Order No. ITD1703901GE

Technical Guide

2017 - LCD TV / OLED TV

Model No. LCD-201703 OLED-201707



Ver. 3.0 (Jul-2017)

Lineup and Function



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Revision History

Version	Issued/Revised date	Revised content
Ver. 1.0	27th. Mar. 2017	First version
Ver. 2.0	26 th . May. 2017	Add new models (P.5 - P.10) Delete TC-32E400C model because of dropping the lineup
Ver. 3.0	7 th Jul. 2017	Add OLED models (P.5 -10)

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HDR / HDR Multi Support

Му Арр

TV Anywhere (Europe) / TV Anytime (Oceania/Asia)

Media Center App

Media Player 2.0

Easy Mirroring

USB HDD Recording

In-House TV Streaming (Only Europe)

IP Home Control (Only Europe and Canada)

1. Lineup and Function Comparison

Lineup and Comparison of the Functions (Oceania/Asia/Middle East/Africa) 1							
Model Name		TH-**E 400/410*	TH-**ES 500/630* (except A/Z)	TH-**ES 500A/Z	TH-**EX 600/640/680/ 700* (4K)	TH-**EX 750/770/780* (4K)	TH-65/55EZ 950/1000* (4K OLED)
Main SoC		MT5561	Peaks LD11	MT5581P	MT5811Q	MT5811P	MT5811P
Function	HDR	N	N	N	PQ(HDR10) + HLG	PQ(HDR10) + HLG	PQ(HDR10) + HLG Ultra HD Premium *1
	my Home Screen	N	1.0	1.0	2.0	2.0	2.0
	Му Арр	N	Y	Y	Y	Y	Y
	Info Frame	N	Ν	N	Y (except –R)	Y (except –R)	Y
	Voice Guidance	N	Y (except –R)	Y	Y (except –R)	Y (except –R)	Y
	3D	Ν	Ν	N	Ν	Y (except –R)	Ν
	Twin HD Tuner	Ν	Ν	N	Ν	Y (only -A/ -U)	Y (only -U)
	Multi Window	Ν	Y (except -D/-W)	Y (except -D/-W)	Y (except -D/-W)	Y (except -D/-W)	Y (except -D/-W)
	Media Player	Y	Y	Y	Y (2.0)	Y (2.0)	Y (2.0)
	Touch Pad Remote	N	N	N	Ν	Y	Υ
Networking	DLNA	N	Y	Y	Y	Y	Y
	Swipe & Share	N	Y (except –R)	Y	Y (except –R)	Y (except –R)	Y
	Web Browser (without Flash)	N	Y	Y	Y	Y	Y
	Easy Mirroring	N	Y	Y	Y	Y	Y

(*1) Ultra HD Premium [™] logo is a trademark of the UHD Alliance, Inc.

Lineup and Comparison of the Functions (Oceania/Asia/Middle East/Africa) 2

Model Name Main SoC		TH-**E 400/410*	TH-**ES 500/630* (except A/Z)	TH-**ES 500A/Z	TH-**EX 600/640/680/ 700/* (4K)	TH-**EX 750/770/780* (4K)	TH-65/55EZ 950/1000* (4K OLED)
		MT5561	Peaks LD11	MT5581P	MT5811Q	MT5811P	MT5811P
Terminal	Bluetooth (Not Audio, Only Keyboard/Mouse)	N	Y (only –D) Wireless Media (only –D)	N	N	Y (Not Audio) (except –R)	Y (Not Audio)
	Headphones	N	N	Y	Y	Y	Y
	Analog Audio out	Y	Y	N	N	N	N
	WiFi built-in / LAN port	N	Y	Y	Y	Y	Y
	HDMI (FHD/4K)	2+0, 1+0 (only 32D400D)	3+0	3+0	0+3	0+4	0+4
	USB2.0 /3.0	1+0	2+0	2+0	1+1(DX600) 2+1(DX640)	2+1	2+1
	SD Card	N	N	N	N	N	N
Note							(only EZ1000) Speaker is separated

2. Function

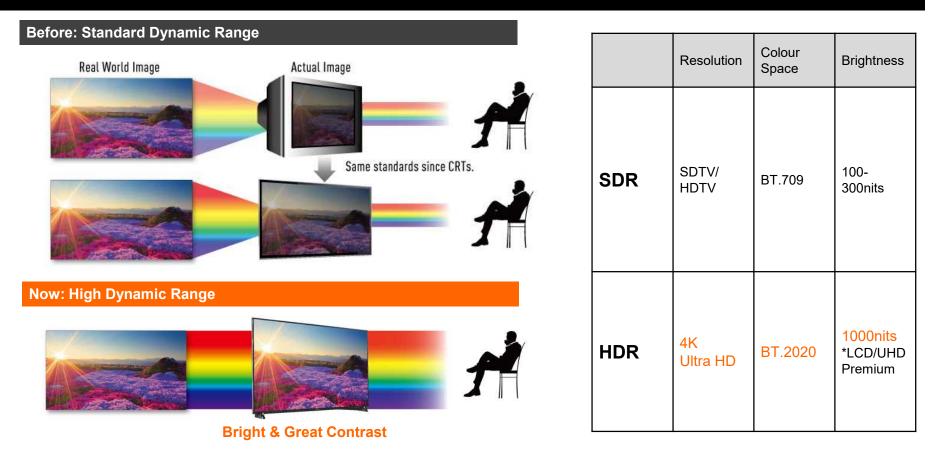
HDR Multi Support



Technical Information

The expressible bright and dark parts are expanded to achieve more natural images.

What's HDR?



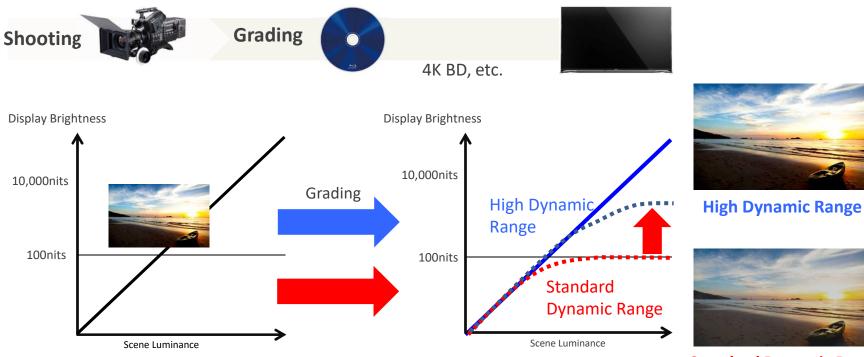
HDR (High Dynamic Range)

What's High Dynamic Range(HDR)?

The high-brightness data that is recorded when shooting is used directly to faithfully reproduce images in their original brightness.

HDR Compatible : standard defined by CEA

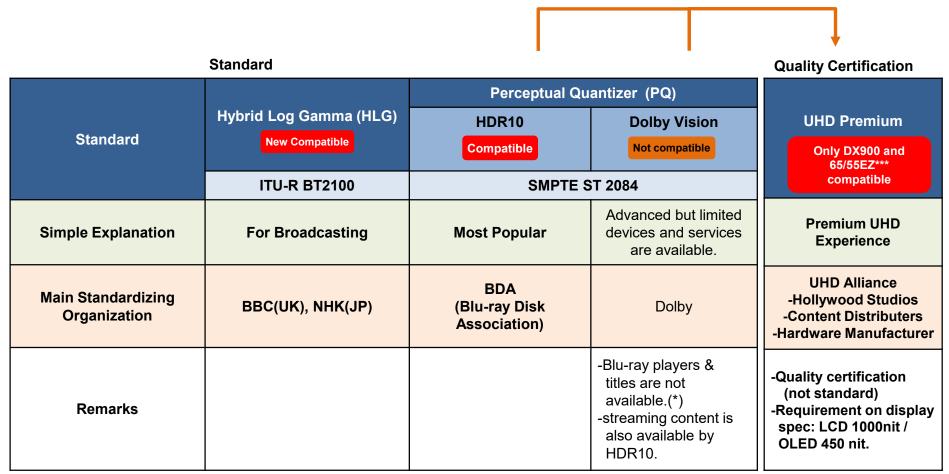




Standard Dynamic Range

HDR Multi Support

Panasonic TVs support multiple HDR formats, such as HDR10 the standard HDR format for films and UHD Blu-ray discs, and now also Hybrid Log Gamma, the HDR format for broadcast TV developed by the BBC and Japan's NHK. You can be assured of future compatibility.

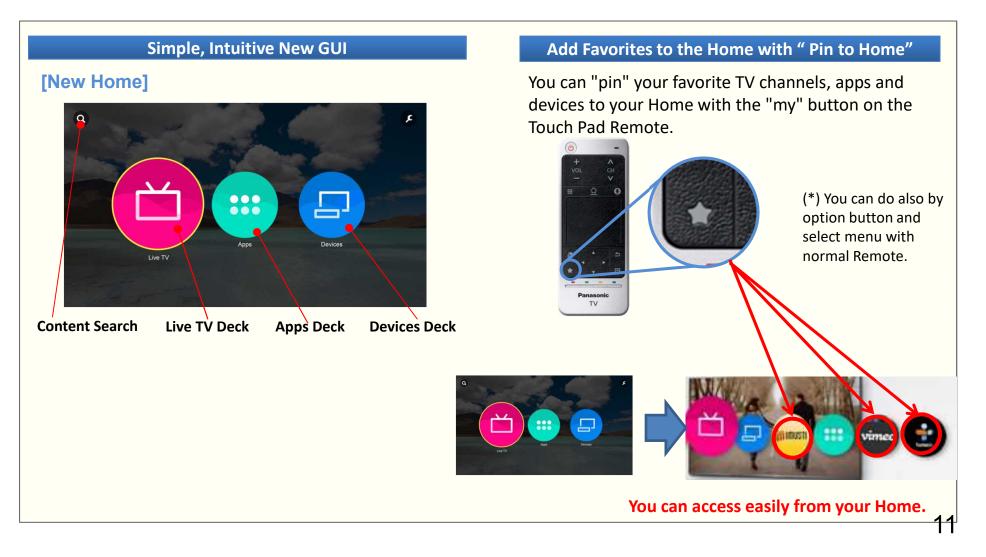


*As of December 2016.

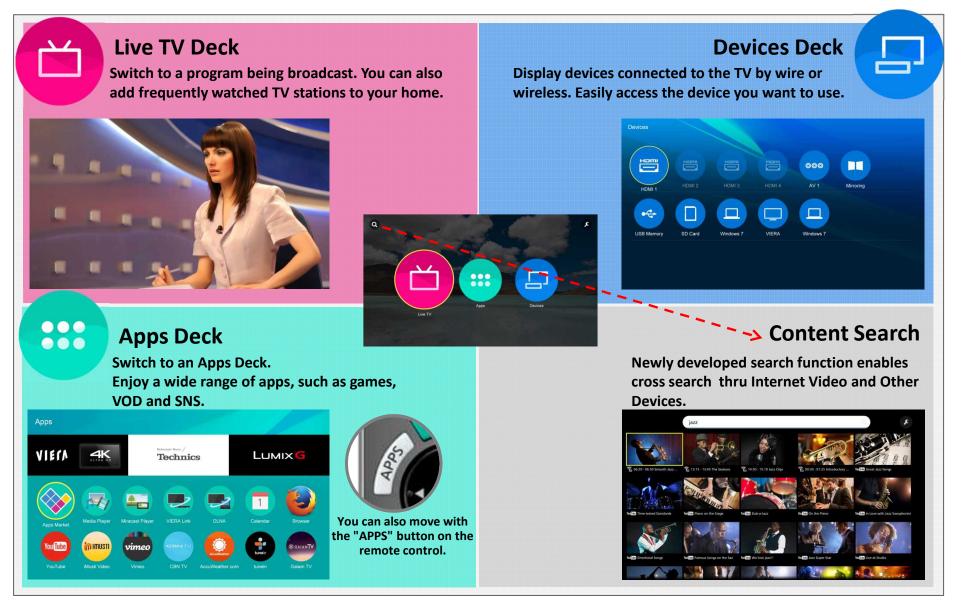
my Home Screen 2.0 (4K model)

Quick, Intuitive Access to Just the Content You Want

"my Home Screen" will be renewed, as a single gateway to all the broadcasting channels, apps and connected devices. A new Firefox OS-based home screen makes it easy to access the content you want with intuitive operation.



my Home Screen 2.0 Details – Default Decks and the Others (4K model)



my Home Screen (FHD model)

You can personalize the home screen with your favorite apps and content. "my Home Screen" makes it fast and easy to access whatever you want.



*Synching with Google Calendar is also possible.

Preset Home Screens

Choose your own home screen from 2 formats or an ordinary TV screen.

Lifestyle Screen







*Preset Home Screens may depend on the country/area.

Creating Original Screen

Freely arrange apps to create an original home screen.



Easily access your favourites from your Home.

Info Frame

Quick Access to Useful Information

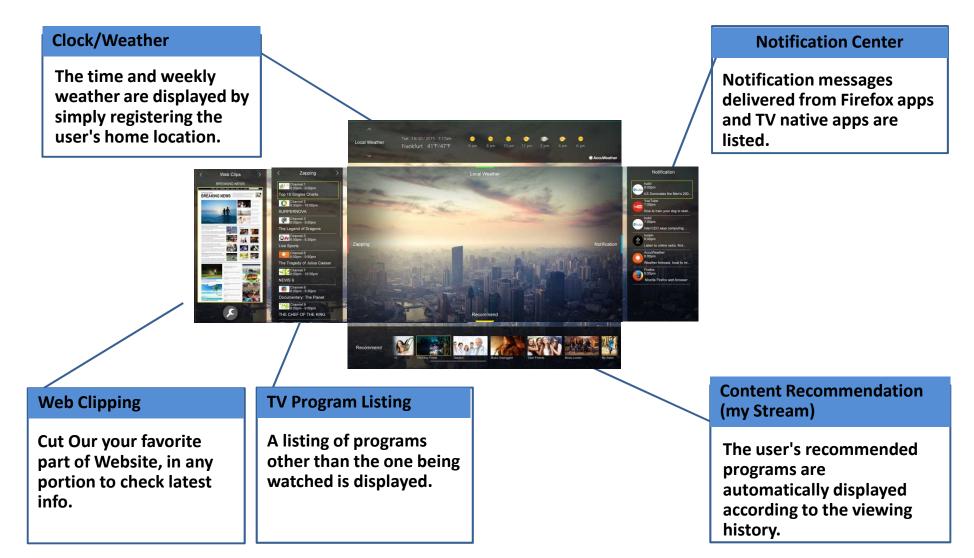
As soon as the TV turns on, information that is useful to you is displayed. You get quick, easy access to the weather, a clock, recommended TV program listings, etc.

The pictures are just for reference. It might be differ from the actual menu.

Easy Access Continue pressing the "HOME" button Press the direction button **Clock / Weather Information TV Program Listing** & Web Clips Notification Center **Content Recommendation** 14 (my Stream)

Info Frame Details

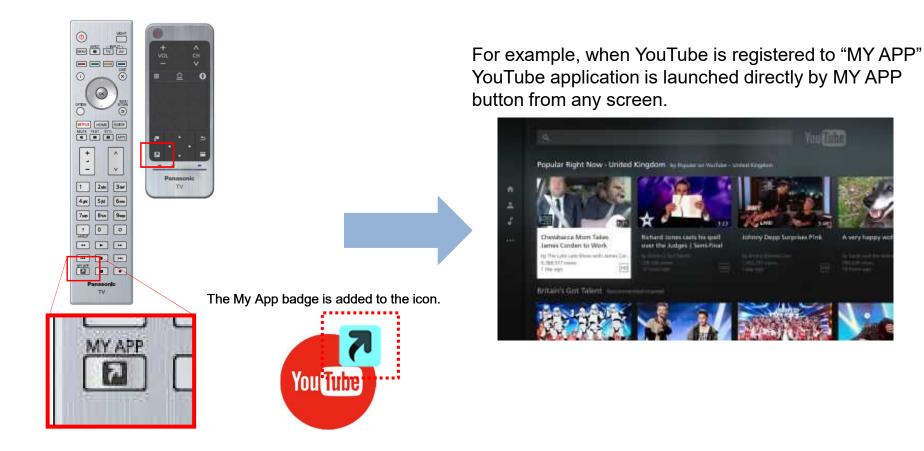
Quick Access to Useful Information



The pictures are just for reference. It might be differ from the actual menu.

My App

Quickly access registered MY APP applications with a single remote control button. The user can assign only 1 application to "MY APP."

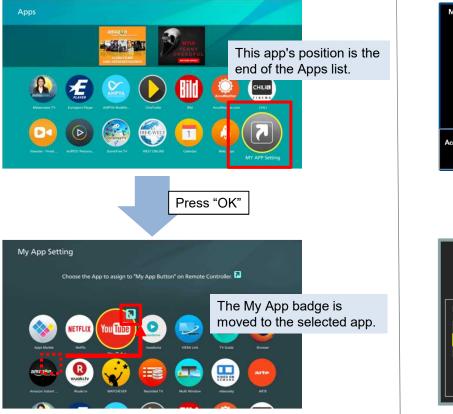


My App

"MY APP" registration is also easy.

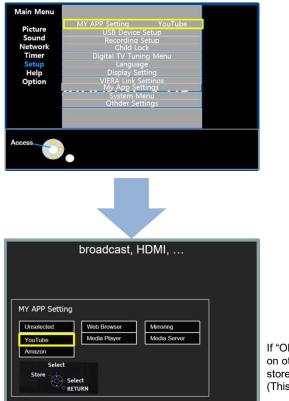
< 4K Models >

Apps > MY APP Setting



< FHD Models > (Except Europe)

Main Menu > Setup > MY APP Setting

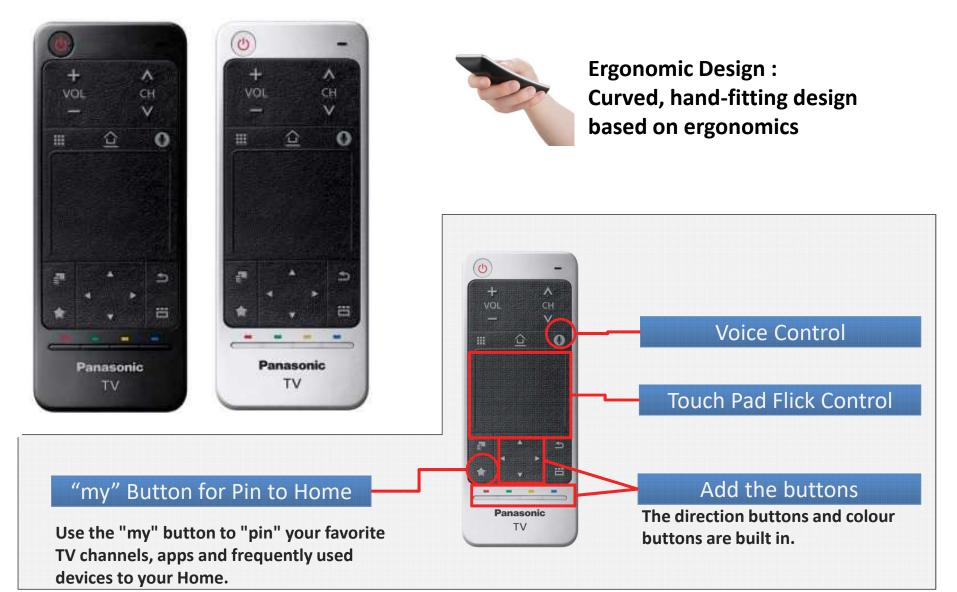


If "OK" is pressed while focusing on other App, the selected App is stored for the MY APP key. (This panel just disappears.)

Your own favorite Apps are easily assigned with the My App Setting.

Touch Pad Remote Controller

The new Touch Pad Remote enables intuitive operation using voice and touch control.



Voice Command List

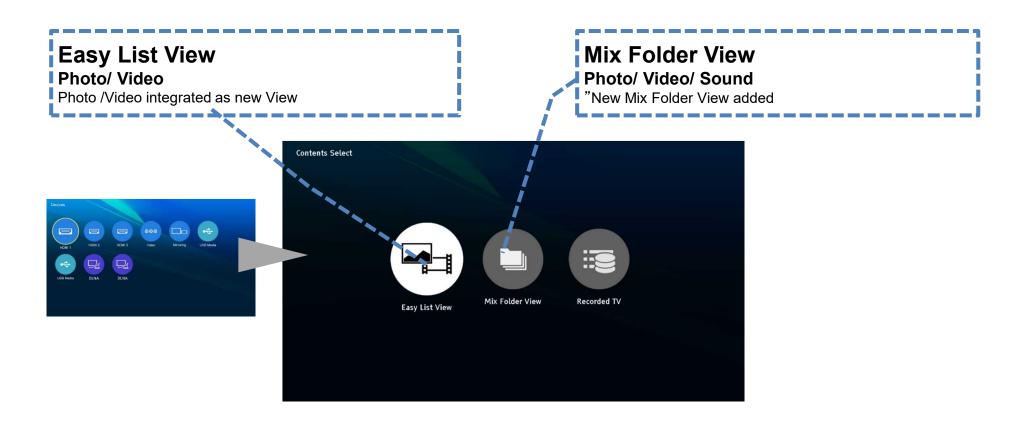
In case you forget a voice command

 \rightarrow Say "Help" or press the OPTION button to show the voice commands.

	English	Spanish		English	Spanish
Common Operation	Volume up	Sube volumen	Basic Operation	Channel up	Sube canal
	Volume down	Baja volumen	(appli by)	Channel down	Baja canal
	Volume 20	Volumen 20		Channel 1 2 (one two)	Canal 1 2 (uno dos)
	Mute	Silencio		Previous page	Vuelve a la página anterior
	Live TV	TV en directo		Next page	Ir a página siguiente
	Devices	Dispositivos		Scroll up	Desplaza hacia arriba
	Info Frame	Info Frame		Scroll down	Desplaza hacia abajo
	my Home Screen	Mi pantalla de inicio		Scroll right	Desplaza hacia la derecha
	,			Scroll left	Desplaza hacia la izquierda
	Apps	Aplicaciones		Zoom in	Ampliar
	That one OK	confirmar ok		Zoom out	Reducir
	-			Number one / Number two / Number three	número uno / número dos / número tres
	Goup	arriba		Select number ***	Seleccionar número ***
	Go down	abajo		Pin to Home	Añadir a Pantalla de Inicio
	Go right	derecha		Pin to Home number ***	Añadir a Pantalla de Inicio número ***
	Go left	izquierda		Change screen	Cambiar Pantalla
	Red button	Botón rojo	Appli Operation	Add bookmark	Agregar a favoritos
	Blue button	Botón azul		Jump to ***	Saltar a ***
	Green button	Botón verde	Search Command	Search for ***	Buscar ***
	Yellow button	Botón amarillo		Search the internet for ***	Buscar *** por internet
	Television power on	encender la televisión		Search for images of ***	Buscar *** imágenes
	Television power off	apagar la televisión		Search for videos of ***	Buscar *** vídeos
	Help	Ayuda		Search for news of ***	Buscar *** en notícias
				Search for (a) map of ***	Buscar *** en mapa
	Return	Vuelve		Search the TV guide for ***	Buscar *** por guía de televisión
	Exit	Cerrar		Search for *** in recorded TV	Buscar *** por televisión grabado
	Instructions for Voice Control	Instrucciones Control Voz		Search YouTube for ***	Buscar *** por YouTube

Media Player 2.0 (for 4K models)

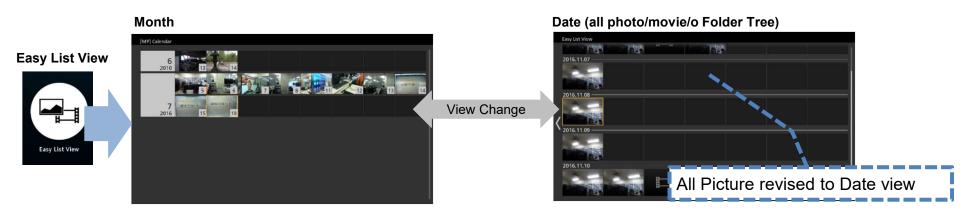
The Media Player function was revamped for easier use. Each day and month can be displayed, like a smartphone, so desired images and videos can quickly be found.

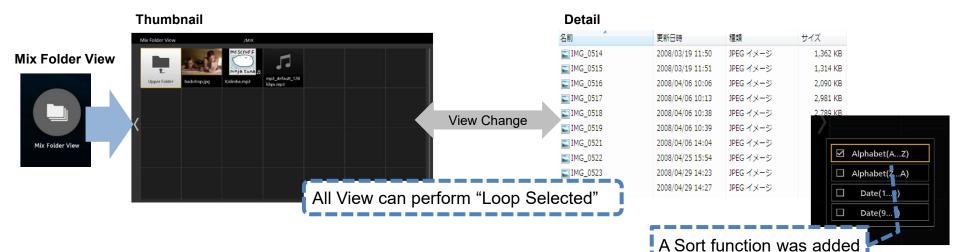


Media Player 2.0 (for 4K models)

The Media Player function was revamped for easier use. Each day and month can be displayed, like a smartphone, so desired images and videos can quickly be found.

< Folder Structure >





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HEXA BOOST (ES series)

Simply press the HEXA Boost Button on the remote control to enjoy Vivid colour in content such as football, drama, and animation. For example, the football pitch looks more vivid with real-life shades of green and uniforms look as if you were viewing them in their natural colours in an actual, live game.

Easy Operation

Just press the "Hexa Boost" button and choose the content.







Change the setting easily and enjoy vivid and clear images

Compatible Content and Effect

Enables to enjoy stunning picture by focusing on Drama, Animation and Sports



Animation

- Vivid/enrich colors expressly by rising color level (RGB)
- Crisp image by sharpen the edge



Drama

-Rich/clear image by rising color level

-Skin tone is natural by taking the balance of red level

Sports

-Fresh greens by rising green level

-Colorful uniforms by rising color level

Colors are maximized! Clear and vivid picture

Easy Mirroring

Easily Reproduce What's Showing on Your Smartphone on Your TV Screen

It's now possible to set up a direct Wi-Fi connection between your TV and your smartphone or tablet, so that you can quickly and easily reproduce what's showing on your portable device on your TV's much bigger screen.

*Compatible with Android[™] devices, Ver. 4.2 and above and Miracast certified. *Some models with Ver. 4.0 and 4.1 may work (iOS does not support.)

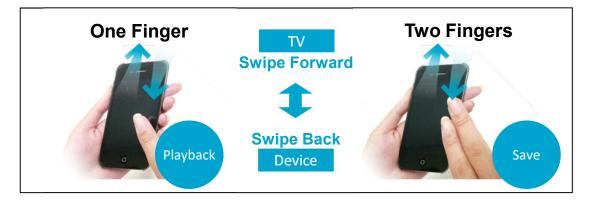
(Note) The sound can be output from TV speaker only, Sound output (Optical, HDMI(ARC)) does not support.



2-Way Operation for Swiping Forward and Back

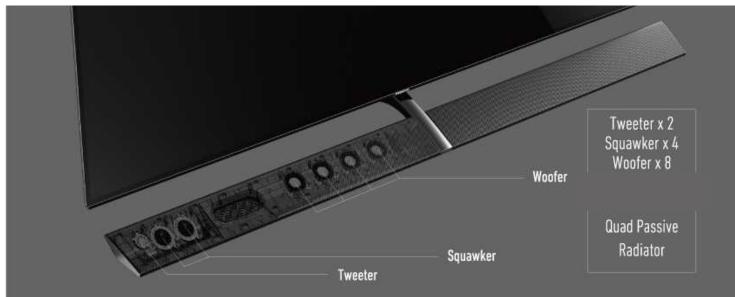


Content can be shared between the TV and a linked device by swiping with one finger. When you want to save something, use two fingers.

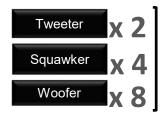


Dynamic Blade Speakers (EZ1000)

Equipped with isolated "Blade" shaped speaker system equivalent to Sound Bars for optimal sound quality.



14 Multiple Speaker Units + Quad Passive Radiator





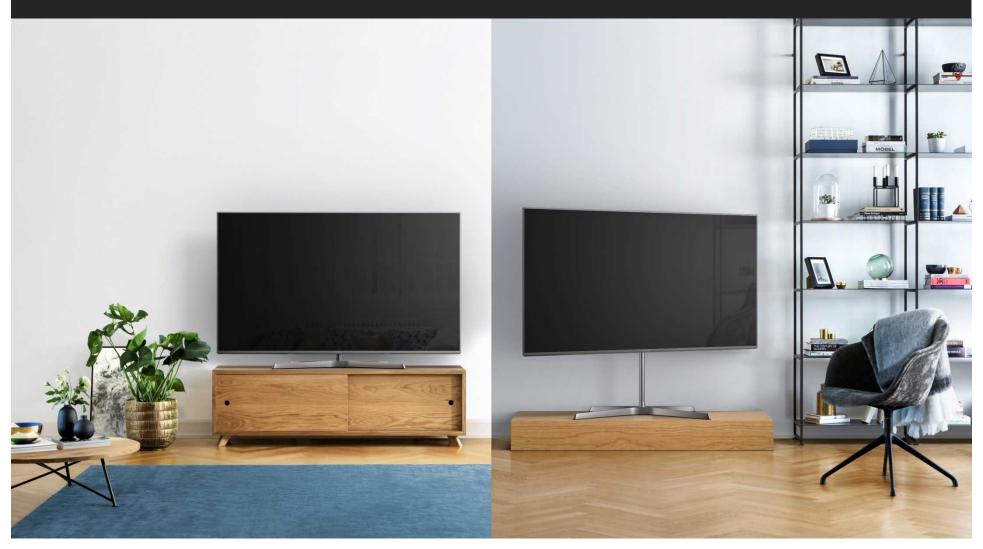
Two passive radiators are located in front of and behind the right and left speaker units. This opposing configuration dramatically reduces vibration noise.



Full 80-watt output, even with a thin profile

Powerful bass

EX750 " Switch Design A Contemporary Twist"



With Swivel and Lift functionality, the Panasonic EX750 always offers the perfect viewing angle. So wherever you make yourself comfortable, you'll always have the best seat in the house with our "Switch Design"

EX600/ES630 " Switch Design to Express Yourself"



Wide or narrow, subtle or bold — with four distinct styles in one Flexible Pedestal design, now you can change the look of your TV as often as you remix your room.