

## 2. Product Specification

### 2-1 Product Feature

#### ■ Features

Block	Specification	Major IC
RF	Analog Tuner	Latin America - DTVS20CVL081A Asia - DTOS40CVL081A
PDP Module	Samsung SDI U2P Module	42"HD/50"HD
Power	Samsung/Dong-yang electro mechanics SMPS	
Video	AV MULTI HDMI Component, PC	Trident_SX1
Sound	Dolby Digital	Trident_SX1
Cabinet	C450 Design	

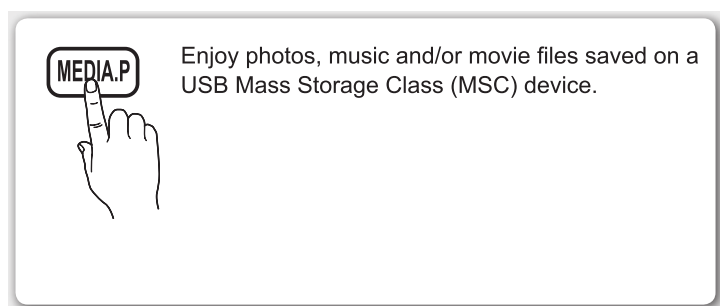
## ■ Specification

Model	PL42C45X PS42C45X	PL50C45X PS50C45X
Dimensions (WxHxD)	1055 x 660 x 74 mm (without stand) 1055.5 x 721 x 316 mm (with stand)	1220.8 x 748.8 x 74 mm (without stand) 1220.8 x 810 x 316 mm (with stand)
Weight	24.1 Kg (without stand) 27.8 Kg (with stand)	31.3 Kg (without stand) 35.0 Kg (with stand)
Voltage	AC 100~240V, 60Hz, 550W	
PC Resolution	1024 x 768 @ 60Hz	1360 x 768 @ 60Hz
Screen Size	42 inches (16:9)	50 inches (16:9)
ANTENNA Input	ANT - AIR IN 75Ω unbalanced	
VIDEO Input	AV1, AV2 COMPONENT1 - 480i/480p/720p/1080i/1080p COMPONENT2 - 480i/480p/720p/1080i/1080p PC HDMI1(DVI Compatible) : 480p/720p/1080i/1080p HDMI2 - 480p/720p/1080i/1080p HDMI3(SIDE AV) - 480p/720p/1080i/1080p * 480i can be displayed on HDMI, however it is not contained in EDID data	
AUDIO Input	AV1, AV2 COMPONENT1 - 480i/480p/720p/1080i/1080p COMPONENT2 - 480i/480p/720p/1080i/1080p PC & DVI	
Audio Output	AUDIO (L/R)	
Speaker Output	10W+10W (40dB+40dB)	
New Features	Anynet+, Media Play	

## 2-1-1 New Features explanation

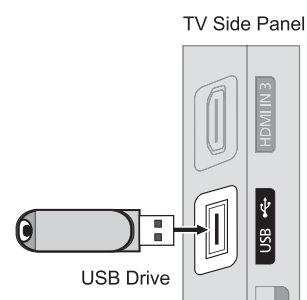
### ■ Media Play

This function enables you to view photo (JPEG) you take more easily, listen to audio files recorded in a USB, and see a movie or acting screen just by connecting USB device.



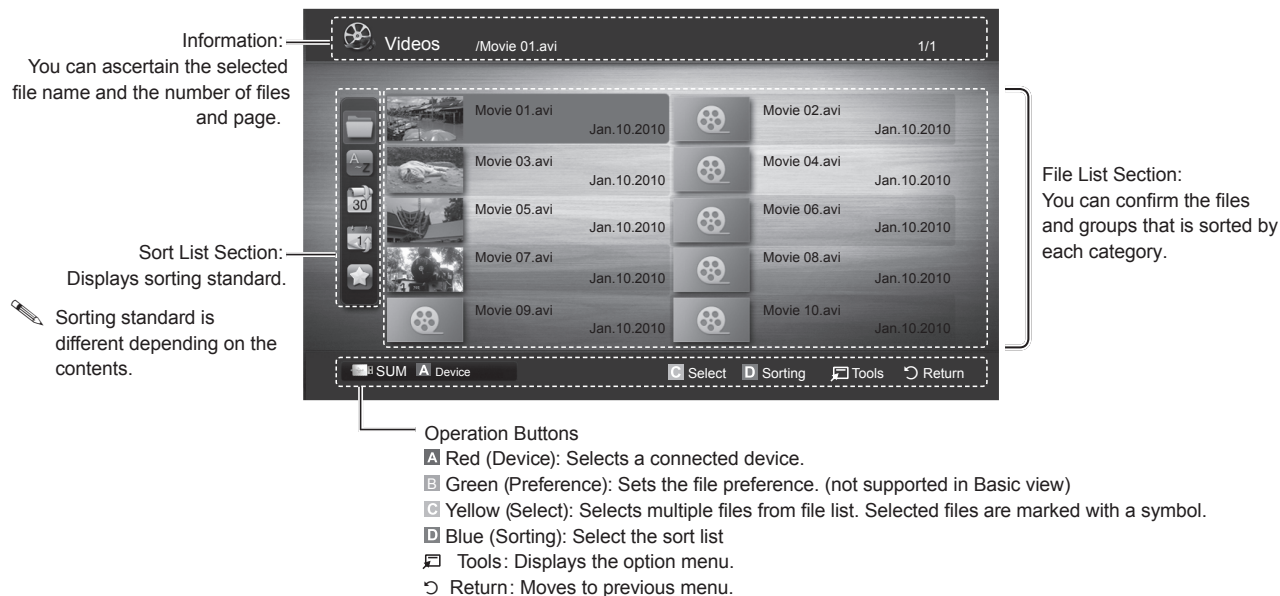
### Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.
3. When USB is connected to the TV, popup window appears. Then you can select Media Play.



## Screen Display

Move to the file you desired using the up/down/right/left buttons and then press the ENTER button.  
The file is played.



<< Videos >>

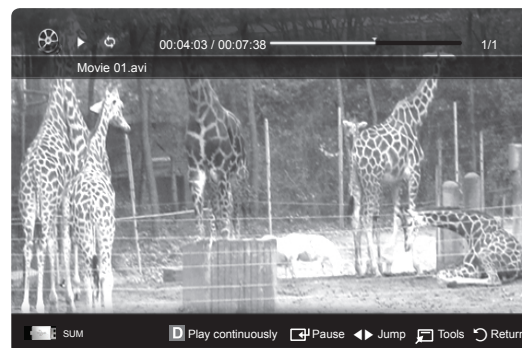
### Playing a Video

- Press the ◀ or ▶ button to select Videos, then press the ENTER button in the Media Play menu.
- Press the ◀/▶/▲/▼ button to select the desired video in the file list.
- Press the ENTER button or Play button.
  - The selected file is displayed on the top with its playing time.
  - The playing duration of a movie file may be displayed as "00:00:00" if the playback time information is not found at the start of the file.

▣ In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

### Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.txt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based



### ◆ Supported Subtitle Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS HD
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.asf	ASF	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920x1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP / MP / HP	1920x1080	6 ~ 30	8	MP3 / ADPCM / AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		XVID	1920x1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	ADPCM / AAC / HE-AAC / QCELP / AMR NB/WB
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.vro *.vob	VRO VOB	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM
		MPEG2	1920x1080	24 / 25 / 30	30	
*.mpg *.mpeg	PS	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	24 / 25 / 30	30	
		H.264	1920x1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / AAC / MP3 / DD+
		H.264	1920x1080	6 ~ 30	25	
		VC1	1920x1080	6 ~ 30	25	

### Playing movie continuously (Resume Play)

If you exit the playing movie function, the movie can be played later from the point where it was stopped.

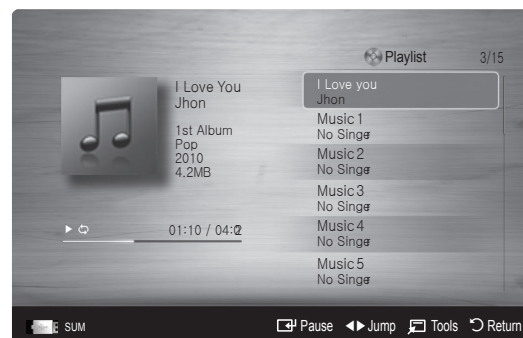
1. Select the movie file you want to play continuously by pressing the ◀ or ▶ button to select it from the file list section.
  2. Press the Play/ENTER button.
  3. Select Play Continuously (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.
- The Blue button is available when resuming play.
  - If the Cont. movie Play Help function is set to On in the Settings menu, a pop-up message will appear when you resume play a movie file.

## &lt;&lt; Music &gt;&gt;

Playing a Music

1. Press the ◀ or ▶ button to select Music, then press the ENTER button in the Media Play menu.
2. Press the ◀/▶/▲/▼ button to select the desired Music in the file list.
3. Press the ENTER button or Play button.
  - During playing the music, you can explore at intervals of 10 seconds using ◀ and ▶ button.
  - (REW) and (FF) buttons do not function during play.

- Only displays files with the MP3 file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- If the sound is strange when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)



## &lt;&lt; Photos &gt;&gt;

Viewing a Photo (or Slide Show)

1. Press the ◀ or ▶ button to select Photos, then press the ENTER button in the Media Play menu.
2. Press the ◀/▶/▲/▼ button to select the desired photo in the file list.
3. Press the ENTER button or Play button.
  - While a photo list is displayed, press the (Play)/ENTER button on the remote control to start slide show.
  - All files in the file list section will be displayed in the slide show.
  - During the slide show, files are displayed in order from currently being shown.

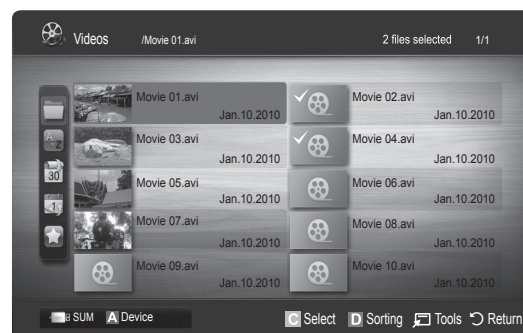
- Music files can be automatically played during the Slide Show if the Background Music is set to On.



### Playing the multiple files

#### Playing the selected video/music/photo files

1. Press the Yellow button in the file list to select the desired file.
2. Repeat the above operation to select multiple files.
  - The (✓) mark appears to the left of the selected files.
  - To cancel a selection, press the Yellow button again.
  - To deselect all selected files, press the TOOLS button and select Deselect All.
3. Press the Play/ENTER button.



#### Playing the video/music/photo file group

1. While a file list is displayed, move to the any file in desired group.
2. Press the TOOLS button and select Play Current Group.

### Media Play Additional Function

#### Sorting the file list

Press the Blue button in the file list to sort the files.

Category	Operations	Videos	Music	Photos
Basic View	It shows whole folder. You can view the photo by selecting the folder.	✓	✓	✓
Title	It sorts and displays the file title in Symbol/Number/Alphabet/Special order.	✓	✓	✓
Preference	It sorts and displays the file by preference. You can change the file preference in the file list section using the Green button.	✓	✓	✓
Latest Date	It sorts and shows files by latest date.	✓		✓
Earliest Date	It sorts and shows files by earliest date.	✓		✓
Artist	It sorts the music file by artist in alphabetical.		✓	
Album	It sorts the music file by album in alphabetical order.		✓	
Genre	It sorts music files by the genre.		✓	
Mood	It sorts music files by the mood. You can change the music mood information.		✓	
Monthly	It sorts and shows photo files by month. It sorts only by month (from January to December) regardless of year.			✓

Videos/Music/Photos Play Option menu

Category	Operations	Videos	Music	Photos
Title	You can move the other file directly.	✓		
Repeat Mode	You can play movie or music files repeatedly.	✓	✓	
Picture Size (Mode1 / Mode2 / Original)	You can adjust the picture size for preference.	✓		
Picture Setting	You can adjust the picture setting.	✓		✓
Sound Setting	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitle. This function only works if the subtitles are the same file type as the video.	✓		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓
Background Music	You can set and select background music when watching a Slide Show.			✓
Zoom	You can zoom into images in full screen mode.			✓
Rotate	You can rotate images in full screen mode.			✓
Information	You can see detailed information about the played file.	✓	✓	✓

&lt;&lt; Settings &gt;&gt;

Using the Setup Menu

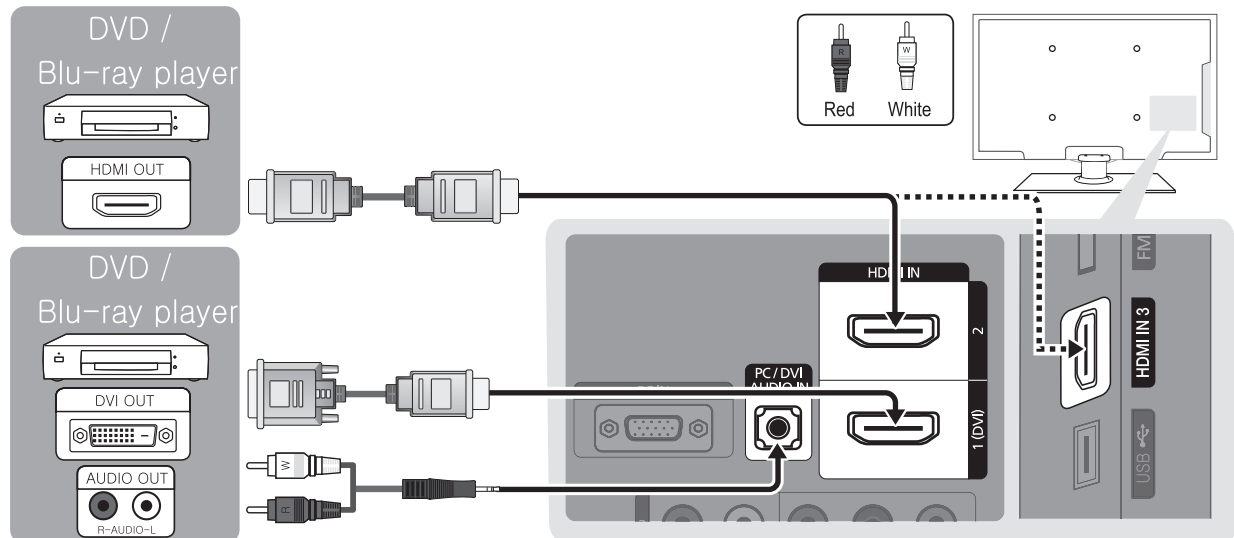
- Cont. movie Play (Resume Play) Help (On / Off): Select to display the help pop-up message for continuous movie playback.
- Get the DivX® VOD registration code: Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file. If you play the VOD registration using Media Play, the registration is completed.  
- For more information on DivX® VOD, visit "www.DivX.com."
- Get the DivX® VOD deactivation code: When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
- Information: Select to view information about the connected device.



## ■ Anynet+

Anynet+ is an AV network system that enables you to control all connected Samsung AV devices with your Samsung TV's remote.

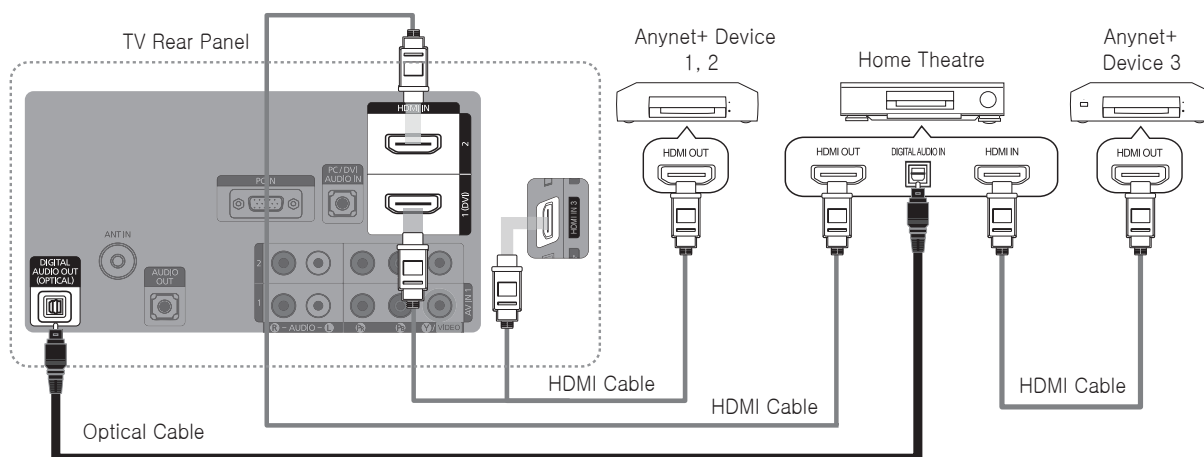
### To connect to a TV



#### ■ HDMI IN 1(DVI), 2, 3, PC/DVI AUDIO IN

- When using an HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack. For the DVI cable connection, use a DVI to HDMI cable or DVI-HDMI (DVI to HDMI) adapter for video connection and the PC/DVI AUDIO IN jacks for audio.
- If an external device such as a DVD / Blu-ray player / cable box / satellite receiver (Set-Top Box) supporting a HDMI versions older than 1.3 is connected, the TV may operate abnormally (e.g. no screen display / no sound / annoying flicker / abnormal colour).
- If there is no sound after connecting an HDMI cable, check the HDMI version of the external device. If the version is older than 1.3, contact the provider of the corresponding device to confirm the HDMI version and request an upgrade.
- It is recommended you purchase an HDMI-certified cable. Otherwise, the screen may appear blank or a connection error may occur.

### To connect to Home Theatre






1. Connect the HDMI IN (1(DVI), 2 or 3) jack on the TV and the HDMI OUT jack of the corresponding AnyNet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding AnyNet+ device using an HDMI cable.




#### NOTE

- Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theatre.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front, Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD / satellite box (i.e. AnyNet Device 1 or 2) directly to the Amplifier or Home Theatre, not the TV.
- Connect only one Home Theatre.
- You can connect an AnyNet+ device using the HDMI cable. Some HDMI cables may not support AnyNet+ functions.
- AnyNet+ works when the AV device supporting AnyNet+ is in the standby or on status.
- AnyNet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

## 2-2 Specifications Analysis

Model		PL42C45X PS42C45X	PL50C45X PS50C45X	PL50B450
Design				
Basic	Display Type	PDP TV	PDP TV	PDP TV
	Built-In Tuner	X	X	X
	Resolution	1024 x 768	1365 x 768	1365 x 768
	PDP Module	U2P	U2P	U1P
	Screen Size	42"	50"	50"
	Picture ratio	16 : 9	16 : 9	16 : 9
Picture	Brightness	1,500Cd/m2	1,500 Cd/m2	1,300 Cd/m2
	Contrast Ratio	40000:1	40000:1	10000:1
	Picture Enhacer	DNle	DNle	X
Audio	Equalizer	5 Band	5 Band	5 Band
	Auto Volume Control	O	O	O
	Surround Sound	Dolby Digital	Dolby Digital	SRS TruSurround HD
	Speaker Output	10W + 10W	10W + 10W	10W + 10W
Features	PIP	O	O	O
	Double Screen	X	X	X
	Caption	O	O	O
	Still Image	X	X	X
	Energy Saving	O	O	O
	Anynet	O	O	O

※ O: Feature Included, X: Not Included

Model		PL42C45X PS42C45X	PL50C45X PS50C45X	PL50B450B1
Design				
Connections	Antenna	1 (Cable/Air)	1 (Cable/Air)	1 (Cable/Air)
	AV Input	2 Input	2 Input	2 Input
	S-Video	X	X	X
	Component (Y/PB/PR)	2 Input	2 Input	2 Input
	PC (D-SUB)	1 Input	1 Input	1 Input
	DVI	X	X	X
	HDMI	3 Input	3 Input	3 Input
	Optical	1	1	1
	Etc.	USB 1 Input	USB 1 Input	USB 1 Input
Etc.	Speaker/Stand	Built-in Speaker	Built-in Speaker	Built-in Speaker

※ ○: Feature Included, X: Not Included

※ For the power supply and power consumption, refer to the label attached to the product.

## 2-3 Detail Factory Option

If you replace the main board with new one, please change the factory option as well.

1. Enter Factory Mode. (If you want to know method, refer to 4-2-2)
2. Select SVC.
3. In SVC, Enter Panel Auto Setting.
4. In Panel Auto Setting, Select Left Arrow.
5. If Panel Auto Setting is SUCCESS, Setting is Finished.

■ And Check Table Option, refer to table as follow (Latin America)

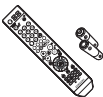



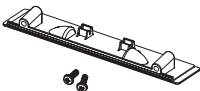
Model Name			PL42C45X	PL50C45X
Panel		Vendor	SDI	SDI
		CODE	BN96-12647A	BN96-12706A
		SPEC	S42AX-YB09	S50HW-YB05
SMPS		IP Board(SEM)	BN44-00329A	BN44-00330A
Byte	Item	CHASSIS ASS'Y	BN41-01376A	BN41-01376A
		PBA ASSY CODE	BN94-03357G	BN94-03357F
0	Factory Reset	-	-	-
1	Type	19O6TH0C ~ 63FARn1	42HHcD3	50HHcD4
2	Local Set	Brazil_DTV ~ PERU_DTV	SA_ATV	SA_ATV
3	Model	LC350 ~ LC453H	PC450	PC450
4	Tuner	SEMPT082 ~ DRXKXG	SEMPA081	SEMPA081
5	DDR	0, 1, 2	0	0
6	Light Effect	ON/OFF	OFF	OFF
7	Ch Table	PBA ~ IRAN	NONE	NONE
8	Country	...	...	...
9	Front Color	W-Milky ~ T-R-Gray	S-R-BLK	S-R-BLK

■ And Check Table Option, refer to table as follow (Asia)





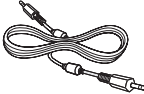

Model Name			PS42C45X	PS50C45X
Panel		Vendor	SDI	SDI
		CODE	BN96-12647A	BN96-12706A
		SPEC	S42AX-YB09	S50HW-YB05
SMPS		IP Board(SEM)	BN44-00329A	BN44-00330A
Byte	Item	CHASSIS ASS'Y	BN41-01376A	BN41-01376A
		PBA ASSY CODE	BN94-03357G	BN94-03357F
0	Factory Reset	-	-	-
1	Type	19O6TH0C ~ 63FArN1	42HHcD3	50HHcD4
2	Local Set	EA_Vietnam ~ EDVietnam	EA_Thai	EA_Thai
3	Model	LC350 ~ LC453H	PC450	PC450
4	Tuner	SEMPT082 ~ DRXKXG	DEXKSEMCO	DEXKSEMCO
5	DDR	0, 1, 2	0	0
6	Light Effect	ON/OFF	OFF	OFF
7	Ch Table	PBA ~ IRAN	NONE	NONE
8	Country	...	...	...
9	Front Color	W-Milky ~ T-R-Gray	S-R-BLK	S-R-BLK

## 2-4 Accessories

### 2-4-1 Supplied Accessories

Accessories	Item	Item code	Remark
	Remote Control Batteries	BN59-01009A 4301-000103	Samsung Service Center
	Power Cord	3903-000467	
	Owner's Instructions	BN68-02771A	
	Cloth-Clean	BN63-01798B	
	Cover-Bottom Screws (2ea)	BN63-06456A 6003-001003	

**2-4-2 Sold Separately**

Accessories	Item	Item code	Remark
	HDMI Cable	-	Samsung Service Center
	HDMI/DVI cable	-	
	Component Cables (RCA)	-	
	PC Cable	-	
	PC Audio Cable	-	
	Antenna Cable	-	