

2. Product Specifications

2-1. Product information

Model	UN**F6400AG		
Front View	 * W : Width H : High D : Depth		
Detail View			
Front Color	Clear / Black		
Dimensions (W x H x D)	40"	Set with Stand	928.2 x 617.3 x 264.8 mm
		Set without Stand	928.2 x 513.8 x 49.6 mm
	46"	Set with Stand	1059.8 x 704.6 x 306.9 mm
		Set without Stand	1059.8 x 617.7 x 49.6 mm
	55"	Set with Stand	1250.4 x 808.4 x 306.9 mm
		Set without Stand	1250.4 x 724.6 x 48.8 mm
	60"	Set with Stand	1371.7 x 881.3 x 375.3 mm
		Set without Stand	1371.7 x 793.3 x 49.4 mm
Weight	40"	Set with Stand	10.4 kg
		Set without Stand	9.3 kg
	46"	Set with Stand	13.5 kg
		Set without Stand	11.8 kg
	55"	Set with Stand	17.0 kg
		Set without Stand	18.7 kg
	60"	Set with Stand	22.8 kg
		Set without Stand	25.6 kg
Panel Type	Black		
Internal Memory	4 G		
DDR	1 G		
Feature	3D / SMART GUIDE / USB HID / DLNA / Full Browsing / Miracast / Smart Interaction		

2. Product specifications

Model	UN75F6400AG		
Front View	 * W : Width H : High D : Depth		
Detail View			
Front Color	Clear / Black		
Dimensions (W x H x D)	75"	Set with Stand	1678.6 x 1034.3 x 352.7 mm / 66.09 x 40.72 x 13.89 inches
		Set without Stand	1678.6 x 960.1 x 55.8 mm / 66.09 x 37.80 x 2.20 inches
Weight	75"	Set with Stand	29.6 kg / 65.26 lbs
		Set without Stand	28.3 kg / 62.39 lbs
Panel Type	Black		
Internal Memory	4 G		
DDR	1 G		
Feature	3D / SMART GUIDE / USB HID / DLNA / Full Browsing / Miracast		

2-2. Product specification

2-2-1. Detailed Specifications

Item		UN**F6400AGXZD
General Information	Product	LED
	Series	6
Display	Inch	40" / 46" / 55" / 60" / 75"
	Resolution	1,920 x 1,080
	Ultra Clear Panel	No
	Lvds Format	JEIDA
Video	Clear Motion Rate	480
	Micro Dimming	Micro Dimming
	Precision Black (Local Dimming)	No
	Picture Engine	3D HyperReal Engine
	Dynamic Contrast Ratio	Mega Contrast
	Motion Judder Canceller	N/A
	Wide Color Enhancer (Plus)	Yes
	Auto Motion Plus 120/240Hz	120Hz
	Film Mode	Yes
	Natural Mode Support	Yes
Audio	3D Sound	Yes
	Sound Output (RMS)	10W x 2 15W x 2 (75")
	Dolby	Dolby Digital Plus / Dolby Pulse
	SRS / DNSe+	DTS Studio Sound
	dts 2.0 + Digital Out / DTS Premium Audio	DTS Premium Audio 5.1
	Speaker Type	Down Firing + Full Range
	Sound Customizer	No
	Woofer	No
Smart TV 2.0	Smart Hub	Yes
	On TV	No
	Movies & TV Shows	No
	Apps	Yes
	Social	Yes
	Photos, Videos & Music	Yes
	Family Story	No
	Fitness	Yes
	Kids	Yes
	ACR (Advertisement)	N/A
	Samsung Sports Experience (SSE)	N/A

2. Product specifications

Item		UN**F6400AGXZD
Smart TV 2.0	Samsung SMART View	Yes (Clone View only)
	Intelligent Viewing	No
	Smart Appliance	N/A
	S Recommendation	No
	Prism Screen	No
	Web Browser	Yes
Smart Interaction 2.0	Camera Built-in	No
	Face recognition	Ready
	Motion control	Ready
	Voice Control (Embedded)	No
	Voice Control (Server)	No
	Voice Interaction	No
	Camera App	No
	Samsung TV Apps supported	Yes
System	DTV Tuner	ISDB-T
	Analog Tuner	Yes (Trinorma)
	MHP / MHEG (version)/ ACAP / GINGA	GINGA
Input & Output	Audio Out (Mini Jack)	1
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1 (Common Use for Component Y)
	Digital Audio Out (Optical)	1
	DVI Audio In (Mini Jack)	No
	Ethernet (LAN)	1
	HDMI	4
	PC Audio In (Mini Jack)	No
	PC In (D-sub)	No
	RF In (Terrestrial/Cable Input)	2
	RF In (Satellite Input)	No
	RS-232C (AV CONTROL)	No
	USB	3
	Headphone	No
	IR Out	1
Design	Design	ToC
	Slim Type	Slim 1
	Bezel Type	VNB
	Front Color	Black
	Light Effect (Deco)	No
	Swivel (Left/Right)	No

Item		UN**F6400AGXZD
Design	Stand Type	4 LEGS
		Y Stand Type (only for 75")
	Push & Pull Camera	N/A
Feature	3D Converter	Yes
	ConnectShare™ (USB 2.0)	Movie
	Samsung 3D	Yes
	History	Yes
	MultiTasking	N/A
	Smart Evolution Support	No
	Wireless LAN Built-in	Yes
	Wireless LAN Adapter Support	No
	OSD Language	Portuguese, Spanish, English
	EPG	Yes
	HDMI 1.4 3D Auto Setting	Yes
	HDMI 1.4 A/Return Ch. Support	Yes
	Time Shift	Yes
	AllShare (Content Sharing, Screen Mirroring)	Yes
	Teletext (TTXT)	No
	User Interface	Golden Bridge
	InstaPort S (HDMI quick switch)	No
	Anynet+ (HDMI-CEC)	Yes
	Auto Channel Search	Yes
	Auto Power Off	Yes
	Auto Volume Leveler	Yes
	Caption (Subtitle)	Yes
	Clock&On/Off Timer	Yes
	Game Mode	Yes
	Sports Mode	Advanced
	Kids Lock	N/A
	Picture-In-Picture	Yes
	Sleep Timer	Yes
	Extended PVR	Yes
	Smart Phone Remote support	Yes
	WiFi Direct	Yes
	ISP Bound Service	No
	BT HID Built-in	Yes
	USB HID Support	Yes
	Network Speaker Support	N/A

2. Product specifications

Item		UN**F6400AGXZD
Feature	Sound Share	Yes
	Regional EQ	N/A
	Digital Clean View	Yes
	Analog Clean View	Yes
	MHL	No
	Twin Tuner	No
	BD Wise Plus	Yes
	USB Copy	N/A
	ACS	N/A
	IP Video Closed Caption	N/A
	Embedded POP	Yes
Accessory	3D Active Glasses (Included)	2 (SSG-5100GB)
	IR Extender Cable (Included)	Yes (Premium)
	Wireless LAN Adaptor (Included)	No
	Network Speaker (Included)	No
	MoIP Camera	No
	Wireless Keyboard	No
	Remote Controller Model	TM1250A
	Batteries (for Remote Control)	Yes
	Ultra Slim Wall Mount Supported	No
	Mini Wall Mount Supported	Yes
	Vesa Wall Mount Supported	Yes
	Slim Gender Cable	No
	Power Cable	Yes
	ANT-Cable	No
	User Manual	Yes
	E-Manual	Yes

2-2-2. Feature & Specifications

Model	UN40F6400AG
Feature	
- Digital-TV, RF, 4-HDMI, 1-Component, 1-A/V (Common Use for Component Y), 3-USB2.0 (Media Play), LAN, Wi-Fi - PIP(in HDMI 1, 2, 3, 4 Component and Sub picture is available only in TV mode (DTV/ATV)) - CMR (Clear Motion Rate) : 480 - Dolby Digital Plus Pulse, DTS Premium Sound 5.1, DTS Studio Sound	
Specifications	
Item	Description
LCD Panel	40 inch FHD 120 Hz
Display Colors	1.07 B
Active Display (H x V)* * Horizontal x Vertical	885.6 (H) x 498.15 (V) mm
Input Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 Ω , internally terminated
Input Signal Frequency	Horizontal : 31~80 kHz Vertical : 56 ~ 75 Hz
Input Sync Signal	H/V Separate, TTL, P. or N.
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels
Maximum Pixel Clock Rate	138 MHz
AC Power Voltage & Frequency	AC100-240V 50/60Hz
Power Consumption	126 W (Under 0.1 W, Stand by)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing
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 : AllShare, SMART Guide, Web Browser, USB HID, IR Blaster, Smart Control	

2. Product specifications

Model	UN46F6400AG
Feature	
- Digital-TV, RF, 4-HDMI, 1-Component, 1-A/V (Common Use for Component Y), 3-USB2.0 (Media Play), LAN, Wi-Fi - PIP(in HDMI 1, 2, 3, 4 Component and Sub picture is available only in TV mode (DTV/ATV)) - CMR (Clear Motion Rate) : 480 - Dolby Digital Plus Pulse, DTS Premium Sound 5.1, DTS Studio Sound	
Specifications	
Item	Description
LCD Panel	46 inch FHD 120 Hz
Display Colors	1.07 B
Active Display (H x V)* * Horizontal x Vertical	1018.08 (H) x 572.67 (V) mm
Input Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 Ω , internally terminated
Input Signal Frequency	Horizontal : 31~80 kHz Vertical : 56 ~ 75 Hz
Input Sync Signal	H/V Separate, TTL, P. or N.
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels
Maximum Pixel Clock Rate	138 MHz
AC Power Voltage & Frequency	AC100-240V 50/60Hz
Power Consumption	131 W (Under 0.1 W, Stand by)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing
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 : AllShare, SMART Guide, Web Browser, USB HID, IR Blaster, Smart Control	

Model	UN55F6400AG
Feature	
- Digital-TV, RF, 4-HDMI, 1-Component, 1-A/V (Common Use for Component Y), 3-USB2.0 (Media Play), LAN, Wi-Fi - PIP(in HDMI 1, 2, 3, 4 Component and Sub picture is available only in TV mode (DTV/ATV)) - CMR (Clear Motion Rate) : 480 - Dolby Digital Plus Pulse, DTS Premium Sound 5.1, DTS Studio Sound	
Specifications	
Item	Description
LCD Panel	55 inch FHD 120 Hz
Display Colors	1.07 B
Active Display (H x V)* * Horizontal x Vertical	1209.6 (H) x 680.4 (V) mm
Input Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 Ω , internally terminated
Input Signal Frequency	Horizontal : 31~80 kHz Vertical : 56 ~ 75 Hz
Input Sync Signal	H/V Separate, TTL, P. or N.
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels
Maximum Pixel Clock Rate	138 MHz
AC Power Voltage & Frequency	AC100-240V 50/60Hz
Power Consumption	153 W (Under 0.1 W, Stand by)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing
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 : AllShare, SMART Guide, Web Browser, USB HID, IR Blaster, Smart Control	

2. Product specifications

Model	UN60F6400AG
Feature	
- Digital-TV, RF, 4-HDMI, 1-Component, 1-A/V (Common Use for Component Y), 3-USB2.0 (Media Play), LAN, Wi-Fi - PIP(in HDMI 1, 2, 3, 4 Component and Sub picture is available only in TV mode (DTV/ATV)) - CMR (Clear Motion Rate) : 480 - Dolby Digital Plus Pulse, DTS Premium Sound 5.1, DTS Studio Sound	
Specifications	
Item	Description
LCD Panel	60 inch FHD 120 Hz
Display Colors	1.07 B
Active Display (H x V)* * Horizontal x Vertical	1329.12 (H) x 747.63 (V) mm
Input Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 Ω , internally terminated
Input Signal Frequency	Horizontal : 31~80 kHz Vertical : 56 ~ 75 Hz
Input Sync Signal	H/V Separate, TTL, P. or N.
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels
Maximum Pixel Clock Rate	138 MHz
AC Power Voltage & Frequency	AC100-240V 50/60Hz
Power Consumption	190 W (Under 0.1 W, Stand by)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing
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 : AllShare, SMART Guide, Web Browser, USB HID, IR Blaster, Smart Control	

Model	UN75F6400AG
Feature	
- Digital-TV, RF, 4-HDMI, 1-Component, 1-A/V (Common Use for Component Y), 3-USB2.0 (Media Play), LAN, Wi-Fi - PIP(in HDMI 1, 2, 3, 4 Component and Sub picture is available only in TV mode (DTV/ATV)) - CMR (Clear Motion Rate) : 480 - Dolby Digital Plus Pulse, DTS Premium Sound 5.1, DTS Studio Sound	
Specifications	
Item	Description
LCD Panel	75 inch FHD 120 Hz
Display Colors	1.07 B
Active Display (H x V)* * Horizontal x Vertical	1650.24 (H) x 928.26 (V) mm
Input Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 Ω , internally terminated
Input Signal Frequency	Horizontal : 31~80 kHz Vertical : 56 ~ 75 Hz
Input Sync Signal	H/V Separate, TTL, P. or N.
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1080 Pixels
Maximum Pixel Clock Rate	138 MHz
AC Power Voltage & Frequency	AC100-240V 50/60Hz
Power Consumption	309 W (Under 0.1 W, Stand by)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10% ~ 80%, non-condensing Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5% ~ 95%, non-condensing
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 : AllShare, SMART Guide, Web Browser, USB HID, IR Blaster, Smart Control	

2-3. Accessories



NOTE

- Please make sure the following items are included with your TV. If any items are missing, contact your dealer.
- The items' colors and shapes may vary depending on the model.
- Check that there is no accessory hidden behind packing materials when you open the box.

Product	Code. No	Product	Code. No
• Remote Control	AA59-00808A	• Samsung 3D Active Glasses	BN96-25614A
• Batteries (AAA x 2)	4301-000121	• User Manual	BN68-04805C
• Power Cord	3903-000851	• Quick Setup Guide	60" ↓ BN68-05117L
			75" BN68-05117P

Image	Product	Code. No
	• Holder-Wire stand	BN61-08370A
	• Holder-Ring	BN61-07295A
	• IR Extender Cable	BN96-26652*

2-4. Viewing the Functions

2-4-1. Auto Motion Plus 120 Hz

■ Function Naming

- 120 Hz FRC + MJC : Auto Motion Plus 120 Hz

■ Detail Specifications

Function (OSD)	120 Hz FRC	Judder reduction (only 24p source)	Blur reduction
Off	Off (repeat)	Off	Off
Clear	ON (interpolation)	Off	High
Standard	ON (interpolation)	Medium	Medium
Smooth	ON (interpolation)	High	High
Custom	Level variable (0~10)		
Demo	Demo (Standard / Off)		

■ 120Hz Motion Enhancement



Off



Low / Medium / High



Demo

2-4-2. Supported Formats

■ Supported Subtitle Formats

External

Name	File Extension
MPEG-4 Timed text	Timed text .txt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

Internal

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
MPEG-4 Timed text	MP4

■ Supported image resolutions

File Extension	Type	Resolution
*.jpg, *.jpeg	JPEG	15360 x 8640
*.png	PNG	4096 x 4096
*.bmp	BMP	4096 x 4096
*.mpo	MPO	15360 x 8640

■ Supported Music File Formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported. Supports up to M2 profile (except LBR mode)
*.wav	wav	wav	
*.mid , *.midi	midi	midi	type 0, type 1 are supported.
*.ape	ape	ape	

■ Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	Divx 3.11 / 4 / 5 / 6 MPEG4 SP/ASP H.264 BP/MP/HP Motion JPEG Microsoft MPEG-4 v3 Window Media Video v7,v8,v9 MPEG2 MPEG1 MVC VP6	1920 x 1080 640 x 480 1920 x 1080 (WMV v7, v8, MSMPEG4 v3: 1280x720) 640 x 480	6~30 24/25/30	30 8 30 60 4	AC3 LPCM ADPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3)
*.webm	WebM	VP8	1920 x1080	6~30	20	Vorbis

■ Other Restrictions

Codecs may not function properly if there is a problem with the content data.

Video content does not play or does not play correctly if there is an error in the content or container.

Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.

If the Index Table is wrong, the Seek (Jump) function does not work.

When playing video over a network connection, the video may not play smoothly because of data transmission speeds.

Some USB/digital camera devices may not be compatible with the player.

■ Video Decoders

- Supports up to H.264, Level 4.1 (does not support FMO/ASO/RS)
- VC1 AP L4 is not supported.
- All video codecs excluding WMV v7, v8, MSMPEG4 v3, MVC, and VP6:
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
- GMC is not supported.
- Supports SVAF top/bottom and left/right only.
- Supports Blu-ray/DVD MVC specs only.

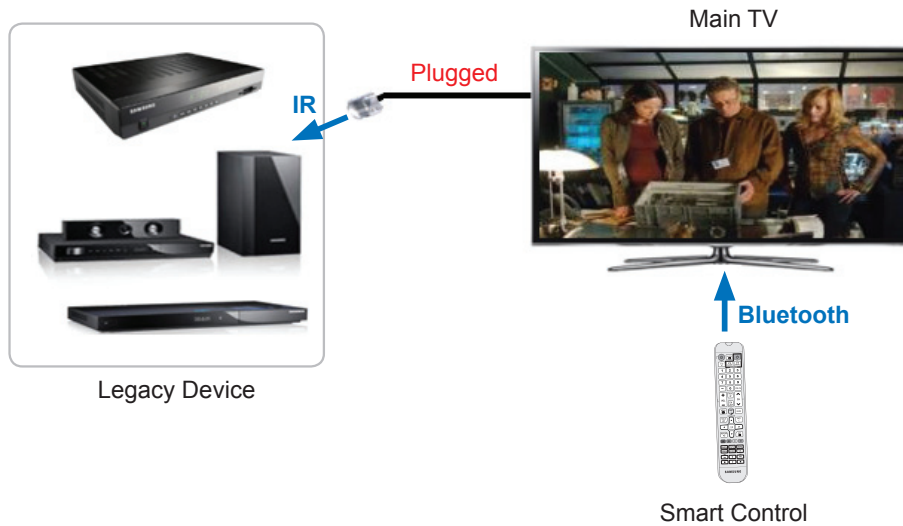
■ Audio Decoders

- WMA 10 Pro supports up to 5.1 channels. Supports up to M2 profile.
- WMA lossless audio is not supported.
- QCELP, AMR NB / WB is not supported.
- Vorbis is supported for up to 2 channels.
- DD+ is supported for up to 5.1 channels.

2-4-3. IR Blaster

■ Using wired IR Blaster

1. Push the Smart Control Key.
 - Key Data is transmitted to the TV.
2. Key Data is transmitted to the IR Blaster MCU.
 - Uart (the internal communication of TV)
3. External Device is operated.
 - IR Transmit . (IR blaster → Device)



2-4-4. SMART Interaction



NOTE

The camera is sold separately

This Smart TV is enabled with SMART Interaction, a facial- and movement-recognition feature that allows users to control the TV without the need for a remote control. To use SMART Interaction, you will need to purchase and install a separate camera. SMART Interaction makes it possible to configure settings and access features with ease. It takes approximately 15 seconds for motion recognition to come online after turning on the TV.

■ Face Recognition

This product saves thumbnail images of users' faces for use during the Face Login. Logging into the Smart Hub via face recognition may be less secure than logging in using an ID and password.

Users can register their faces and log into their Smart Hub accounts through Face Recognition. One face may be registered per account. Depending on the ambient brightness level and the user's skin tone, the TV may have difficulty recognizing the user's face.

- Face Registration

A Smart Hub login is required to register a face. Log into the Smart Hub. Create a new account if you do not already have one.

- Face Recognition Login

Select Face Recognition Mode from the login window. The TV automatically recognizes a user's face. If recognition fails, try again. If the password entry option has been enabled under Change account information, you need to enter your password as well in order to log into the Smart Hub.

■ TV Camera Use

Under some circumstances and under certain legal conditions, the use/misuse of the TV camera may result in legal liability. There may be obligations under local privacy laws regarding the protection of individuals concerning personal data and on the free movement of such data, and possibly other laws including criminal laws, regulating camera surveillance both in the workplace and elsewhere.

By using the TV camera, users agree that it will not be used (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

If you are using a camera, first check the back for a sticker. Remove the sticker cover before adjusting the TV camera angle. When you are no longer using the camera, rotate the lens downward and secure it in place. This prevents any inadvertent or unintentional camera operation.

■ Motion Control Environment Test

Screen Menu → Smart Features → Motion Control

Use Motion Control to change the channel, adjust the volume, move the pointer, and control other TV functions. Some applications may not support Motion Control.

Operating Environment

Users should be located between 1.5m and 4m from the camera. The actual recognition range may vary depending on the camera angle and other factors.

Motion Control relies on the TV camera and therefore will not function if the camera is pointed up or down. Adjust the camera to the correct angle. Do not point the camera directly at the sun or any other light source or obstruct its view.

In order for the camera to recognize movement, the user has to stand out from the background.

The appropriate ambient brightness is between 50 to 500 lux.

Avoid direct sunlight when using Motion Control.

Run Motion Control Environment Test before using Motion Control to determine the camera's recognition range.

Motion Control Environment Test

Screen Menu → Smart Features → Motion Control → Motion Control Environment Test

Run this test before using Motion Control to ensure proper functionality

1. Run Motion Control Environment Test and select Start within 4.9ft and 13.1ft of the TV. If light reflects on the TV
2. Adjust the camera angle so that you appear inside the square displayed on the screen. Once you have finished

Motion Control Options

Motion Control: Activates/deactivates Motion Control.

Animated Motion Guide: Displays an animated guide when user motion is detected.

Motion Control Activation

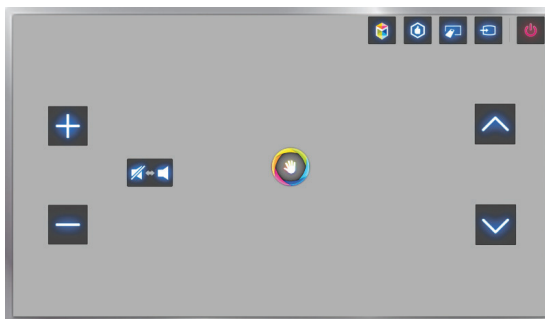
Raise your hand with the palm facing the TV. Hold it for a moment and slowly wave your arm and hand from side to side three or four times. When your hand is successfully recognized, the Motion Control is activated and an arrow cursor is displayed on the screen.

Using the Basic Motion Controls

The following basic motion control commands are available:

		
This action moves the cursor to the desired position.	Make a fist to select an option or execute a command. Keeping your fist clenched is like holding down a remote control button.	Make a circle with your hand in the counterclockwise direction to return to the previous menu.

Motion Control Screen



Screen Icons	Explanation
	Adjust the volume.
	Turns the TV sound on/off.
	Changes the channel.
	Launch Smart Hub.
	Check the recommended program information and air times. Select a program from the list to view detailed information about that program.
	Enter a channel number using the number panel to jump to the channel. Use the playback control panel with the on-screen color buttons to control a media file that is currently playing.
	Change the source.
	Turn off the TV.

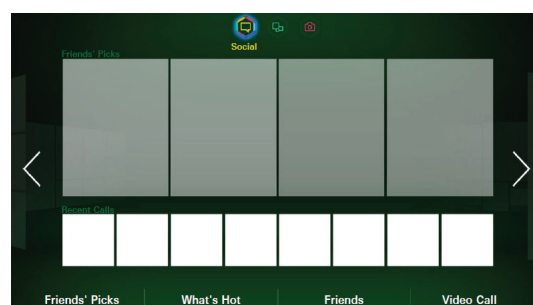
2-4-6. SMART HUB

This TV features Smart Hub, a multi-purpose entertainment and family center. With Smart Hub, users can surf the web, download applications, and stay in touch with family and friends through social networking services. In addition, you can enjoy photo, video, and music files stored on external storage devices.



Social

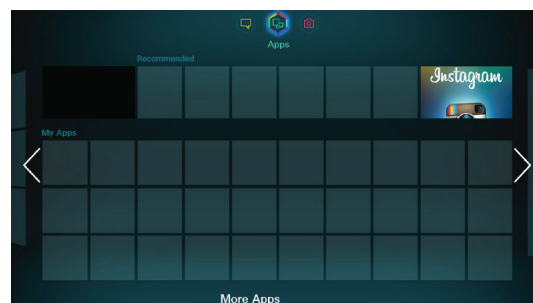
Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. You can also make video calls to friends by connecting the TV to a camera (sold separately).



Apps

Download and install applications such as WebBrowser and Family Tree.

Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV. First, check the network and make sure the TV is connected to the Internet. Your TV needs to be connected to the Internet in order to use Apps.



- **Samsung Apps**
Samsung Apps offers various free and paid news, sports, weather, and gaming applications. Samsung Apps lets you search for applications and install them directly on your TV. Read and agree to the terms and conditions of use and then browse through the categories or directly search for applications.
- **Fitness**
Fitness is an application that helps you stay fit. Create a profile, set up an exercise plan, and start exercising according to a structured regimen. Read and agree to the terms and conditions before using Fitness.
- **Kids**
This is a quick launcher and recommended list for applications and content that is suitable for children and even provides services not currently installed on your TV. Using Kids, you can download applications and content for your children to your TV. Certain services, however, are fee-based.
- **WebBrowser**
WebBrowser is a web-browsing application. Using WebBrowser, you can browse the Internet on your TV as you would on your computer and even watch TV while you surf the web. The browsing experience, however, may not be the same as it is on your computer. Use a keyboard and mouse for a more convenient web browsing experience.
- **Social Networks**
Share your thoughts and comments about a program on the air through social networking services. Social Networks

2. Product specifications

displays social network services such as Twitter, Facebook, Google Talk, and NateOn on a single screen. You can even post messages and comments in the same manner as you would using a computer. You must first link your Samsung account to the respective SNS accounts before you can access them using Social Networks.

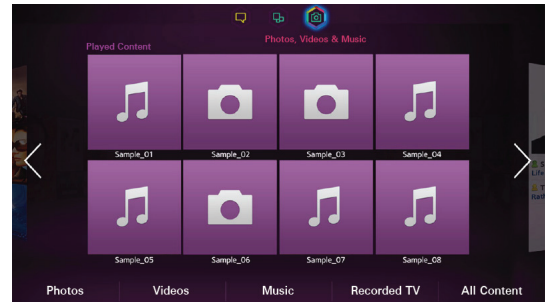
Photos, Videos & Music



Play back photo, video, and music files from an external storage device.

Open Smart Hub and select Photos, Videos & Music.

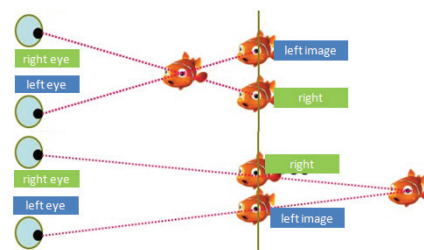
Enjoy photo, video and music files from an external storage device directly on your TV. Back up important files before connecting an external storage device to the TV. Samsung will not be held responsible for damaged or lost files.



2-4-5. 3D Display

■ What is 3D Display?

This mode is to enable users to view images on the TV/Monitor in 3D by receiving the video signal in 3D format from sources such as 3D games and titles. The human brain constructs a 3 dimensional image from the two images entering both eyes. The depth of a 3 dimensional images is determined by the horizontal difference between the images from both the left and right eyes. 3D is displayed two images alternately on screen equivalent to left and right at TV, and embodied by doing to see each relevant image in left eye and right eye through shutter glasses.



■ 3D Function of Model Series

LCD / LED / PDP TV			LED
Items	Sub Items		120 Hz
	Platform (Main)		X12
	Platform (FRC / Formatter)		Fox-FT1 (SDC) Fox-FT2 (AUO / CMI) Echo-Fs (Sharp 3D) NT7231 2 (Sharp 2D)
3D Feature	2D → 3D Conversion		O
	3D → 2D		O
	3D Perspective		O
	3D Depth		O
	Auto View (Auto Format Detection)		X
	3D Optimize		O
FRC Feature	Auto Motion Plus		O
3D Input Format	ATV / AV, PC	2D → 3D	O
		2D → 3D	O
	Component	SS, TB	O
		SS, TB	O
	HDMI	2D → 3D	O
		SS, TB	O
		FP 1080P 24 / 25 / 30 FP 720P 50 / 60 FP 1080i 50 / 60	O
		LL, VS, Check ker BD, FS	X
	HDMI (PC / DVI)	2D → 3D	O
		SS, TB	O
		MPO	O
		SVAF IES (SS, BT)	O
		MVC 1080P 24 / 25 / 30 MVC 720P 50 / 60 MVC 1080i 50 / 60 MVC 720P 24 / 25 / 30	O
		2D → 3D	O
	DTV	SS, TB	O
		DVB_Phase1 (SS, BT)	O
		ATSC_KR30	O
		2D → 3D	O

■ Supported 3D Resolutions

These specifications apply to a display ratio of 16:9 only.

- 3D Format: L/R, T/B

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

- 3D Format: Frame Packing

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30

- Component

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

- Digital Channel

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60

■ 3D Format Test

3D Format : There are several 3D formats existing on how to merge Left and Right images.

Format	Input images	Test Method
Frame Packin (HDMI 1.4)		Able to test only by HDMI 1.4 BD Player or MSPG-4600MT(Master Device)
Top & Bottom		Using Format_test.bmp • Check in the PC(HDMI) source. PC resolution and format resolution must be same • Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
Side by Side		Using Format_test.bmp • Check in the PC(HDMI) source. PC resolution and format resolution must be same • Wearing 3D glass, left eye sees only 'L' letter, right eye sees only 'R' letter (close your eyes one by one)
2D → 3D		Check in the normal 2D source. Check not in the test pattern but in the actual video. • Left/Right black region will grow more and more as the depth goes higher.