/40/46
Picture ratio	16 : 9	16 : 9
Contrast Ratio	MEGA	MEGA
Picture Enhancer	HyperReal Engine (NT13)	HyperReal Engine (X9)
Wide Color Enhance Plus	Wide Color Enhance Plus	Wide Color Enhance Plus
Equalizer	5 Band	5 Band
Auto Volume Control	O	O
Surround Sound	Dolby Digital Plus/Pulse	Dolby Digital Plus/Pulse
Speaker Output	10W + 10W	10W + 10W
PIP	O	O
Function	Jog function	Jog function
Caption	O	O
Game Mode	O	O
Energy Saving	O	O
Network	X	X
Anynet+	X	X
Antenna	1(Cable/Air)	1(Cable/Air)

Model	F4B(UN32FH4003)	UE4J(UN**EH4000)	
Design			
Display Type	LED TV	LED TV	
Built-in Tuner	O	O	
Resolution	1366X768	1920 x 1080	
LCD Panel	TFT LCD Panel 60 Hz	TFT LCD Panel 60 Hz	
Screen Size	32	26/32	
Picture ratio	16 : 9	16 : 9	
Contrast Ratio	MEGA	MEGA	
Picture Enhancer	HyperReal Engine (novatek)	HyperReal Engine (X9)	
Wide Color Enhance Plus	Wide Color Enhance Plus	Wide Color Enhance Plus	
Equalizer	5 Band	5 Band	
Auto Volume Control	O	O	
Surround Sound	Dolby Digital Plus/Pulse	Dolby Digital Plus/Pulse	
Speaker Output	5W + 5W	26	5W + 5W
		32	10W + 10W
PIP	O	O	
Function	Jog function	Jog function	
Caption	O	O	
Game Mode	O	O	
Energy Saving	O	O	
Network	X	X	
Anynet+	X	X	
Antenna	2(Cable/Air)	2(Cable/Air)	

2-2. Detail Factory Option



NOTE

If you replace the main board with new one, please change the factory option as well.
The options you must change are "Type".

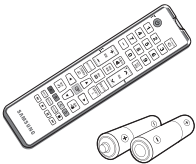
Model Name			UN39FH5003	UN40FH5003	UN46FH5003	UN32FH4003
Panel	Vendor		AUO	AML	AML	SDC
	Code		BN07-01236A	BN95-01033A	BN95-01064A	BN95-01063A
	Spec.		DE390BGA-C1	LSF400HM02	LSF460HN02	CY-HF320AGLV3V
SMPS	Vendor		HANSOE	HANSOE Dongyang	HANSOE	SEM
	Code		BN44-00496B	BN44-00496B BN44-00496A	BN44-00497B	BN44-00492A
	Spec.		PD40AVF_CDY	PD40AVF_CDY PD40AVF_CSM	PD46AVF_CHS	PD32AV0_CSM
Byte	Item	Chassis Ass'y	BN91-10791W	BN91-10791X	BN91-10791Y	BN91-10933W
0	Factory Reset	PBA Ass'y code	BN94-06408N	BN94-06408P	BN94-06408Q	BN94-06179L
1	Type		39P1AF0D	40A6AF0D	46A6AF0D	32A6AH0D
2	Local Set		BRA_DTV	BRA_DTV	BRA_DTV	BRA_DTV
3	Basic Model		UE5003	UE5003	UE5003	UE4003
4	SVC Model		5003	5003	5003	4003
5	Tuner		SEC_ISDB	SEC_ISDB	SEC_ISDB	SEC_ISDB
6	Ch Table		-	-	-	-
7	Front Color		U-S-C-5K	U-S-C-5K	U-S-C-5K	U-S-C-5K

2-3. Accessories



NOTE

- The items' colors and shapes may vary depending on the model.

Product	Description	Code. No	Remark
	Remote Control Batteries (AAA x 2)	BN61-08370A	Supplied Accessories
		UN32FH4003G : AA59-00718A	
	Power Cord	3903-000851	
	Owners Manual	BN68-05221A	
	Holder-Wire stand	BN61-08370A	