

Model	UN46B8000XF	
Feature		
▶ Digital-TV, RF, 4-HDMI, 1-Component, 1-AV, USB1, USB2 (HDD is available only in USB1), D-SUB, Internet@TV ▶ Brightness : 500cd/m² ▶ Contrast Ratio : 5000000:1 ▶ Response time : 3ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1, 2, 3, 4, component, PC Mode and Sub picture is available in TV analog and digital mode)		
Specifications		
Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, SPVA mode, normaly black, 46-Inch viewable, 0.53025(H) × 0.53025(W) mm pixel pitch	
Scanning Frequency	Horizontal : 67.5KHz (typ) Vertical : 60Hz (typ)	
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	148.5MHz	
Active Display Horizontal/Vertical	40.083 × 22.547 inches (1018.08 (H) × 572.67(V) mm)	
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz	
Power Consumption	< 220W (< 0.1W, stand by)	
Dimensions Set (W x D x H)	44.5 × 10.9 × 29.8 inches (1131 × 277 × 757 mm)_with stand 44.5 × 1.17 × 27 inches (1131 × 29.9 × 688 mm)_without stand	
Weight (Set)	50.26lbs (22.8kg)_with stand 38.68lbs(18kg)_without stand	
TV System	Tuning	Frequency Synthesizer (Refer to detailed Frequency Table)
	System	ATSC, NTSC 3.58
	Sound	NTSC-M, AC-3 Digital
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 spec.	- MAX Internal speaker Out : Right => 10W, Left => 10W - BASS Control Range : -10dB ~ + 10dB - TREBLE Control Range : -10dB ~ +10dB - Output Frequency : RF : ~ 15 kHz A/V : ~ 20 kHz	
Note: Anynet+, Media Play, Internet@TV		

2. Product specifications

Model	UN55B8000XF	
Feature		
▶ Digital-TV, RF, 4-HDMI, 1-Component, 1-AV, USB1, USB2 (HDD is available only in USB1), D-SUB, Internet@TV ▶ Brightness : 500cd/m² ▶ Contrast Ratio : 5000000:1 ▶ Response time : 3ms ▶ Dynamic contrast, Super-PVA ▶ PIP(in HDMI 1, 2, 3, 4, component, PC Mode and Sub picture is available in TV analog and digital mode)		
Specifications		
Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, SPVA mode, normally black, 52-Inch viewable, 0.63(H) × 0.63(W) mm pixel pitch	
Scanning Frequency	Horizontal : 67.5KHz (typ) Vertical : 60Hz (typ)	
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	148.5MHz	
Active Display Horizontal/Vertical	47.624×26.788 inches (1209.6 (H) × 680.4 (V) mm)	
AC power voltage & Frequency	AC 110V ~ 220V, 60 Hz	
Power Consumption	< 260W (< 0.1W, stand by)	
Dimensions Set (W x D x H)	52 × 12 × 33.85 inches (1322 × 307 × 860 mm)_with stand 52 × 1.177 × 31.37 inches (1322 × 29.9 × 797 mm)_without stand	
Weight (Set)	63.93lbs (29kg)_with stand 51.14lbs(23.2kg)_without stand	
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	ATSC, NTSC 3.58
	Sound	NTSC-M, AC-3 Digital
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 spec.	- MAX Internal speaker Out : Right => 15W, Left => 15W - BASS Control Range : -10dB ~ + 10dB - TREBLE Control Range : -10dB ~ +10dB - Output Frequency : RF : ~ 15 kHz A/V : ~ 20 kHz	
Note: Anynet+, Media Play, Internet@TV		

CHANNEL FREQUENCY TABLE

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

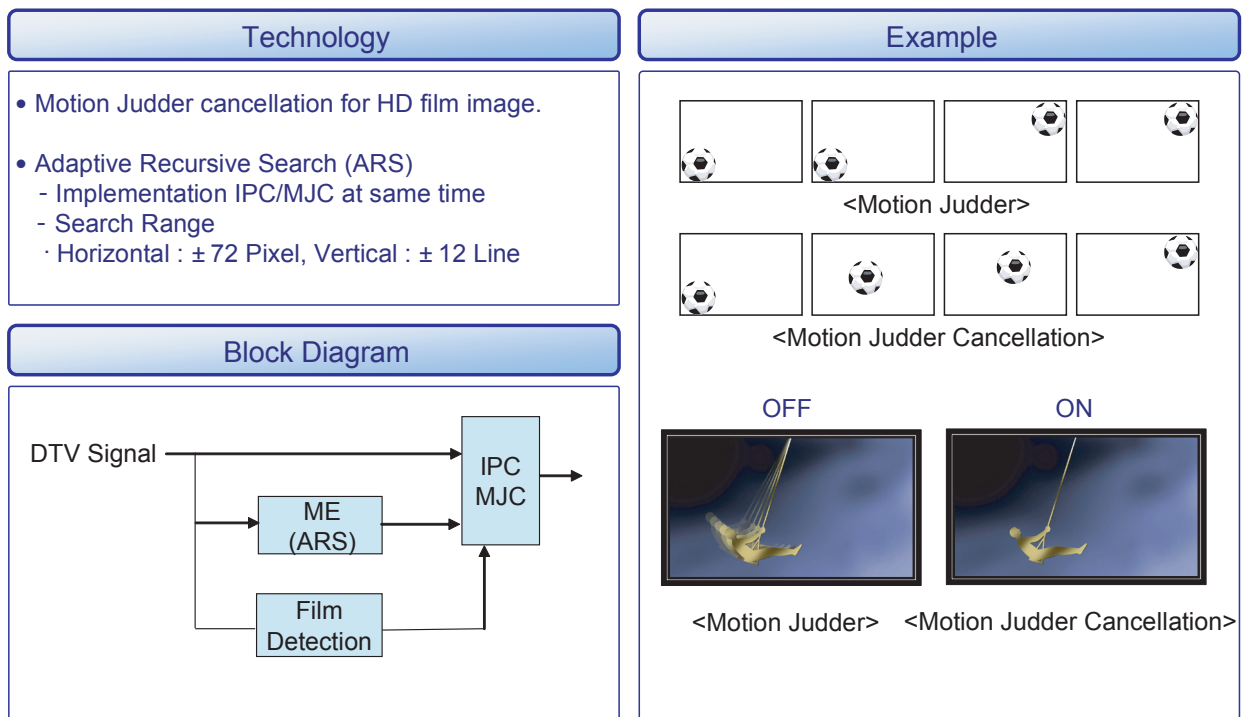
2. TUNING STEP SIZE : FIRST PLL 250KHz SECOND PLL 62.5KHz

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
.	.				.	.	.	.	.	.	.
.	.				.	.	.	.	.	.	.

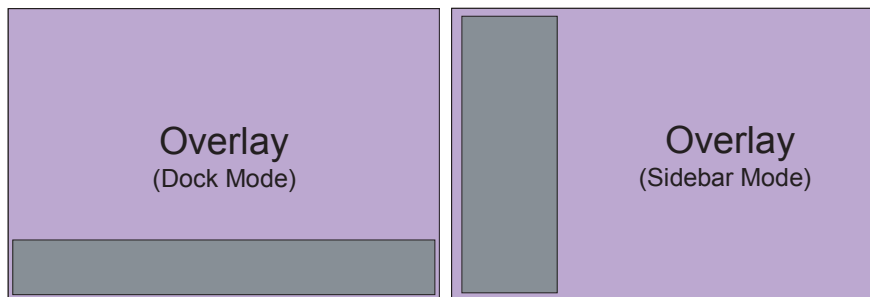
2-2. MJC : Motion Judder Cancellation (FRC)



2-3. Internet@TV

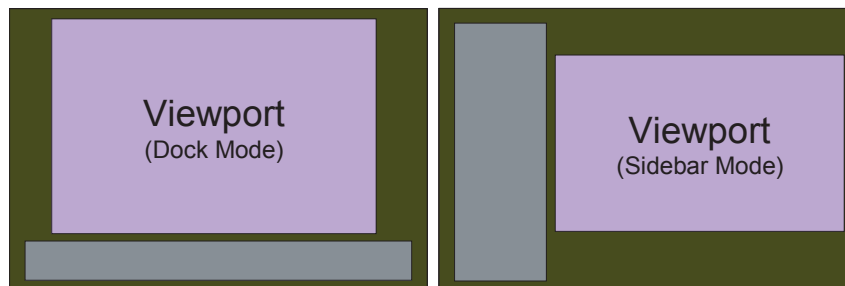
2-3-1. Overlay Mode

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



- A. In overlay mode, the video plays in its native size, covering up to the full screen.
Graphical elements in the graphical plane are overlaid on top of the video plane.
- B. In overlay mode while displaying the sidebar, at least 2/3 of the video is free of graphical overlays.
- C. In overlay mode while displaying the dock, at least 3/4 of the video is free of graphical overlays.
- D. YahooTV is executed to overlay mode at first time.

2-3-2. Viewport Mode



- A. In viewport mode, the video plays in a scaled-down size, covering only a portion of the screen. This smaller viewing area for video is called the viewport.
- B. The viewport should cover at least half of the screen area. Graphics are displayed in areas outside of the viewport.
- C. The purpose of the viewport mode is to display the entire video without obstruction.
- D. The viewport mode preserves the 16:9 aspect ratio of the video.

2-3-3. Yahoo OOB

■ Description

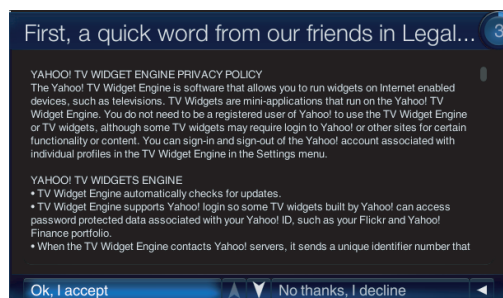
- A. All users go through OOB (Guided Setup) to access the dock the first time.
- B. All users must specify a location and accept the TOS before the TV Widgets service are accessible. The rest of the screens are optional.
- C. When user inputs Back button (Return key), TV goes back to the previous screen.
- D. IF user input EXIT key, OOB is goes to hide mode. And user input WIDGET key, previous screen is displayed again.
- E. Back Ground of OOB is TV video.



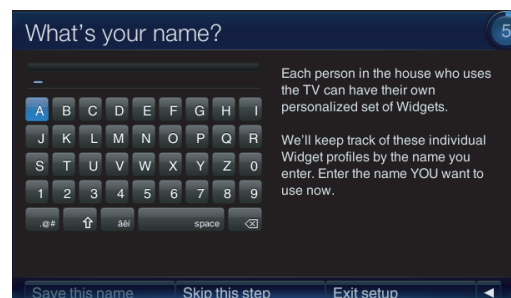
Start page explain value proposition



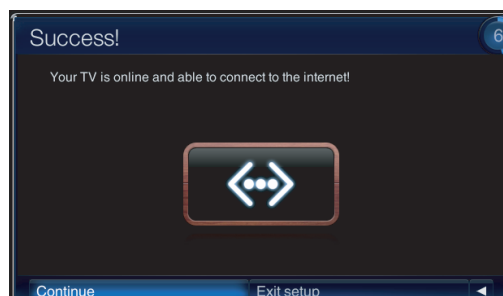
User must choose country before TOS is accepted.
Country is sorted by Alphabet.
If user select Up/Down arrow, Before/Next page is displayed.



TOS will updated based on country selected.

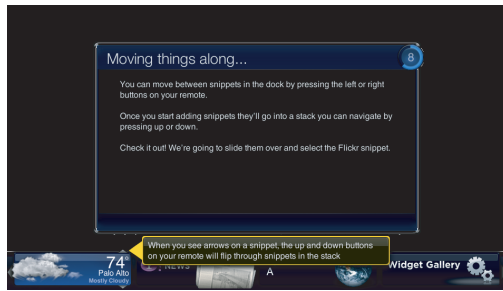


Optional Screen: users are asked to enter in a profile name. A default name (Profile One) is given to them if they do not create a name.

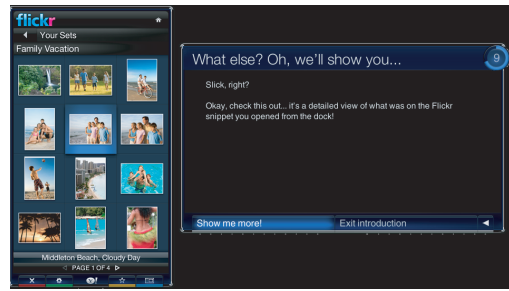


Tutorial: Screens explaining how dock works.

2. Product specifications



Tutorial: Screens explaining how dock works.



Tutorial: Screens explaining the sidebar and global nav buttons.



Final screen before dock comes up.

2-3-4. Gallery Widget

■ Overview

- A. In the TV Widgets, widget gallery services are online services where widget developers publish widgets for download.
- B. The default widget gallery for the platform is the Widget Gallery Services.
- C. To find and install new widgets, launch the gallery widget from the dock.
- D. The gallery widget has access to a privileged set of APIs accessible only to Yahoo! signed widgets.
- E. These privileged APIs are used to download and install software on your device.
- F. Third party widget developers do not have access to these privileged APIs.
- G. The gallery widget can potentially be extended by an OEM to connect to one or more widget gallery back-end servers.
- H. The Yahoo! Gallery Widget provides the only way to install new widgets from the Widget Gallery Services, which contain a catalog of 3rd party widgets managed by Yahoo!.



Note: the above image will be updated and visuals elements laid out in this may not apply.

2-3-5. Profile Widget

■ Overview



- A. The Profile widget is the way to configure your widget environment for your user profile. With the settings widget you can configure:
 - i. Profile Management: Create, edit and switch profiles.
 - ii. Security Settings: Setup a Profile and/or Owner PIN for security purposes.
 - iii. System Settings: Repeat guided setup, set and edit location and restore factory defaults
- B. The Profile widget is located in the dock. Press the TV Widget launch key on the remote control to launch the dock, and then press the RIGHT or LEFT ARROW until you focus on the settings widget.
- C. User profile name is displayed on the Profile snippet.
- D. Select the Profile snippet to launch the settings widget.
- E. The Profile widget opens up into its sidebar.
- F. The following functionality is available from the Profile menu:
 - i. Switch Profile
 - ii. Settings for Current Profile
 - iii. System Settings
 - iv. Administrative Controls
 - v. Sign-out of Current Profile

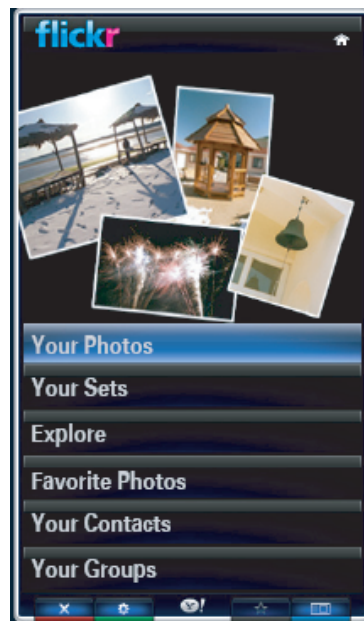
2-3-6. Flickr TV Widget

■ Description

A. Flickr TV Widget is a Widget for displaying photos from Flickr. You can view your:

- i. Personal photos
- ii. Your sets of photos
- iii. Explore Flickr's user community photos
- iv. Your favorite photos
- v. Your contacts' photos
- vi. Your groups

■ Initial Sidebar View

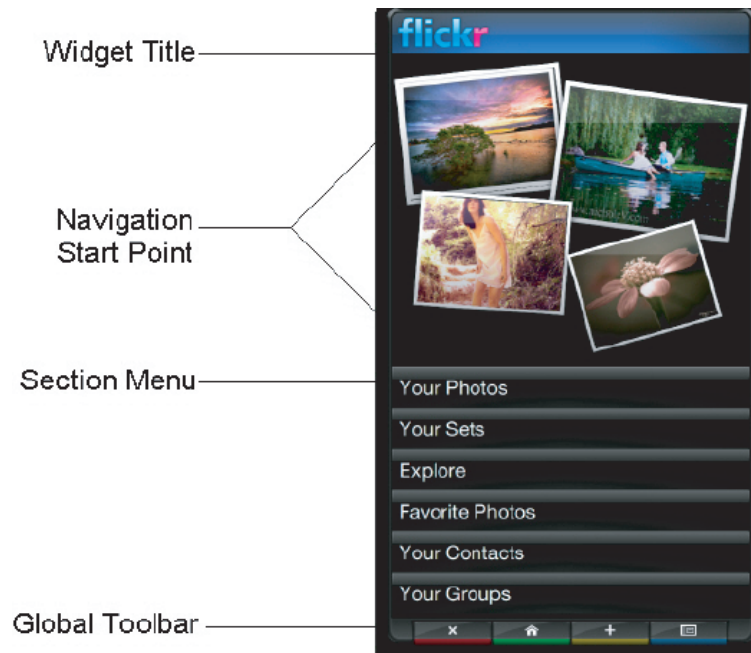


A. If the user is not signed and user is signed but user has no photo then the default images will be displayed from the Flickr Explore category.

B. If the user is signed in and the user has 1 photo or more photos, then the photos will be displayed in the top portion of the Widget Sidebar.

C. The picture layout changes based on the number of photos (1, 2, 3, or 4).

■ Initial Sidebar View

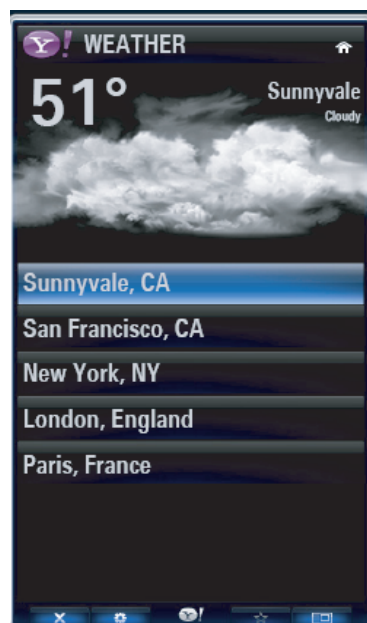


- A. If the user is not signed and user is signed but user has no photo then the default images will be displayed from the Flickr Explore category.
- B. If the user is signed in and the user has 1 photo or more photos, then the photos will be displayed in the top portion of the Widget Sidebar.
- C. The picture layout changes based on the number of photos (1, 2, 3, or 4).

2-3-7. Weather Widget

■ Overview

- A. The Weather Widget utilizes the “Tab View” layout of the Widget Sidebar
 - i. The tab view is a viewable area than contains groups of user interface elements organized under tab headers.
 - ii. The tab view does not have a page control. Using both tabs and page controls in the same view is prevented to avoid confusion.
 - iii. At the top of the tab view is the tab header.
 - iv. The tab header is designated by a row of slanted buttons, each containing a tab label.
 - v. A small portion of a slanted button is shown on the far right side of the tab header to indicate that more tabs exist but are not currently visible.
 - vi. The tab view uses a carousel design to navigate through each tab.
 - vii. This means if you navigate past the last tab in the list, the first tab is displayed again, and the list starts over.
 - viii. You never reach the end of the tab list.
 - ix. As you navigate through the tabs by pressing the RIGHT or LEFT ARROWS on the remote control, you will see all tab headers in the tab carousel before it starts to repeat.
 - x. The number of tab headers that can be visible depends on each label and the space allotted.
 - xi. It is recommended that at least two tabs be visible on the initial tab header.



2-3-8. Finance Widget

■ Overview

- A. Yahoo! Finance Icon is displayed on first time use
- B. Snippet will include default set of stock indicators if the user is not logged in nor selected stocks tickers to track then the following information will be displayed in the snippet
- C. The snippet will only display status of one stock symbol at a time
- D. The snippet will display the stock symbol, current value, percentage gain/loss, and point gain/loss

2-3-9. News Widget

■ Overview

- A. The News Widget sidebar will then be displayed
- B. Several stories will be displayed in the top featured area of the Widget
 - i. Navigation will be available to move from one story to the next
 - ii. These stories are automatically updated by Yahoo!
 - iii. The feature sections will navigate left and right
 - iv. Current page number and total pages will be displayed

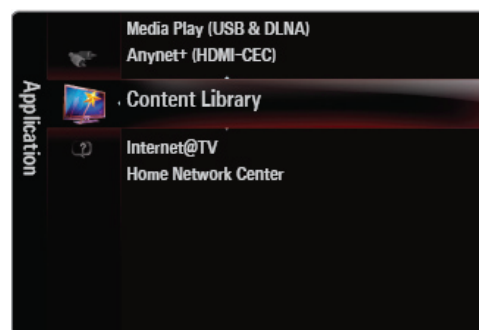


2-4. Using the Content Library

The Content Library allows you to enjoy various content on your TV. You can use the default content stored in the TV memory or you can enjoy new content using a USB device or via the Internet.

Using the Content Library Menu

1. Press the MENU button. Press the ▲ or ▼ button to select Application, then press the ENTER button.
2. Press the ▲ or ▼ button to select Content Library, then press the ENTER button.
- The Content Library main menu is displayed.
3. Press the ◀ or ▶ button to select an icon (Gallery, Cooking, Game, Children, Wellness, Other, Content Management), then press the ENTER button.



Using the Remote Control Button in Content Library Menu

Button	Operations
▲/▼/◀/▶	Move the cursor and select an item.
ENTER	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the Content Library main menu.
▼ CH ▲	Stop Content Library mode and Returns to TV mode.
Color button	Keys that provide functions are described on the corresponding page.
– VOL + / MUTE	You can control the volume of the played content.

2-5. Using the TV Memory Contents

You can use the default content stored in the TV memory.

You can add/delete the content of the TV memory. To delete/add content, select Content Management.

- To return to Content Library main menu, press the EXIT button

Gallery

This function plays a SlideShow with high resolution images and background music and produces various atmospheres. Using the Gallery function of the TV, you can change your home atmosphere.

- The copyrights of the Gallery contents and all issues related to them are reserved by Gallery Player, Inc.
- Press the ENTER button to pause the SlideShow, and also press the ENTER button to resume the SlideShow.
- Press the INFO button to display the information on the selected photo. (This is not displayed if the photo has no information.)



Cooking

You can view various recipes that you can then easily follow step by step. Enjoy these contents which give you great ideas for meals.

- The recipes introduced in the Cooking contents on the Samsung TV are based on recipes published by Anness Publishing.
- The copyrights of the Cooking contents and all issues related to them are reserved by Practical Pictures.

Game

This category provides entertainment games for the whole family.

- For the buttons used in the games, refer to the directions on the screen.
- Color Buttons for Games

Button	Operations
Red	Press to move to the game home screen
Green	Press to pause the game
Yellow	Option Key
Blue	Press to exit the game

Children

This is educational and interactive content that children can watch repeatedly.

- The copyrights of the Children contents and issues related to them reserved by UpToTen.

Wellness

This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family.

- The Basic Stretches contents are automatically played so that you can easily follow the movements on the screen.
To move to the previous or next operation, press the ◀ or ▶ button to view the required step. The selected item is displayed on the screen.

Others

The default content is not saved in the TV memory.

- You can copy new content to the TV memory using the Content Management screen.

2-6. Using the Content Management

Content Management

You can select multiple content items by selecting content items repeatedly and pressing the Yellow button.

My Contents

You can check the content saved in the TV memory for each subitem of the Content Library.

- Select a content item and press the ENTER button.

You can play or delete the selected content item.

USB

You can check the content saved on the USB device for each subitem of the Content Library.

Select a content item and press the ENTER button.

You can play the selected content item or copy it to the TV memory.

- "Content Library 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.)

- Playing a game using an external USB memory device will allow you to save your game (depending on the game). Take care as removing the USB memory device while saving data to the USB memory device may cause the data to be lost.

- Downloading New Contents

New content other than the built-in contents will be provided via the Samsung.com website with or without charge.

Downloading Content

1. Visit the www.samsung.com website and open the Content Library page.
2. Enter the product number (UDN, Unique Device Number).
3. Select a content item in the Contents Download page.
4. Download the contents onto the USB memory device.
5. Go to Content Library main menu by pressing Contents button or choosing Content Library (Menu → Application → Content Library).
6. Plug the USB memory into USB port on the side of the TV.

Finding a product number (Unique Device Number, UDN)

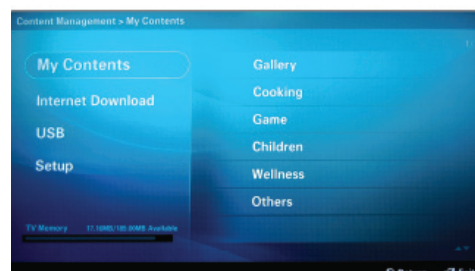
1. Insert the USB memory into the USB port on the side of the TV.
2. In the USB Browser main screen, press the Green button (Show UDN).
3. The 18-digit number on the screen is the product code.

Provided Content

Additional contents are available on www.samsung.com

Setup

- Screen Saver Run Time: Sets the time when the screen saver is run.
- Save UDN: Saves the UDN number to a USB device.

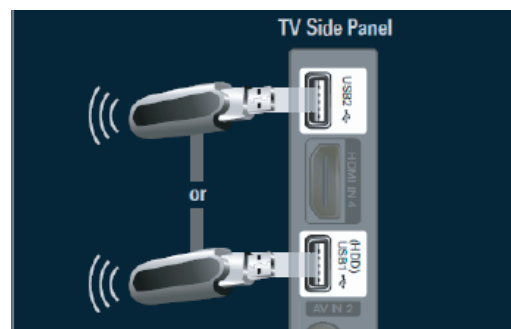


2-7. Media Play

2-7-1 Using the Media Play 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 usb jack (USB jack) on the side of the TV.
 - (If you enter the Media Play 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 MEDIA.P button on the remote control and enter the MEDIA.P screen again.
 - MTP (Media Transfer Protocol) is not supported.
 - The file system only supports FAT16/32 (The NTFS file system is supported).
 - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
 - Media Play 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.



-. movie format

File Extention	Container	Video Decoder	Resolution	Audio codec
*.avi	AVI	Divx 3.11/4.x/5.1/6.0	720 x 576	MP3 AC3 LPCM ADPCM
		XviD	1920 x 1080	
		H.264 BP/MP/HP	1920 x 1080	
		MPEG4 SP/ASP	1920 x 1080	
		Motion JPEG	800 x 600	
*.mkv	MKV	Divx 3.11/4.x/5.1/6.0	720 x 576	MP3 AC3 LPCM ADPCM
		XviD	1920 x 1080	
		H.264 BP/MP/HP	1920 x 1080	
		MPEG4 SP/ASP	1920 x 1080	
		Motion JPEG	800 x 600	
*.asf	ASF	Divx 3.11/4.x/5.1/6.0	720 x 576	MP3 AC3 LPCM ADPCM WMA
		XviD	1920 x 1080	
		H.264 BP/MP/HP	1920 x 1080	
		MPEG4 SP/ASP	1920 x 1080	
		Motion JPEG	800 x 600	
*.wmv	WMV	VC1	1920 x 1080	WMA
*.mp4	MP4 (SMP4)	H.264 BP/MP/HP	1920 x 1080	MP3 ADPCM AAC
		MPEG4 SP/ASP	1920 x 1080	
		XVID	1920 x 1080	
*.3gp	3GPP	H.264 BP/MP/HP	1920 x 1080	ADPCM AAC
		MPEG4 SP/ASP	1920 x 1080	
*.vro	VRO VOB	MPEG2	1920 x 1080	AC3, MPEG, LPCM
		MPEG1	1920 x 1080	
*.mpg *.mpeg	PS	MPEG2	1920 x 1080	AC3, MPEG, LPCM
		MPEG1	1920 x 1080	
*.ts *.tp *.trp	TS	MPEG2	1920 x 1080	AAC MP3
		H.264	1920 x 1080	
		VC1	1920 x 1080	

Support up to MPEG4 GMC 1 Wrapping Point

Support up to H.264 Level 4.0

Support HE-AAC in MP4, 3GPP and TS for DVB and ISDB-T model

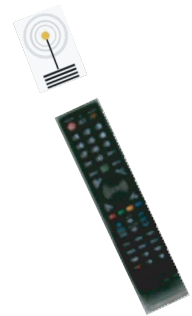
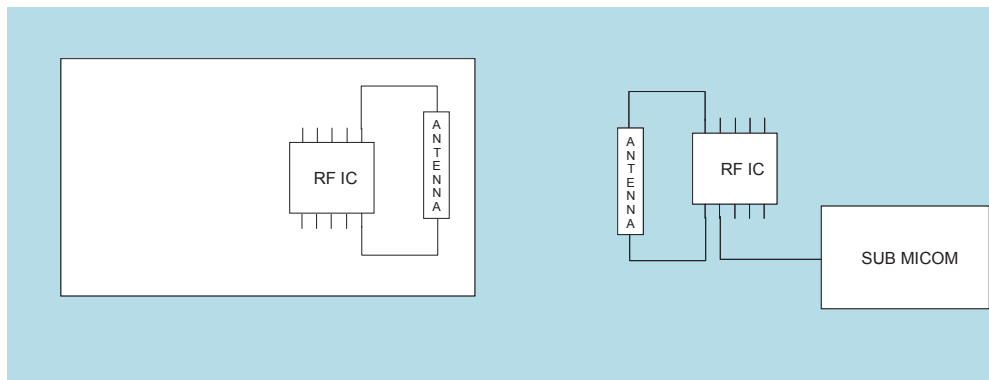
RF remocon

Non-directional RF Remote Controller.

- Frequency Range : 2.4 GHz~2.5GHz
- Bandwidth : 5MHz (16 channels)
- Using Channel : 3Channel(2425MHz, 2450MHz, 2475MHz)
- SPEC : based on 802.15.4
- Need Pairing to Use



RF Remote Controller



Front Module (TV Side)



Front Module PCB



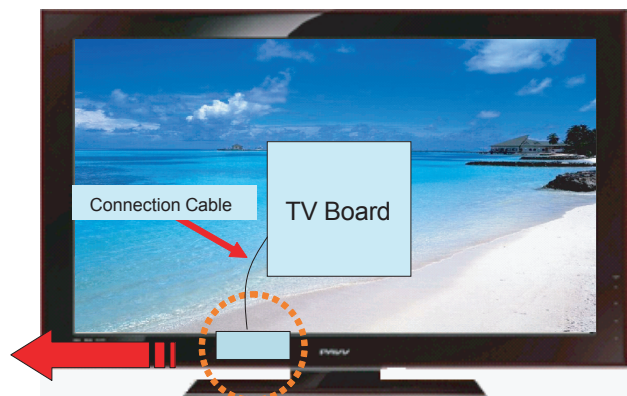
Front Module with Case
(Front side)



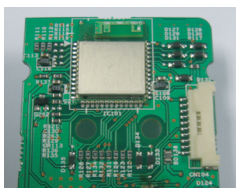
Front Module
Connected Cable



Front Module with Case
(Rear side)



RF Remote Controller



Remote Controller PCB



AutoPairing

What is Pairing?

A process that enables two-way communication between the TV and the remote control when their MAC addresses match after the TV saved the MAC address of the remote control and vice versa.

Problems with the Existing Pairing Method

- Users had difficulty in pairing the RF remote control.

<Existing Pairing Method>

1. The Pairing button on the RF remote control is pressed.
2. The TV set is reset. (Power Off → Power On)
3. Pairing is completed.

What is Auto Pairing?

An automatic pairing method that completes the pairing of the TV and the remote control internally without user intervention when a user operates the remote control after purchasing a TV with a RF remote control.

※ When the Auto Pairing function is used in a shop, Pairing with a TV may fail.
Therefore, in this case, Pairing should be completed using the existing method.

The Auto Pairing is a simplified pairing method for customer convenience.

Auto Pairing Method

1. When the TV is turned off (Standby mode)

(For models for European countries: numeric and CH +/- keys included)

→ The remote control enters Pairing Mode.

(The Power command is sent through the "Broadcasting Signal (refer to the Appendix)".

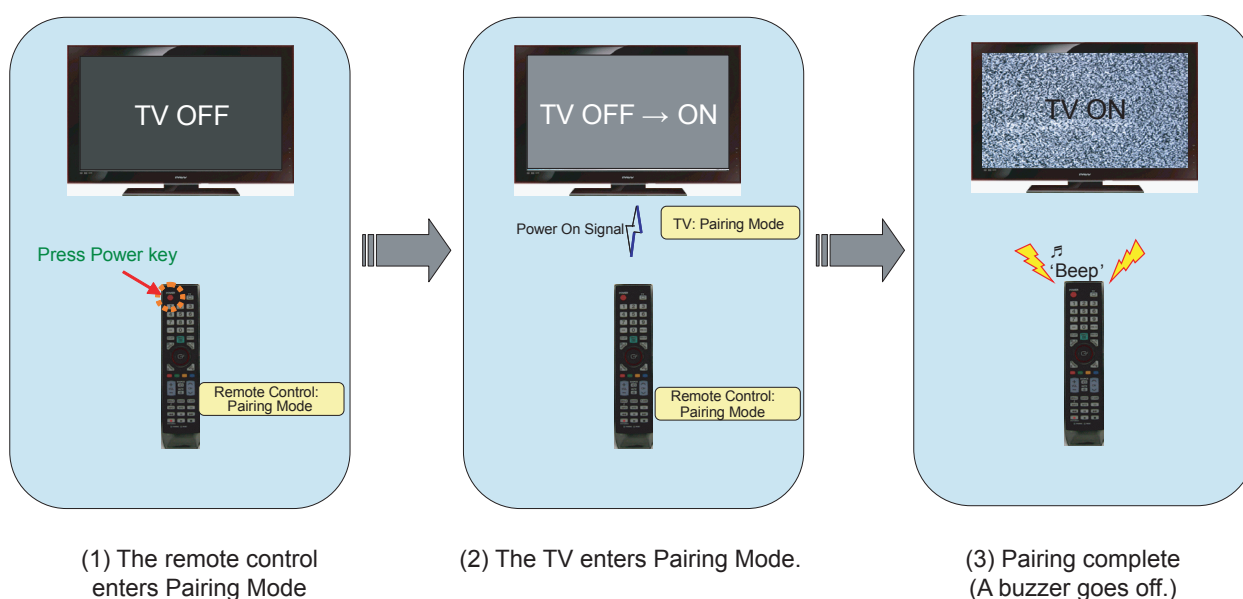
The TV is turned on or off accordingly.)

- 2) The TV that receives the Power command is turned on.

→ The TV enters Pairing Mode. (Pairing Mode is maintained until Pairing is complete.)

- 3) Pairing Mode is completed.

→ A 'Beep' goes off.



2. When the TV is turned on (When powered on using the Function key.)

1) Press any key on the RF remote control.

→ The remote control enters Pairing Mode.

(After pairing is complete, the key pressed by the user transmits the corresponding command to the TV.)

※ The customer cannot recognize the internal pairing operation.

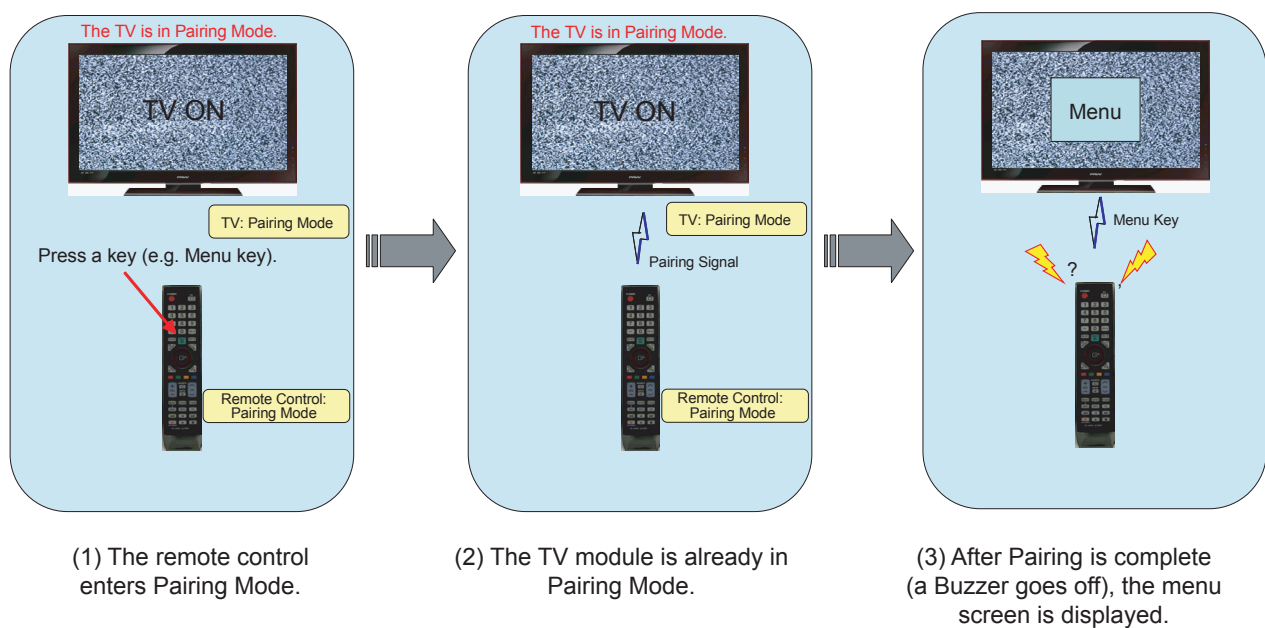
: The time taken to complete the pairing and to send the command is less than 1 second.

2) The TV is already in Pairing Mode.

→ A TV, the pairing of which is not completed, remains in Pairing Mode while the TV is turned on.

3) Pairing Mode is completed.

→ A 'Beep' goes off.



General Pairing

You can pair the TV and the remote control so that the remote control only controls the TV

1. Plug the TV power plug into the power outlet.
Turn the TV power switch off.}
2. Press the PAIRING on the remote control button.
Use a sharp object to press the button.
Keep a distance of less than 1m between the TV and the remote control
3. Press the POWER button on the front panel of the TV. The TV is turned on and Pairing with the remote control is automatically completed.
4. Press the remote control buttons to check if the remote control is properly paired.
If the remote control does not work, attempt the pairing process again.
If the remote control does not work even after the above measures have been taken, press the RESET button, and replace the batteries.



Finding the Remote Control

1. Press the Volume(-) button on the front panel of the TV and hold it down for 10 seconds.
The TV will transmit a signal to find the remote control.
2. The remote control will generate an alarm sound for 30 seconds. Search for the remote control from the location where the sound is heard the loudest. If no sound is heard, please try again.
3. If the remote control has been found, press any remote control button to stop the sound.

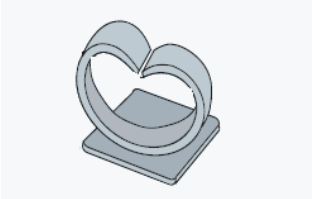
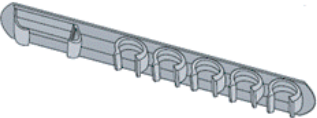


2-8. Spec Comparison to the Old Models

Model	UB8X (UN46B8000XF/UN55B8000XF)	SAPPHIRE (LN46A850S1F/LN52A850S1F)
Design		
Display Type	LCD TV	LCD TV
Resolution	1920 x 1080	1920 x 1080
LCD Panel	TFT LCD Panel 240Hz	TFT LCD Panel 120Hz
Screen Size	46" / 55"	46" / 52"
Picture ratio	16 : 9	16 : 9
Dimensions (W x H x D)	46 44.5 x 10.9 x 29.8 inches (1131 x 277 x 757 mm)_with stand 44.5 x 1.17 x 27 inches (1131 x 29.9 x 688 mm)_without stand 55 52 x 12 x 33.85 inches (1322 x 307 x 860 mm)_with stand 52 x 1.177 x 31.37 inches (1322 x 29.9 x 797 mm)_without stand	46 44.05 x 11.14 x 29.33 inches _with stand 44.05 x 1.74 x 27.26 inches _without stand 52 49.72 x 12.36 x 32.74 inches _with stand 49.72 x 1.74 x 30.68 inches _without stand
Weight	46 50.26lbs (22.8kg)_with stand 38.68lbs(18kg)_without stand 55 63.93lbs (29kg)_with stand 51.14lbs(23.2kg)_without stand	46 54.01 lbs(24.5kg)_with stand 45.19 lbs(20.5kg)_without stand 52 68.78 lbs (31.2kg)_with stand 59.08 lbs (26.8kg)_without stand
Brightness	500 cd ² /m	500 cd ² /m
Contrast Ratio	5000000:1	50000:1
Picture Enhacer	DNle+(FBE3)	DNle+(FBE3)
Equalizer	5 Band	5 Band
Auto Motion Plus 120Hz	YES	YES
Surround Sound	TruSurround HD	TruSurround XT
Speaker Output	10W + 10W (46") 15W + 15W(55")	10W + 10W
Antenna	1 (Cable/Air)	1 (Cable/Air)

2-9. Accessories

Product	Description	Code. No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00849A	Supplied Accessories
	Simple Remote Control	BN59-00788B	
	Cover-Bottom	BN63-05654A	
	Warranty Card / Registration Card / Safety Guide Manual (Not available in all location)	BP68-00263D	
	Cleaning Cloth	BN63-01798B	
	Program CD	BN59-00726D	
	USB	BN96-10011E	
	Stand Screw(M4*L10)	6003-00337 (UN40B7000, UN46B7000)	
	Holder-Ring(4ea)	BN61-05280A	
	Holder-Wire Cable	BN61-05596A	
	TV-Holder & Screw(M8*L19)	BN96-10788B	

Product	Description	Code. No	Remark
	Holder wire	BN61-05373A	Supplied Accessories
	Holder wire stand (3EA)	BN61-05491A	