

Model	LE46A956D	
Feature		
▶ Digital-TV, RF, 4-HDMI, 2-Component, 2-A/V, 1-S-Video, USB(Wisalink), D-SUB, INFO LINK ▶ Brightness : 450cd/m² ▶ Contrast Ratio : 3000:1 ▶ Response time : 6ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1, 2, 3, 4, Component 1, 2, PC Mode and Sub picture is available only in TV analog mode)		
Specifications		
Item	Description	
LCD Panel	TFT-LCD PANEL, RGB vertical stripe, SPVA mode, WLED Backlight, DE mode, 46-Inch viewable, 0.53025(H) x 0.53025(V) x 3mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 80 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	1.07 billion 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	310MHz	
Active Display Horizontal/Vertical	40.1 x 22.54 inches (1018.08 (H) x 572.67 (V) mm)	
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz	
Power Consumption	<240W (< 1W, stand by)	
Dimensions Set (W x D x H)	45.68 x 11.8 x 29.9 inches(1160.2 x 299.9 x 759.4mm)_ with stand 45.68 x 4.25 x 27.53 inches(1160.2 x 107.9 x 699.3mm)_ without stand	
Weight (Set)	67.68 lbs (30.7 kg)_ with stand 58.86 lbs (26.7 kg)_ without stand	
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	DVB-T, BG, DK, L/L', I
	Sound	FM, AM, A2, NICAM, MPEG1, AC3, AC3+
	Colour	PAL, SECAM, NT4.43
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing	
Audio System	- MAX Internal speaker Out : Right => 10W, Left => 10W - 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 A/V : 80 Hz ~ 20 kHz	
Note: Anynet+, WISELINK, INFO LINK		

2. Product specifications

Model	LE55A956D	
Feature		
▶ Digital-TV, RF, 4-HDMI, 2-Component, 2-A/V, 1-S-Video, USB(Wiselink), D-SUB, INFO LINK ▶ Brightness : 450cd/m² ▶ Contrast Ratio : 3000:1 ▶ Response time : 6ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1, 2, 3, 4, Component 1, 2, PC Mode and Sub picture is available only in TV analog mode)		
Specifications		
Item	Description	
LCD Panel	TFT-LCD PANEL, RGB vertical stripe, SPVA mode, WLED Backlight, DE mode, 55-Inch viewable, 0.63(H) x 0.63(V) x 3mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 80 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	1.07 billion 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	307MHz	
Active Display Horizontal/Vertical	47.62 x 26.79 inches(1209.6(H) x 680.4(V)mm)	
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz	
Power Consumption	<280 W (< 1W, stand by)	
Dimensions Set (W x D x H)	53.7 x 13.3 x 34.75 inches(1364.0 x 337.8 x 882.6mm)_ with stand 53.7 x 4.44 x 32.33 inches(1364.0 x 112.7 x 821.3mm)_ without stand	
Weight (Set)	91.42 lbs (41.4 kg)_ with stand 80.03 lbs (36.3 kg)_ without stand	
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	DVB-T, BG, DK, L/L', I
	Sound	FM, AM, A2, NICAM, MPEG1, AC3, AC3+
	Colour	PAL, SECAM, NT4.43
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing	
Audio System	- MAX Internal speaker Out : Right => 10W, Left => 10W - 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 A/V : 80 Hz ~ 20 kHz	
Note: Anynet+, WISELINK, INFO LINK		

CHANNEL FREQUENCY TABLE

1. OUTPUT FREQUENCY : ANALOG fv:45.75MHz, fs:41.25MHz DIGITAL Fc:44MHz

2. TUNING STEP SIZE : FIRST PLL 250KHz SECOND PLL 62.5KHz

OSD	CH NO	AIR		BAND	CH NO	Cable STD		BAND	CH NO	Cable HRC		CH NO	Cable IRC	
		Air-DTV	Air-NTSC											
1	1								A-8	72.00		A-8	73.25	
2	2	57	55.25	V-L	2	55.25		V-L	2	54.00		2	55.25	
3	3	63	61.25	V-L	3	61.25		V-L	3	60.00		3	61.25	
4	4	69	67.25	V-L	4	67.25		V-L	4	66.00		4	67.25	
5	5	79	77.25	V-L	5	77.25		V-L	A-7	78.00		A-7	79.25	
6	6	85	83.25	V-L	6	83.25		V-L	A-6	84.00		A-6	85.25	
7	7	177	175.25	V-H	7	175.25		V-H	7	174.00		7	175.25	
8	8	183	181.25	V-H	8	181.25		V-H	8	180.00		8	181.25	
9	9	189	187.25	V-H	9	187.25		V-H	9	186.00		9	187.25	
10	10	195	193.25	V-H	10	193.25		V-H	10	192.00		10	193.25	
11	11	201	199.25	V-H	11	199.25		V-H	11	198.00		11	199.25	
12	12	207	205.25	V-H	12	205.25		V-H	12	204.00		12	205.25	
13	13	213	211.25	V-H	13	211.25		V-H	13	210.00		13	211.25	
14	14	473	471.25	UHF	A	121.25		MID	A	120.00		A	121.25	
15	15	479	477.25	UHF	B	127.25		MID	B	126.00		B	127.25	
16	16	485	483.25	UHF	C	133.25		MID	C	132.00		C	133.25	
17	17	491	489.25	UHF	D	139.25		MID	D	138.00		D	139.25	
18	18	497	495.25	UHF	E	145.25		MID	E	144.00		E	145.25	
19	19	503	501.25	UHF	F	151.25		MID	F	150.00		F	151.25	
20	20	509	507.25	UHF	G	157.25		MID	G	156.00		G	157.25	
21	21	515	513.25	UHF	H	163.25		MID	H	162.00		H	163.25	
22	22	521	519.25	UHF	I	169.25		MID	I	168.00		I	169.25	
23	23	527	525.25	UHF	J	175.25		SUPER	J	174.00		J	175.25	
24	24	533	531.25	UHF	K	181.25		SUPER	K	180.00		K	181.25	
25	25	539	537.25	UHF	L	187.25		SUPER	L	186.00		L	187.25	
26	26	545	543.25	UHF	M	193.25		SUPER	M	192.00		M	193.25	
27	27	551	549.25	UHF	N	199.25		SUPER	N	198.00		N	199.25	
28	28	557	555.25	UHF	O	205.25		SUPER	O	204.00		O	205.25	
29	29	563	561.25	UHF	P	211.25		SUPER	P	210.00		P	211.25	
30	30	569	567.25	UHF	Q	217.25		SUPER	Q	216.00		Q	217.25	
31	31	575	573.25	UHF	R	223.25		SUPER	R	222.00		R	223.25	
32	32	581	579.25	UHF	S	229.25		SUPER	S	228.00		S	229.25	
33	33	587	585.25	UHF	T	235.25		SUPER	T	234.00		T	235.25	
34	34	593	591.25	UHF	U	241.25		SUPER	U	240.00		U	241.25	
35	35	599	597.25	UHF	V	247.25		SUPER	V	246.00		V	247.25	
36	36	605	603.25	UHF	W	253.25		SUPER	W	252.00		W	253.25	
37	37	611	609.25	UHF	AA	259.25		HYPER	AA	258.00		AA	259.25	
38	38	617	615.25	UHF	BB	265.25		HYPER	BB	264.00		BB	265.25	
39	39	623	621.25	UHF	CC	271.25		HYPER	CC	270.00		CC	271.25	
40	40	629	627.25	UHF	DD	277.25		HYPER	DD	276.00		DD	277.25	
41	41	635	633.25	UHF	EE	283.25		HYPER	EE	282.00		EE	283.25	
42	42	641	639.25	UHF	FF	289.25		HYPER	FF	288.00		FF	289.25	
43	43	647	645.25	UHF	GG	295.25		HYPER	GG	294.00		GG	295.25	
44	44	653	651.25	UHF	HH	301.25		HYPER	HH	300.00		HH	301.25	
45	45	659	657.25	UHF	II	307.25		HYPER	II	306.00		II	307.25	
46	46	665	663.25	UHF	JJ	313.25		HYPER	JJ	312.00		JJ	313.25	
47	47	671	669.25	UHF	KK	319.25		HYPER	KK	318.00		KK	319.25	
48	48	677	675.25	UHF	LL	325.25		HYPER	LL	324.00		LL	325.25	
49	49	683	681.25	UHF	MM	331.25		HYPER	MM	330.00		MM	331.25	
50	50	689	687.25	UHF	NN	337.25		HYPER	NN	336.00		NN	337.25	
51	51	695	693.25	UHF	OO	343.25		HYPER	OO	342.00		OO	343.25	
52	52	701	699.25	UHF	PP	349.25		HYPER	PP	348.00		PP	349.25	
53	53	707	705.25	UHF	QQ	355.25		HYPER	QQ	354.00		QQ	355.25	
54	54	713	711.25	UHF	RR	361.25		HYPER	RR	360.00		RR	361.25	
55	55	719	717.25	UHF	SS	367.25		HYPER	SS	366.00		SS	367.25	
56	56	725	723.25	UHF	TT	373.25		HYPER	TT	372.00		TT	723.25	
57	57	731	729.25	UHF	UU	379.25		HYPER	UU	378.00		UU	729.25	
58	58	737	735.25	UHF	VV	385.25		HYPER	VV	384.00		VV	735.25	
59	59	743	741.25	UHF	WW	391.25		HYPER	WW	390.00		WW	741.25	
60	60	749	747.25	UHF	XX	397.25		HYPER	XX	396.00		XX	747.25	
61	61	755	753.25	UHF	YY	403.25		HYPER	YY	402.00		YY	753.25	
62	62	761	759.25	UHF	ZZ	409.25		HYPER	ZZ	408.00		ZZ	759.25	
63	63	767	765.25	UHF	AAA	415.25		HYPER	AAA	414.00		AAA	765.25	
64	64	773	771.25	UHF	BBB	421.25		HYPER	BBB	420.00		BBB	771.25	
65	65	779	777.25	UHF	CCC	427.25		ULTRA	CCC	426.00		CCC	777.25	
66	66	785	783.25	UHF	DDD	433.25		ULTRA	DDD	432.00		DDD	783.25	
67	67	791	789.25	UHF	EEE	439.25		ULTRA	EEE	438.00		EEE	789.25	
68	68	797	795.25	UHF	FFF	445.25		ULTRA	FFF	444.00		FFF	795.25	
69	69	803	801.25	UHF	GGG	451.25		ULTRA	GGG	450.00		GGG	801.25	

2. Product specifications

OSD	CH NO	AIR		BAND	CH NO	Cable STD	BAND	CH NO	Cable HRC	CH NO	Cable IRC
		Air-DTV	Air-NTSC								
70	70				HHH	499.25	ULTRA	HHH	498.00	HHH	499.25
71	71				III	505.25	ULTRA	III	504.00	III	505.25
72	72				JJJ	511.25	ULTRA	JJJ	510.00	JJJ	511.25
73	73				KKK	517.25	ULTRA	KKK	516.00	KKK	517.25
74	74				LLL	523.25	ULTRA	LLL	522.00	LLL	523.25
75	75				MMM	529.25	ULTRA	MMM	528.00	MMM	529.25
76	76				NNN	535.25	ULTRA	NNN	534.00	NNN	535.25
77	77				000	541.25	ULTRA	000	540.00	000	541.25
78	78				PPP	547.25	ULTRA	PPP	546.00	PPP	547.25
79	79				79	553.25	ULTRA	79	552.00	79	553.25
80	80				80	559.25	ULTRA	80	558.00	80	559.25
81	81				81	565.25	ULTRA	81	564.00	81	565.25
82	82				82	571.25	ULTRA	82	570.00	82	571.25
83	83				83	577.25	ULTRA	83	576.00	83	577.25
84	84				84	583.25	ULTRA	84	582.00	84	583.25
85	85				85	589.25	ULTRA	85	588.00	85	589.25
86	86				86	595.25	ULTRA	86	594.00	86	595.25
87	87				87	601.25	ULTRA	87	600.00	87	601.25
88	88				88	607.25	ULTRA	88	606.00	88	607.25
89	89				89	613.25	ULTRA	89	612.00	89	613.25
90	90				90	619.25	ULTRA	90	618.00	90	619.25
91	91				91	625.25	ULTRA	91	624.00	91	625.25
92	92				92	631.25	ULTRA	92	630.00	92	631.25
93	93				93	637.25	ULTRA	93	636.00	93	637.25
94	94				94	643.25	ULTRA	94	642.00	94	643.25
95	95				A-5	91.25	FM	A-5	90.00	A-5	91.25
96	96				A-4	97.25	FM	A-4	96.00	A-4	97.25
97	97				A-3	103.25	FM	A-3	102.00	A-3	103.25
98	98				A-2	109.25	MID	A-2	108.00	A-2	109.25
99	99				A-1	115.25	MID	A-1	114.00	A-1	115.25
100	100				100	649.25	ULTRA	100	648.00	100	649.25
101	101				101	655.25	ULTRA	101	654.00	101	655.25
102	102				102	661.25	ULTRA	102	660.00	102	661.25
103	103				103	667.25	ULTRA	103	666.00	103	667.25
104	104				104	673.25	ULTRA	104	672.00	104	673.25
105	105				105	679.25	ULTRA	105	678.00	105	679.25
106	106				106	685.25	ULTRA	106	684.00	106	685.25
107	107				107	691.25	ULTRA	107	690.00	107	691.25
108	108				108	697.25	ULTRA	108	696.00	108	697.25
109	109				109	703.25	ULTRA	109	702.00	109	703.25
110	110				110	709.25	ULTRA	110	708.00	110	709.25
111	111				111	715.25	ULTRA	111	714.00	111	715.25
112	112				112	721.25	ULTRA	112	720.00	112	721.25
113	113				113	727.25	ULTRA	113	726.00	113	727.25
114	114				114	733.25	ULTRA	114	732.00	114	733.25
115	115				115	739.25	ULTRA	115	738.00	115	739.25
116	116				116	745.25	ULTRA	116	744.00	116	745.25
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125	125				125	799.25	ULTRA	125	798.00	125	799.25
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2-2. Content Library

<Large Screen>

It offers contents to maximize the benefits of the large screen size.

<Availability and interesting>

It is composed of information and services, which are useful to everyday life and can be enjoyed together.

<Simple serviceability>

Features can be upgraded via the Samsung.com website.

- TV can use be added contents by external USB memory.

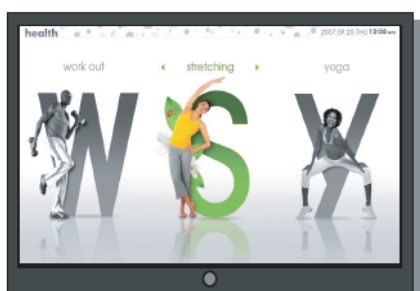
The "Contents Library" is a new function which allows you to enjoy useful information on your TV without any separate devices. It includes content from five different subject categories.

<How to operate>

- Go to the main screen by pressing the remote control hot key.
- Navigate via the remote control wheel key (four-direction button), return key and enter key.

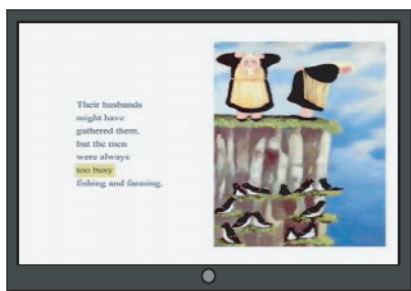
Fitness

Beneficial health and stretching activities that can be followed in the comfort of a living room.



Children

Fun and interactive educational material for children to watch and enjoy repeatedly.



Cooking Gallery

A cooking manual, which can be followed in easy and simple steps

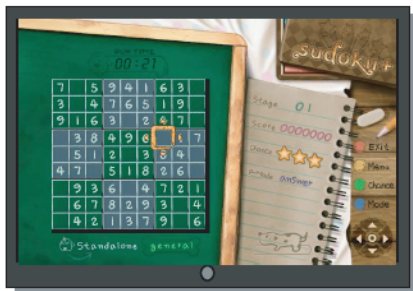


Provides atmosphere with a series of high definition slide shows and background music.



Game

Casual entertaining games, which can be enjoyed simply by using the remote control

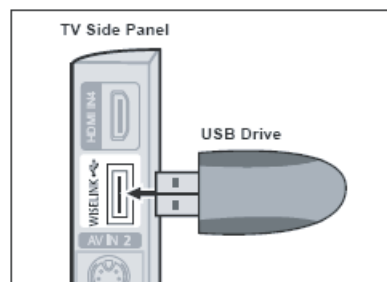


2-3. Wiselink

2-3-1 Using the WISELINK Function

This function enables you to view and listen to photo(JPEG), audio files(MP3) and movie(MPEG) saved on a USB Mass Storage Class (MSC) device.

1. Press the POWER button on the remote control or front panel.
- The TV is powered on.
2. Connect a USB device containing JPEG and/or MP3 and or/MPEG files to the WISELINK jack (USB jack) on the side of the TV.



- (If you enter the WISELINK mode with no USB device connected the message "No external storage device found. Check the connection status." will appear. In this case, insert the USB device, exit the screen by pressing the W.LINK button on the remote control and enter the WISELINK screen again.
- MTP (Media Transfer Protocol) is not supported.
- The file system only supports FAT16/32 (The NTFS file system is not supported).
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Wiselink only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB Compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data.SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- The sequential jpeg format is supported.
- Photo and audio files must be named in English, French or Spanish. If not, the files can not be played. Change the file names to English, French or Spanish if necessary.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- For unsupported or corrupted files, the "Not Supported File Format" message is displayed.

2. Product specifications

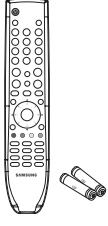
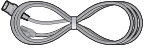
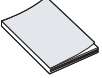
-. movie format

File Extention	Container	Video Decoder	Resolution	Audio codec
* .avi	AVI	Xvid	800 x 600	PCM
				ADPCM
		H.264 MP	1920 x 1088	AC3
		MPEG4 SP	800 x 600	PCM
				ADPCM
* .mp4	MP4	MJPEG	800 x 600	PCM
		H.264 BP	1920 x 1088	AAC
		H.264 MP	1920 x 1088	PCM
* .mpg	PS	MPEG2	1920 x 1088	AAC
* .vro	VRO	MPEG2	1920 x 1088	AC3
* .vob				

2-4. Specification Comparison to Old Models

Model	Diamond (LE46A956D/LE55A956D)	Tulip(LNT4061)
Design		
Display Type	LCD TV	LCD TV
Resolution	1920 x 1080	1920 x 1080
LCD Panel	TFT LCD Panel 120Hz (LED Backlight)	TFT LCD Panel 60Hz
Screen Size	46" / 55"	40"
Picture ratio	16 : 9	16 : 9
Dimensions (W x H x D)	46 45.68 x 11.8 x 29.9 inches (1160.2 x 299.9 x 759.4mm)_ with stand 45.68 x 4.25 x 27.53 inches (1160.2 x 107.9 x 699.3mm)_ without stand 55 53.7 x 13.3 x 34.75 inches (1364.0 x 337.8 x 882.6mm)_ with stand 53.7 x 4.44 x 32.33 inches (1364.0 x 112.7 x 821.3mm)_ without stand	44.4 x 12.8 x 31.0 inches_With Stand 44.4 x 4.2 x 28.8 inches_Without Stand
Weight	46 67.68 lbs (30.7 kg)_ with stand 58.86 lbs (26.7 kg)_ without stand 55 91.27 lbs(41.4kg)_ with stand 80.03 lbs (36.3 kg)_ without stand	78.2 lbs (set)
Brightness	500 nit	500 nit
Contrast Ratio	3000:1	8000:1
Picture Enhacer	DNle(FBE3)	DNle (FBE2)
Equalizer	5 Band	O
Auto Motion Plus 120Hz	O	X
Surround Sound	2 Way SRS TruSurround Dolby Digital	2 Way SRS TruSurround Dolby Digital
Speaker Output	46" : 10W + 10W 55" : 15W + 15W	10W + 10W
Antenna	1 (Cable/Air)	2 (Cable/Air)

2-5. Accessories

Product	Description	Code. No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00700A	Samsung Electronics Service center
	Power Cord	3903-000144	
	Cover-Bottom	46" : BN63-04336A 55" : BN63-04340A	
	Owner's Instructions	BN68-01689A	
	Cleaning Cloth	BN63-01798B	