

# Panasonic



## HOLLYWOOD TO YOUR HOME



HOME ENTERTAINMENT SPRING 2017

TENTATIVE



# PANASONIC HOME ENTERTAINMENT 2017

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## HOLLYWOOD TO YOUR HOME

For its 2017 AV product range, Panasonic has worked with real filmmaking professionals to give you a genuinely cinematic experience in your living room.

The latest advances in home entertainment technology from Panasonic mean that you can now enjoy unprecedented picture and sound quality from the comfort of your favourite armchair. High dynamic range (HDR) technology lets you see pictures with more contrast and brightness. Screens with 4K Ultra HD resolutions deliver images containing four times as much detail as even the best HD TVs. Wireless audio technologies let you enjoy cable-free music from sources new and old all around your home at the touch of a button. What's more, Panasonic has managed to squeeze all these exciting innovations inside ever more compact and attractive product designs that look great in any room you care to put them in. Heading up Panasonic's TV offering for 2017 are a trio of 4K HDR TVs that combine the peerless contrast performance of OLED screen technology with

Panasonic's ultra-powerful HCX<sup>2</sup> picture processing to deliver pictures that represent the filmmaker's vision more accurately than any TV before. Panasonic OLED TVs even boast picture tuning by renowned Hollywood professionals, with the flagship TX-65EZ1000 carrying additional colour features so advanced that it's being used by filmmakers as a 'master monitor' when creating content for home viewing. So for the first time you can actually watch film and television content on the screen used to create it – and you can't get more accurate than that! To underline this point, Panasonic's OLED TVs enjoy THX certification, meaning they've passed that independent organisation's tough performance quality tests. Most of the Panasonic LCD TVs for 2017 also focus on providing a native 4K resolution, as well as

delivering enough brightness and colour to do HDR justice. To make sure you get the very best from its latest and greatest range of 4K TVs, Panasonic will also have a full range of high quality 4K Ultra HD Blu-ray™ players available in 2017. Every player in this range will feature the same core Ultra HD Premium-certified picture quality engine that earned the flagship DMP-UB900 rave reviews in 2016. The big story for Panasonic's 2017 audio product range, meanwhile, is the way it lets you enjoy your music from sources new and old all around your home without a cable in sight. The latest Panasonic range supports wireless playback for everything from compact hi-fi systems with CD players and DAB+ radio tuners for music lovers to wireless soundbar options for film fans. These soundbars can in some cases even be

partnered with separate Panasonic multi-room speakers to deliver a true multi-channel surround sound experience. Every product in the latest Panasonic multi-room audio range looks as good as it sounds, too. Some are even available in different colour options, while others are optimized regarding sound and design for mounting them on the wall to enrich your living room. And before you start worrying that you need to be a rocket scientist to enjoy all these modern AV wonders, setting up and using the latest Panasonic multi-room products is made easy by the latest Panasonic Music Streaming app. In fact, as you're about to discover, the following pages are stuffed to bursting point with video and audio products that epitomise the Panasonic philosophy of creating high-quality experiences that everyone can enjoy.

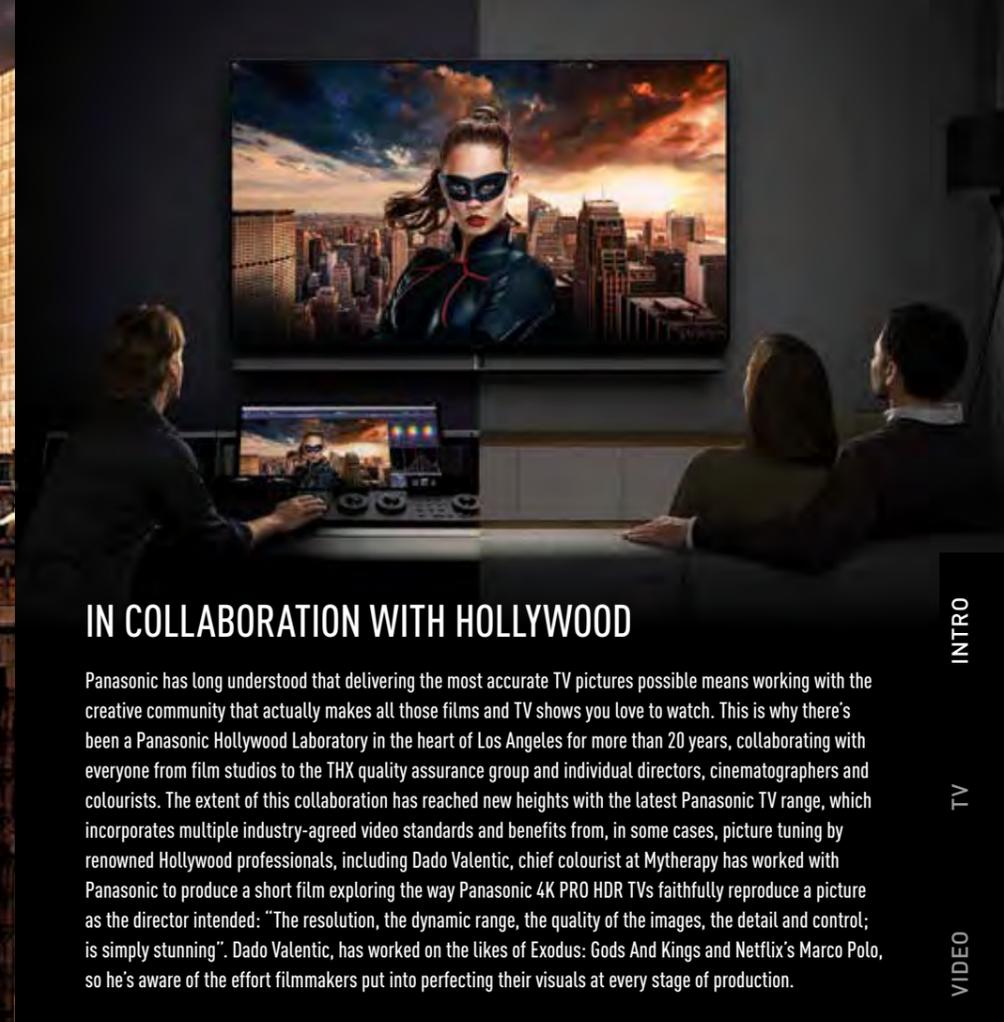
# HOLLYWOOD TO YOUR HOME



PANASONIC TELEVISIONS PRESENT  
THE STUDIO COLOUR HCX2 PROCESSOR  
TUNED IN HOLLYWOOD  
FOR A TRULY CINEMATIC PICTURE  
DRAMATIC HIGHLIGHTS AND SHADOWS  
STUNNING LEVELS OF DETAIL  
A BILLION BREATHTAKING COLOURS  
MASTERED FOR ACCURACY



**4K** PRO  
HDR



## IN COLLABORATION WITH HOLLYWOOD

Panasonic has long understood that delivering the most accurate TV pictures possible means working with the creative community that actually makes all those films and TV shows you love to watch. This is why there's been a Panasonic Hollywood Laboratory in the heart of Los Angeles for more than 20 years, collaborating with everyone from film studios to the THX quality assurance group and individual directors, cinematographers and colourists. The extent of this collaboration has reached new heights with the latest Panasonic TV range, which incorporates multiple industry-agreed video standards and benefits from, in some cases, picture tuning by renowned Hollywood professionals, including Dado Valentich, chief colourist at Mytherapy has worked with Panasonic to produce a short film exploring the way Panasonic 4K PRO HDR TVs faithfully reproduce a picture as the director intended: "The resolution, the dynamic range, the quality of the images, the detail and control; is simply stunning". Dado Valentich, has worked on the likes of Exodus: Gods And Kings and Netflix's Marco Polo, so he's aware of the effort filmmakers put into perfecting their visuals at every stage of production.

# HOLLYWOOD TO YOUR HOME

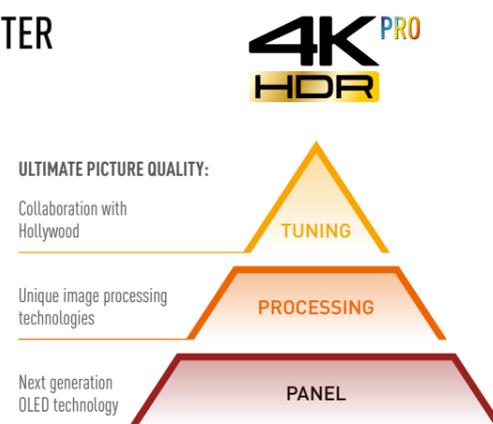
By combining the stunning contrast and colour of OLED technology with professional-grade processing, Panasonic has delivered its most accurate and detailed picture ever.

## MASTER HDR OLED TECHNOLOGY – MAKING THE BEST BETTER

To most industry experts and film enthusiasts, OLED screens represent the ultimate in picture quality. OLED's unique ability to have each and every pixel produce its own light and colour leads to incredibly rich, natural colours and industry-leading contrast. For Panasonic, though, these innate OLED talents are just the start. Panasonic OLED TVs take OLED's unique qualities and add a powerful mix of hardware and software innovations born from decades of experience with TV technology and Hollywood filmmakers.

A new screen filter, for instance, neutralises on-screen reflections to deliver intensely rich and accurate black shades. Panasonic's 4K PRO HDR concept, meanwhile, combines professional-grade contrast, colour and brightness/lighting control with tuning by a top Hollywood colourist.

In fact, Panasonic OLED TVs deliver picture quality to rival the film industry's master monitors, letting consumers enjoy images that look almost exactly as filmmakers intended them to look.



### ABSOLUTE BLACK FILTER

While OLED technology is renowned for its ability to deliver 'absolute black', external reflections can reduce the accuracy of black tone reproduction. The unique Absolute Black Filter inside Panasonic OLED TV, though, neutralises reflections, resulting in far more consistently accurate black shades.

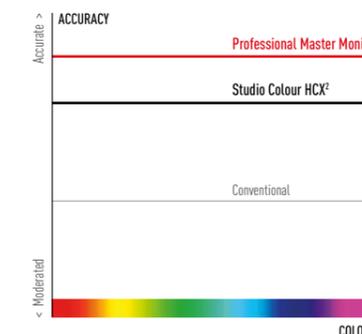


only for EZ1000



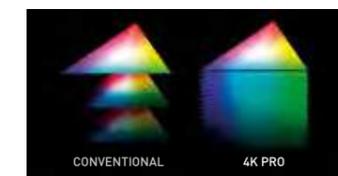
### STUDIO COLOUR HCX<sup>2</sup>

The driving force behind the cutting-edge processing inside 2017's top-tier Panasonic TVs is the new Studio Colour HCX<sup>2</sup> processor. As well as controlling the 3D LUT and Delta Zero Colour Accuracy systems, HCX<sup>2</sup> ensures that even the brightest parts of HDR pictures contain lots of detail, while dark shades enjoy much smoother gradation than LCD and OLED TVs typically achieve.



### DELTA ZERO (Δ0) COLOUR ACCURACY

This feature identifies and compensates for variations in specific colours caused by the individual characteristics of a TV's panel. The result is images that get unprecedentedly close to master monitor levels of accuracy.



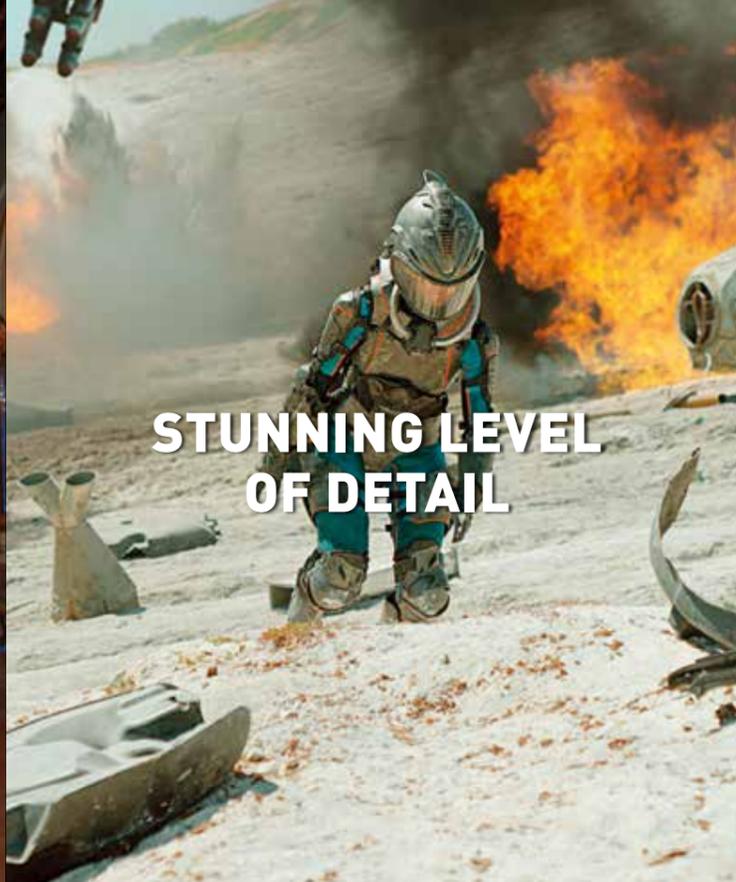
### 3D LOOK-UP TABLES (3D LUT)

Top-tier Panasonic TVs use advanced 3D look-up tables to reproduce colours in extremely fine brightness steps, ensuring that tones look accurate at virtually any brightness level.

PICTURE QUALITY



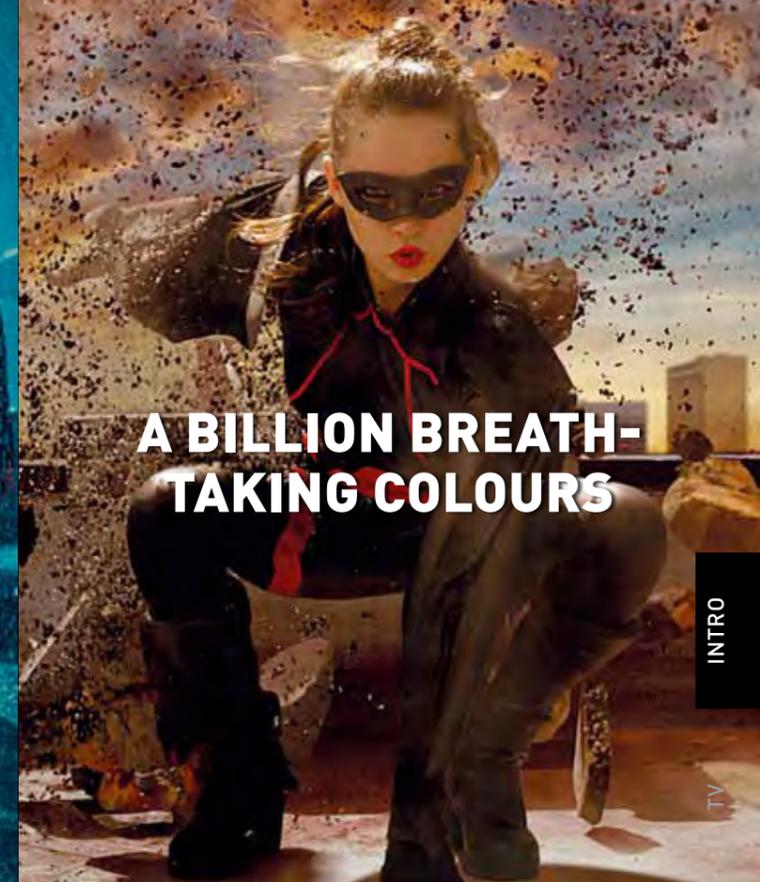
TRULY CINEMATIC PICTURE



STUNNING LEVEL OF DETAIL



DRAMATIC HIGHLIGHTS AND SHADOWS



A BILLION BREATHTAKING COLOURS

# AS NATURE INTENDED

High dynamic range UHD screens join forces with decades of Hollywood know-how to make the latest Panasonic televisions feel like windows on a bold and beautiful new world.

## HIGH DYNAMIC RANGE



### REAL LIFE BRIGHTNESS AND COLOUR

The world you see on your TV has for decades looked more dull and muted than the real world around you. This is about to change, though, thanks to high dynamic range (HDR) technology. HDR content and TVs (including all 2017 Panasonic 4K Ultra HD sets) let you experience pictures containing a far wider range of brightness and colour, making films and TV shows look much more vivid and true to life.



### MULTI HDR SUPPORT

There are different types of HDR standards in the TV world. The latest Panasonic TVs will support HDR10, found on Ultra HD Blu-rays and streamed video services, and Hybrid Log Gamma, which is expected to be used for HDR broadcasts.



### 4K HDR GAME MODE

The latest gaming consoles now let you game in HDR, adding more contrast and richer colours to create more realistic and immersive gaming worlds. Some TVs, though, take so long to render HDR images that they make competitive gaming impossible. All Panasonic HDR TVs, on the other hand, feature 4K HDR Game Modes specifically designed to play HDR pictures as quickly as possible.



## CINEMA DISPLAY



PANASONIC CONVENTIONAL

### PEAK BRIGHTNESS

New ultra-transmissive LCD cells let the latest Panasonic TVs deliver much greater brightness without using significantly more power. The high brightness required for HDR is achieved by high quality LED backlight technology that provides stable average brightness all over the screen. This all makes Cinema Displays perfectly suited to play back of high dynamic range content.



PANASONIC CONVENTIONAL

### WIDE COLOUR SPECTRUM

Wide Colour Phosphor technology lets you experience more vibrant, nuanced and natural colour tones – especially during dark scenes – than you get with normal LCD screens. This technology combines advanced LED backlighting with a new colour filter system to deliver a wider colour range that covers more than 90% of the Digital Cinema Initiative (DCI) colour spectrum.



PANASONIC CONVENTIONAL

### LOCAL DIMMING

The new generation of high brightness LCD panels are great for boosting colours and vibrancy. But they can only truly improve contrast if you can control their brightness in dark picture areas. Local dimming makes this possible by letting separate clusters of a TV's backlights output different brightness levels, so brightness can be reduced for dark areas without compromising the intensity of bright areas.



INTRO TV VIDEO AUDIO ICONS SPECS

SMART FEATURES



# THE BRAINS BEHIND THE BEAUTY

Look beyond the pretty exterior of Panasonic TVs and you'll find an ultra smart heart ready, willing and able to help you find and share content across all the myriad sources available in today's multimedia world.

## FINDING SOMETHING TO WATCH HAS NEVER BEEN SO EASY



### MY HOME SCREEN 2.0

With its graphically rich yet uncluttered and logical onscreen menus, My Home Screen 2.0 makes it easy for the whole family to quickly find their favourite films and TV shows. Especially now that the new Panasonic Media Player 2.0 interface lets you view your photo, video and music collections by date, and on 4K TVs can automatically recognise and play HDR files.



### HOME NETWORK INTEGRATION

IP Home Networking means you can now add your Panasonic TV to a variety of home automation systems (such as Control4). You can then control your TV from your central 'whole home' device, and include your TV in macro command systems that let you, for instance, turn the TV on, adjust your lighting, boost the heating and activate your audio system at the press of a single button.



### VOD STREAMING

With more and more of us binging on streamed TV these days, the latest Panasonic My Home Screen 2.0 platform not only makes it simple to stream shows and clips from Amazon, Netflix and YouTube, but also lets you watch video from those key sources in both 4K and high dynamic range quality\*.

\*Depending on availability and broadband speed.



### VOD STREAMING:

Stream your favourite movies and videos whenever you want.



## WATCH TV WHENEVER AND WHEREVER YOU WANT TO



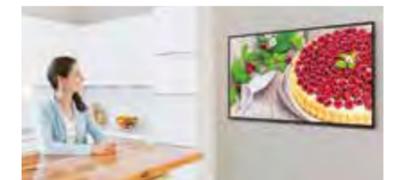
### TWIN HD TUNER

If your Panasonic TV has more than one tuner, you could watch one programme while recording another, or watch one broadcast on TV while someone else watches another on their smartphone or tablet. You could watch two programmes simultaneously on the TV, or keep watching TV while browsing other channels via a small window in the electronic programme guide.



### TV ANYWHERE

Ever wished you could watch TV broadcasts and recordings on your phone or tablet when you're away from home? With TV Anywhere, you can. This ground-breaking feature also lets you set recordings (across multiple devices) while you're out; add TV shows to your smart device playlists; and even enjoy high quality 1.5Mbps pictures if your smart device is on a fast enough network.



### MULTI-ROOM TV WITHOUT CABLES

Once upon a time you had to find a way of getting an aerial, satellite or cable feed into every TV in your home. In-house TV Streaming makes multi-room TV life much easier by letting you stream broadcasts via your home router from one main server TV to other compatible Panasonic TVs. Client TVs are able to receive and handle those IP signals so you can enjoy TV broadcasts everywhere in your home.



INTRO TV VIDEO AUDIO ICONS SPECS



INTRO  
VIDEO  
AUDIO  
FEATURES

# DESIGNED WITH YOU IN MIND

Timeless quality meets personal style in the 2017 Panasonic TV range.

For 2017 Panasonic wants to make TV design all about you. Its latest sets merge ideas of individual style and shared spaces by combining personal features such as swivel and lift functionality with space saving slimness and high-quality materials. This results in practical but elegant designs that integrate seamlessly with any environment.

Art &  
Interior



Lift function is not available on 65", swivel and lift function is not available on 75".



# A NEW WORLD OF PICTURE QUALITY

Introducing the full Panasonic television range for 2017.



EZ1000 SERIES



EZ950 SERIES



EX780 SERIES



EX700 SERIES



EX600 SERIES



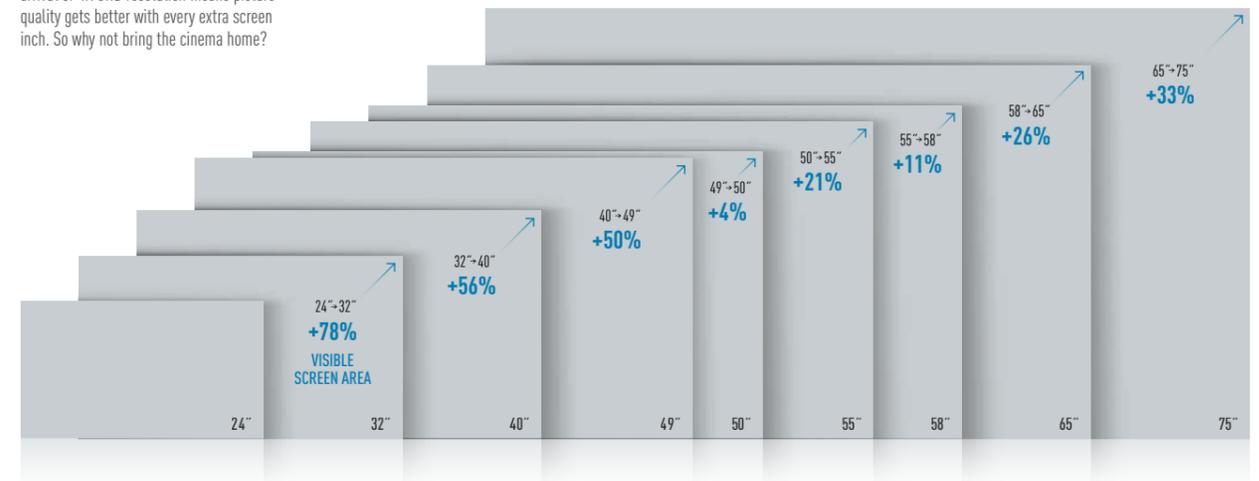
ES500 SERIES



ES400 SERIES

## THE BIGGER THE SCREEN, THE GREATER THE ENTERTAINMENT

There's never been a better time to think bigger for your next TV. Ultra-slim designs make large screens easier to fit in your living room, big-screen TVs are vastly more affordable than they used to be, and the arrival of 4K UHD resolution means picture quality gets better with every extra screen inch. So why not bring the cinema home?





Art & Interior

DARK AND ELEGANT METALLIC FINISH WITH SEAMLESS CONSTRUCTION AND CABLE MANAGEMENT

A NEW 14-SPEAKER 'DYNAMIC BLADE' AUDIO SYSTEM DELIVERS A TRUE HOME CINEMA SOUND EXPERIENCE

Tuned by **Technics**

# THE NEXT GENERATION OF OLED

65"  
164cm



INTRO  
TV  
VIDEO  
AUDIO  
ICONS  
SPECS

## EZ1000 SERIES

TX-65EZ1000 •

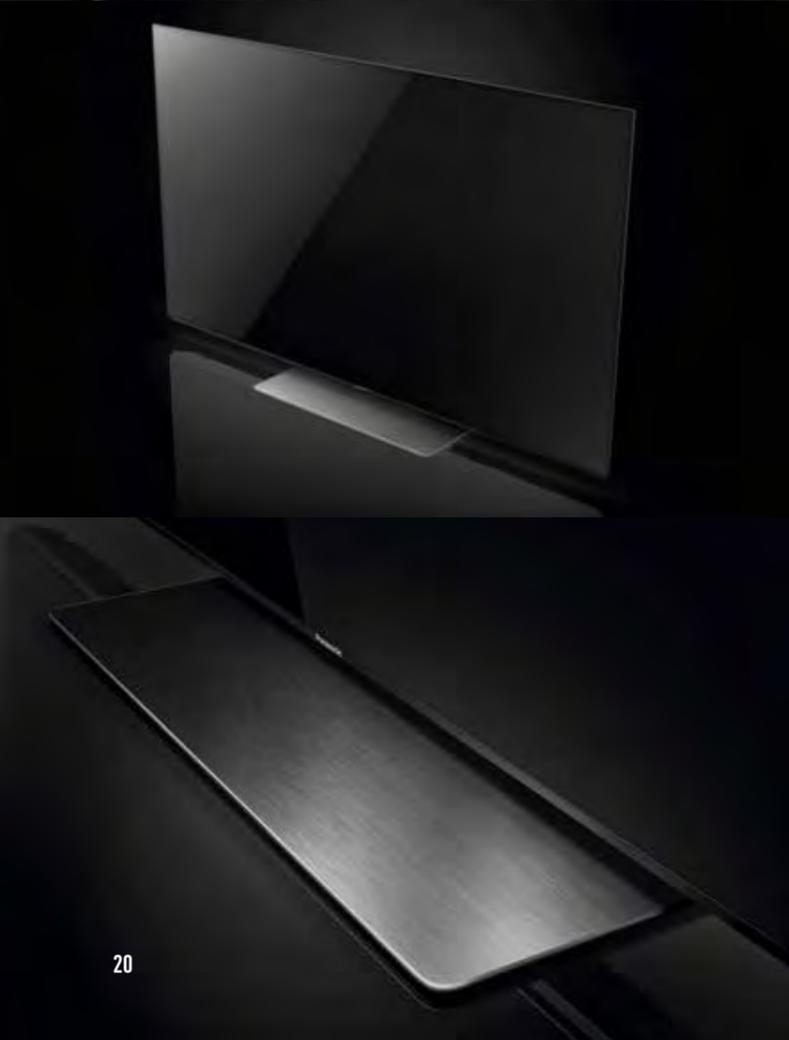
### Ultimate Picture Quality – Hollywood To Your Home



- Master HDR OLED** – original Panasonic driving technology and unique black filter to maximize OLED advantages
- Studio Colour HCX<sup>2</sup> Processor** – professional 3D look-up tables deliver accurate colours for Hollywood Cinema Experience
- Peak Brightness** – extreme brightness boost delivers vivid HDR experience with astounding highlights
- Absolute Black** – zero level black expression for highly precise black gradation
- Picture Tuned in Hollywood** – tuned by Hollywood colourist to deliver an accurate cinema experience true to the filmmaker's vision



4K UHD OLED TV



### Art & Interior

HIGH-QUALITY MATERIALS, ELEGANT LINES AND A PREMIUM FINISH

# HOLLYWOOD IN YOUR LIVING ROOM

65" 164cm

55" 139cm



INTRO

TV

VIDEO

AUDIO

ICONS

SPECS

## EZ950 SERIES

- TX-65EZ950 ●
- TX-55EZ950 ●

### A Truly Cinematic Experience – Tuned In Hollywood



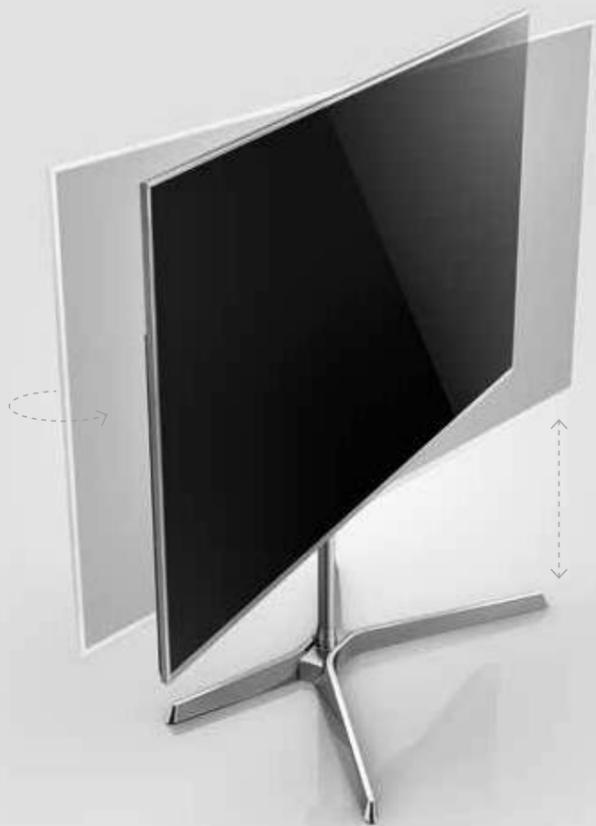
- 4K UHD OLED TV** – next generation TV technology for the ultimate in accuracy and contrast
- Studio Colour HCX<sup>2</sup> Processor** – professional 3D look-up tables deliver accurate colours for Hollywood Cinema Experience
- Peak Brightness** – extreme brightness boost delivers vivid HDR experience with astounding highlights
- Multi HDR Support** – HDR10 and Hybrid Log Gamma support for Blu-ray, streaming and broadcast
- Picture Tuned in Hollywood** – tuned by Hollywood colourist to deliver an accurate cinema experience true to the filmmaker's vision





# TRULY UPLIFTING TELEVISION

- 75" 189cm
- 65" 164cm
- 58" 146cm
- 50" 126cm



Art & Interior

SWIVEL AND LIFT FUNCTIONALITY\* GIVES YOU THE PERFECT VIEWING ANGLE.

\*Lift function is not available on 65", swivel and lift function is not available on 75"



## EX780 SERIES

- TX-75EX780 ●
- TX-65EX780 ●
- TX-58EX780 ●
- TX-50EX780 ●

### Premium Picture Quality With "Swivel & Lift" Design



- 4K UHD LED TV with 2400Hz (BMR)** – cutting-edge Cinema Display for premium picture and motion quality
- Studio Colour HCX<sup>2</sup> Processor** – professional 3D look-up tables deliver accurate colours for Hollywood Cinema Experience
- Super Bright Panel** – high transmittance panel with ultra-efficient backlight produces clear bright images in HDR
- Enhanced Local Dimming** – rich gradation thanks to high quality backlight control and targeted optimization
- Switch Design** – gives you flexibility and harmony for your lifestyle thanks to a unique, "Swivel & Lift"™\*2 pedestal

\*1 58" and 50": A class. \*2 Lift function is not available on 65", swivel and lift function is not available on 75"



# YOUR FLEXIBLE 4K FRIEND

- 65" 164cm
- 58" 146cm
- 50" 126cm
- 40" 100cm



WIDE OR NARROW, SUBTLE OR BOLD - ADJUSTABLE FEET GIVE YOU FOUR\*1 DESIGN OPTIONS



## EX700 SERIES

### Outstanding HDR Images Meet Elegance And Flexibility



- TX-65EX700 ●
- TX-58EX700 ●
- TX-50EX700 ●
- TX-40EX700 ●

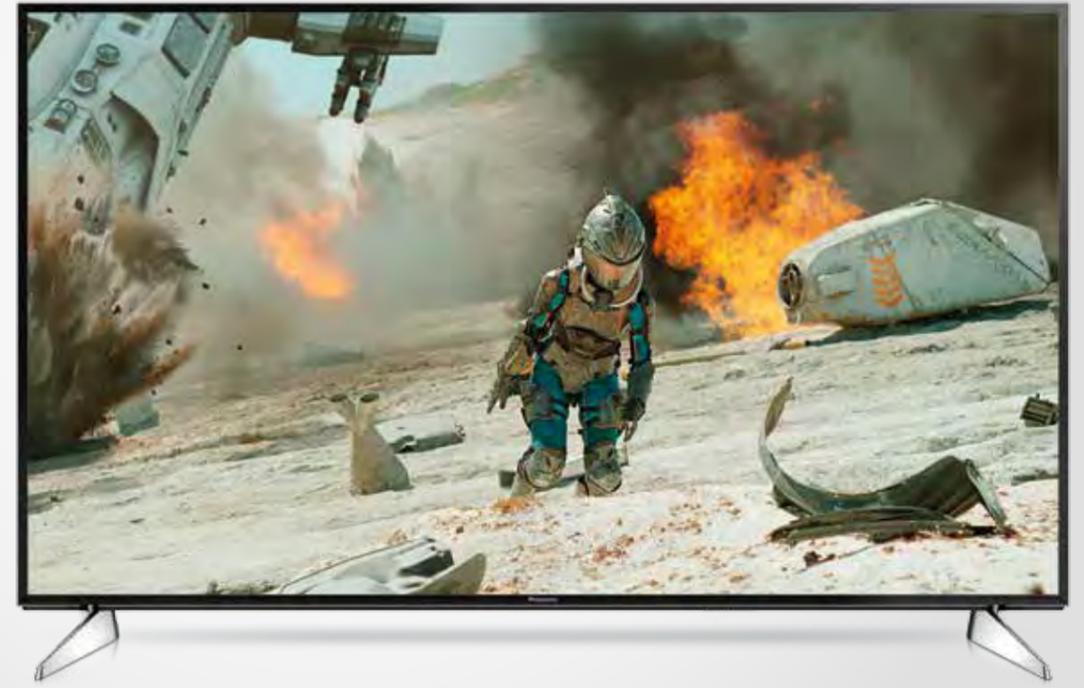
- 4K UHD LED TV with 1600Hz (BMR)** – high-performance panel delivers smooth motion clarity and supreme performance
- Wide Colour Spectrum** – a wider colour range lets you experience more natural scenes and an enhanced viewing experience
- High Dynamic Range (HDR)** – get ready for life-like images that are much closer to the way your eyes see the real world
- Local Dimming** – rich gradation thanks to high quality backlight control and optimization
- Switch Design** – gives you flexibility and harmony for your lifestyle thanks to a smart, adjustable pedestal\*2

\*1 65": A+ class. \*2 Depending on screen size, two styles for 40"



# YOUR TV, YOUR STYLE

- 65" 164cm
- 55" 139cm
- 49" 123cm
- 40" 100cm



DISTINCTIVE BLADE-STYLE FEET CAN BE ATTACHED IN FOUR\*1 DIFFERENT WAYS



## EX600 SERIES

### Brilliant 4K HDR Images And Flexible "Switch" Design



- TX-65EX600 ●
- TX-55EX600 ●
- TX-49EX600 ●
- TX-40EX600 ●

- 4K UHD LED TV with 1300Hz (BMR)** – advanced 4K panel for excellent picture quality and clear motion
- High Dynamic Range (HDR)** – get ready for life-like images that are much closer to the way your eyes see the real world
- Adaptive Backlight Dimming** – enjoy crisp dark scenes and high contrast thanks to the constantly optimised backlight
- Switch Design** – gives you flexibility and harmony for your lifestyle thanks to a smart, adjustable pedestal\*1
- My Home Screen 2.0** – intuitive easy-to-use interface with powerful media player

\*1 Depending on screen size, two styles for 40"



# HIGH-DEFINITION HERO

- 49" 123cm
- 40" 100cm
- 32" 80cm
- 24" 60cm



## ES500 SERIES

### High Contrast Images With Extensive Smart Functionality



- TX-49ES500 ●
- TX-40ES500 ●
- TX-32ES500 ●
- TX-24ES500 ●

- Full HD\*1 LED TV with 600Hz (BMR)** – high-speed panel for great motion picture quality
- Swipe & Share** – share and stream pictures, movies and music from your iOS and Android smartphones via the Panasonic TV Remote 2 app
- Adaptive Backlight Dimming** – enjoy crisp dark scenes and high contrast thanks to the constantly optimised backlight
- In-house TV Streaming** – place the TV anywhere in your home and enjoy programmes streamed from a dedicated server
- My Home Screen** – customise the start-up screen to quickly access your favourite apps or the App Market

\*1 Depending on screen size, 24" and 32": HD Ready



# SMART BY STYLE, SMART BY NATURE

- 49" 123cm
- 40" 100cm
- 32" 80cm



## ES400 SERIES

### Full HD Smart Entertainment With Classic Design



- TX-49ES400 ●
- TX-40ES400 ●
- TX-32ES400 ●

- Full HD\*1 LED TV with 400Hz (BMR)** – enjoy clear motion quality and bright picture in Full HD resolution
- Swipe & Share** – share and stream pictures, movies and music from your iOS and Android smartphones via the Panasonic TV Remote 2 app
- Adaptive Backlight Dimming** – enjoy crisp dark scenes and high contrast thanks to the constantly optimised backlight
- In-house TV Streaming** – place the TV anywhere in your home and enjoy programmes streamed from a dedicated server
- My Home Screen** – customise the start-up screen to quickly access your favourite apps or the App Market

\*1 Depending on screen size 32": HD Ready



# TV FEATURES OVERVIEW



EZ1000 SERIES

65" 164cm  
OLED



EZ950 SERIES

65" 164cm 55" 139cm  
OLED



EX780 SERIES

75" 189cm 65" 164cm 58" 146cm 50" 126cm



EX700 SERIES

65" 164cm 58" 146cm 50" 126cm 40" 100cm



EX600 SERIES

65" 164cm 55" 139cm 49" 123cm 40" 100cm



ES500 SERIES

49" 123cm 40" 100cm 32" 80cm 24" 60cm



ES400 SERIES

49" 123cm 40" 100cm 32" 80cm

# TECHNOLOGY COMPARISON

Series	EZ1000	EZ950	EX780	EX700	EX600	ES500	ES400
<b>RESOLUTION</b>	Technology						
	4K PRO HDR	4K PRO HDR	4K PRO HDR	4K HDR	4K HDR	FULL HD	FULL HD
<b>PICTURE &amp; SOUND QUALITY</b>	Motion (Hz)						
	OLED SUPERB MOTION DRIVE	OLED SUPERB MOTION DRIVE	2400Hz	1600Hz	1300Hz	600Hz	400Hz
	Contrast						
	ULTIMATE CONTRAST	ULTIMATE CONTRAST	SUPREME CONTRAST	BRILLIANT CONTRAST	HIGH CONTRAST	HIGH CONTRAST	HIGH CONTRAST
	4K HDR Game Mode						
	4K HDR GAME MODE	4K HDR GAME MODE	4K HDR GAME MODE	4K HDR GAME MODE	4K HDR GAME MODE		
	Brightness						
	MASTER HDR	OLED	SUPER BRIGHT PANEL	BRIGHT PANEL	BRIGHT PANEL	BRIGHT PANEL	BRIGHT PANEL
	Sound						
	Tuned by Technics	VR-Audio	VR-Audio	VR-Audio	VR-Audio	VR-Audio	VR-Audio
	Pure Direct						
	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	100W PURE DIRECT	100W PURE DIRECT
	Rendering Processor / Engine						
	STUDIO COLOUR HX2	STUDIO COLOUR HX2	STUDIO COLOUR HX2				
	Local Dimming						
	INFINITE BLACK	SELF-EMITTING TECHNOLOGY	LOCAL DIMMING	LOCAL DIMMING	ADAPTIVE BACKLIGHT DIMMING	ADAPTIVE BACKLIGHT DIMMING	ADAPTIVE BACKLIGHT DIMMING
	Enhanced Colour						
	WIDE COLOUR SPECTRUM	WIDE COLOUR SPECTRUM	WIDE COLOUR SPECTRUM	WIDE COLOUR SPECTRUM			
	THX Certification						
	THX	THX					
	HDR						
	HDR	HDR	HDR	HDR	HDR		
	ISF Calibration						
	ISF	ISF					
	Design						
	Art & Interior	Art & Interior	SWITCH DESIGN	SWITCH DESIGN	SWITCH DESIGN		
<b>ECO</b>	Energy Efficiency Class						
	B	B	A+	A	A	A	A

\*1 24" and 32": HD ready / \*2 32": HD ready / \*3 not for 24" / \*4 Lift function is not available on 65", swivel and lift function is not available on 75" / \*5 1 pedestal, 4 styles (2 styles for 40") / \*6 TX-58EX780E, TX-50EX780E: A class / \*7 TX-65EX700E: A+ class

## SMART FEATURES

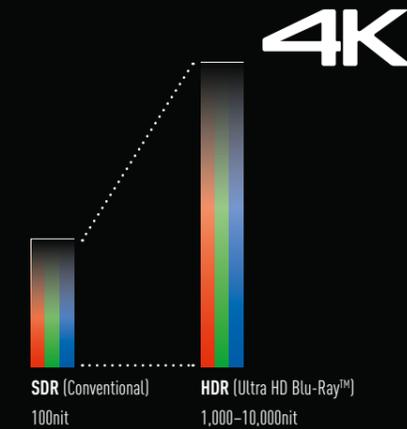
Series	EZ1000	EZ950	EX780	EX700	EX600	ES500	ES400
<b>SMART FEATURES</b>	Media Player						
	4K MEDIA PLAYER	4K MEDIA PLAYER	4K MEDIA PLAYER	4K MEDIA PLAYER	4K MEDIA PLAYER	MEDIA PLAYER	MEDIA PLAYER
	Smart TV						
	INTERNET APPS	INTERNET APPS	INTERNET APPS	INTERNET APPS	INTERNET APPS	INTERNET APPS	INTERNET APPS
	Wireless LAN						
	WIRELESS LAN	WIRELESS LAN	WIRELESS LAN	WIRELESS LAN	WIRELESS LAN	WIRELESS LAN	WIRELESS LAN
	Web Browser						
	Web Browser	Web Browser	Web Browser	Web Browser	Web Browser	Web Browser	Web Browser
	Easy Mirroring						
	EASY MIRRORING	EASY MIRRORING	EASY MIRRORING	EASY MIRRORING	EASY MIRRORING	EASY MIRRORING	EASY MIRRORING
	In-house TV Streaming (except UK)						
	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING	IN-HOUSE TV STREAMING
	USB Recording						
	USB HDD RECORDING	USB HDD RECORDING	USB HDD RECORDING	USB HDD RECORDING	USB HDD RECORDING	USB HDD RECORDING	USB HDD RECORDING
	Quattro Tuner						
	QUATTRO TUNER	QUATTRO TUNER	QUATTRO TUNER				
	IP Home Network						
	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK
<b>EASY OPERATION</b>	Processing						
	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO	REALITY	REALITY
	My Home Screen 2.0						
	my Home Screen	my Home Screen	my Home Screen	my Home Screen	my Home Screen	my Home Screen	my Home Screen
	Voice Assistant						
	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	
	Panasonic TV Remote 2 app						
	REMOTE APP 2	REMOTE APP 2	REMOTE APP 2	REMOTE APP 2	REMOTE APP 2	REMOTE APP 2	REMOTE APP 2
	Swipe & Share						
	4K SWIPE & SHARE	4K SWIPE & SHARE	4K SWIPE & SHARE	4K SWIPE & SHARE	4K SWIPE & SHARE	SWIPE & SHARE	SWIPE & SHARE
	TV Anywhere (except UK)						
	TV ANYWHERE	TV ANYWHERE	TV ANYWHERE	TV ANYWHERE	TV ANYWHERE		
	Touch Pad Remote						
	TOUCH PAD REMOTE	TOUCH PAD REMOTE					



## MAKING PIXELS BETTER



The new generation of Ultra HD Blu-ray Disc™ media doesn't just give you the resolution you need to unlock the full power of your 4K TV. It also uses a new technology called High Dynamic Range (HDR) to present pictures that have a greater brightness range, more contrast and a wider colour response. This means images look much more like they would have done in a cinema, and much more accurate to the director's original intentions.



# BLU-RAY™ GOES ULTRA HD

Enter a whole new world of picture and sound quality with Panasonic's Ultra HD Blu-ray™ Players.



### UNLOCK THE FULL BEAUTY OF 4K

Normal Blu-ray™ players only output video with a resolution of 1,920 x 1,080px. Today's 4K UHD TVs, however, show pictures with resolutions of 3,840 x 2,160px. So when they're fed a standard HD Blu-ray™ picture, they have to 'upconvert' it to their higher resolutions rather than delivering the purity you get with a true 4K source. The new generation of Ultra HD Blu-ray™ Players from Panasonic deliver pictures to your UHD TV with a native 3,840 x 2,160px resolution, giving you pixel-for-pixel clarity.



### EXCLUSIVE PICTURE QUALITY

All Panasonic Ultra HD Blu-ray™ players benefit from the exclusive Panasonic HCX Processor with HDR capabilities. This expands the usual colour reproduction\*1 capabilities of Ultra HD Blu-ray™ to deliver more nuanced and natural pictures, full of life-like depth and vivid colours. All Panasonic UHD Blu-ray™ decks also provide 4K Direct Chroma Upscaling for peerless conversion of HD Blu-ray™ to 4K UHD. All Panasonic Ultra HD Blu-ray™ players are Ultra HD™ Premium certified.

\*1 A 4K/60p/4:4:4-compatible TV must be connected with an 18Gbps-compatible high-speed cable. When reproducing Ultra HD Blu-ray™ content, 4:4:4/36-bit data is output for 4K/24p, and 4:2:2/36-bit data is output for 4K/60p.



### HIGH-QUALITY SOUND

Panasonic Ultra HD Blu-ray™ players are packed with high-end audio technology. All four models play high-resolution audio files such as FLAC, DSD, AAC and WAV, and the UB900, UB700 and UB400 carry two HDMI outputs so that sound and video signals can be output separately. The UB900 additionally deploys high-quality components throughout (including a 192kHz/32-bit DAC and USB power conditioner) and gold-plated 7.1-channel analogue audio outputs.



### THX CERTIFIED

THX\*2 is an independent organisation set up to help consumers find the home entertainment products that offer the most cinematic experiences. The DMP-UB900 has passed all of THX's stringent laboratory tests – including new picture and sound requirements introduced specifically for 4K players – to earn THX certification, proving it's capable of reproducing the finely nuanced colours and rich detailed images that the film creator intended, along with life-like surround sound.

\*2 THX and the THX Certified logo are trademarks of THX Ltd., registered in the United States and other jurisdictions. All rights reserved. Exclusive Panasonic Picture Quality.



### 4K STREAMING SUPPORT

The Panasonic 4K Blu-ray™ Players won't just play 4K video from Ultra HD Blu-ray Disc™ media. They are also capable of playing the hundreds of hours of 4K UHD streams now available via online video services. You can enjoy the offered high-profile and critically acclaimed shows in glorious 4K picture quality.



### SEE YOUR LIFE IN 4K

Most digital cameras already take photographs at 4K resolution or higher, and a few cameras – such as the Panasonic DMC-FZ1000 – and camcorders can record video in 4K. Panasonic UHD Blu-ray™ decks can play such sources through to your 4K television, letting you experience your family snaps and home videos\*3 on your TV with the sort of sharpness and detail you'd normally only get with a Hollywood blockbuster!

\*3 Photos must be JPEGs, videos must be in MP4.





# PERFECT PICTURES EVERY TIME



## UB900

### Ultra HD Blu-ray™ Player for Highest Quality Experience

DMP-UB900 ○

- Ultimate Ultra HD home cinema** – thanks to 4K/HDR playback and THX Certification for the highest viewing experience
- True 4K experience** – 4K High-Precision Chroma Processor delivers 4K Blu-ray Disc™ and Video on Demand in sublime quality
- Highest Audio Standards** – 2x HDMI output, playback of various High Res audio formats, 4x 192kHz/32-bit DAC, gold-plated 7.1-channel analogue output
- Easy networking** – integrated Wi-Fi gives you convenient access to Internet apps, DLNA, Miracast™ and many more
- Full flexibility** – conveniently play back films, photos and music from diverse media such as disc, USB, SD or PC/NAS



## UB700

DMP-UB700 ●



### Ultra HD Blu-ray™ Player Brings Hollywood to Your Home

- Stunning 4K experience** – 4K Direct Chroma Up-Scaling and 4K/HDR playback delivers outstanding 4K quality
- HCX Processor with HDR** – supervised by Panasonic Hollywood Laboratory to deliver picture quality true to the filmmaker's intent
- Easy networking** – easily access Internet apps, DLNA streaming and other network features via the Wireless LAN
- Full flexibility** – conveniently play back films, photos and music from diverse media such as disc, USB, SD or PC/NAS
- True home cinema** – Twin HDMI output delivers uncompromised picture quality to your TV and dedicated audio output to your audio amplifier



Direct Chroma Upscaling



## UB400

DMP-UB400 ●



### Ultra HD Blu-ray™ Player with Precise Chroma Processing

- Great 4K entertainment** – thanks to 60p output, 4K Direct Chroma Up-Scaling and 4K/HDR playback
- HCX Processor with HDR** – supervised by Panasonic Hollywood Laboratory to deliver picture quality true to the filmmaker's intent
- Full flexibility** – conveniently play back films, photos and music from diverse media such as disc, USB, SD or PC/NAS
- More viewing enjoyment** – Internet app support boosts your entertainment with Video on Demand and Web browsing
- True-to-life audio** – delivered by 2x HDMI output, 192kHz/96kHz Surround Re-master and High-resolution Audio Playback



Direct Chroma Upscaling



## UB300/310

DMP-UB300 ●

DMP-UB310 ●



### Ultra HD Blu-ray™ Player for Extraordinary Picture Quality

- 4K with every film** – 4K Direct Chroma Up-Scaling and 4K/HDR playback deliver stunning 4K quality via Panasonic's Pro4 chip and HDMI 2.0
- HCX Processor with HDR** – supervised by Panasonic Hollywood Laboratory to deliver picture quality true to the filmmaker's intent
- Full flexibility** – conveniently play back films, photos and music from diverse media such as disc, USB, SD or PC/NAS
- Full entertainment access** – enjoy 4K with exciting Internet apps like Netflix
- Ultimate ease of use** – enjoy quick and comfortable control via VIERA Link

\*DMP-UB310 only with WiFi Built-In.



Direct Chroma Upscaling



# HOME CINEMA HEROES



## BDT570

DMP-BDT570 ●



### Premium Blu-ray™ Player for Extraordinary Picture and Sound Quality

**4K with every film** – 4K Direct Chroma Up-Scaling delivers stunning 4K quality via the Pro4 chip and HDMI 2.0  
**Wide connectivity** – 2x HDMI output with High Res audio, 4x 192kHz/32-bit DAC, gold-plated 7.1-channel analogue output  
**Wireless networking** – built-in Wi-Fi for access to Internet apps, Video on Demand like Amazon Instant Video and Netflix  
**Full flexibility** – conveniently play back films, photos and music from diverse media such as disc, USB, SD or PC/NAS  
**Ultimate ease of use** – enjoy quick and comfortable control via VIERA Link and the Dual Core Processor



**Direct Chroma**  
Upscaling



## BDT380/381

### Sleek Blu-ray™ Player Delivering 4K and 3D Content

DMP-BDT380 ● ●  
 DMP-BDT381 ●



BDT380

**Premium Ultra HD entertainment** – thanks to 4K Ultra HD Up-Scaling and 4K JPEG playback  
**Breathtaking images** – marvel at stunning movies or favourite series on Blu-ray™ in perfect Full HD 2D and 3D quality  
**Wireless networking** – built-in Wi-Fi for access to Internet apps, Video on Demand like Amazon Instant Video and Netflix  
**Ease of use** – enjoy fast and convenient control via HDMI and the Dual Core Processor  
**Wide flexibility** – play back films, photos and music within your home network or from a USB storage device or PC/NAS



## BDT280/281

### Compact Blu-ray™ Player for 4K Up-Scaling and 3D Entertainment

DMP-BDT280 ●  
 DMP-BDT281 ●



BDT281

**Spectacular home cinema** – in Ultra HD via 4K Ultra HD Up-Scaling or in breathtaking 3D picture quality  
**Full entertainment access** – enjoy exciting Internet apps like Amazon Instant Video, Netflix or YouTube  
**Essential flexibility** – play back films, photos and music within your home network via DLNA or from a USB storage device  
**Easy networking** – easily hook up to your home network via the LAN port  
**Ease of use** – enjoy fast and convenient control via HDMI and the Dual Core Processor





# MOVIE MAESTROS



## BDT180/181

**Stylish Blu-ray™ Player Gets You Started with 4K Up-Scaling**

- DMP-BDT180 ●
- DMP-BDT181 ○



BDT181

**Spectacular home cinema** – in Ultra HD via 4K Ultra HD Up-Scaling or in breathtaking 3D picture quality  
**Full entertainment access** – enjoy exciting Internet apps like Amazon Instant Video, Netflix or YouTube  
**Essential flexibility** – play back films, photos and music within your home network via DDLA or from a USB storage device  
**Easy networking** – easily hook up to your home network via the LAN port  
**Ease of use** – enjoy fast and convenient control via HDMI and the Dual Core Processor



BDT168



BDT167

## BDT167/168

**High-Quality Blu-ray™ Player Delivering Great 3D Images**

- DMP-BDT167 ●
- DMP-BDT168 ○



BDT168

**Breathtaking images** – marvel at stunning movies or your favourite series on Blu-ray™ in perfect Full HD 2D and 3D quality  
**Home cinema feeling** – turn any DVD into Full HD with Full HD Up-Scaling  
**Full entertainment access** – enjoy exciting Internet apps like Amazon Instant Video, Netflix or YouTube  
**Easy networking** – easily hook up to your home network via the LAN port  
**Highly flexible** – conveniently play back films, photos and music from a USB storage device or external hard disk drive



## BD84

**Essential Blu-ray™ Player for Great Full HD Home Cinema**

- DMP-BD84 ●●



**Amazing images** – marvel at stunning movies or your favourite series on Blu-ray™ in perfect picture quality  
**Home cinema feeling** – turn any DVD into Full HD with Full HD Up-Scaling  
**Full entertainment access** – enjoy exciting Internet apps like Amazon Instant Video, Netflix or YouTube  
**Easy networking** – easily hook up to your home network via the LAN port  
**Highly flexible** – conveniently play back films, photos and music from a USB storage device or external hard disk drive





# PERFECT RECORDINGS EVERY TIME



BST950

## BLU-RAY™ RECORDER With 2TB, 1TB, 500GB or 250GB Storage Capacity

- DMR-BST950\*1, DVB-S, 2TB
- DMR-BST850\*1, DVB-S, 1TB
- DMR-BST855\*1, DVB-S, 1TB
- DMR-BST750\*1, DVB-S, 500GB
- DMR-BST755\*1, DVB-S, 500GB
- DMR-BST650\*1, DVB-S, 500GB
- DMR-BCT950\*1, DVB-C, 2TB
- DMR-BCT850\*1, DVB-C, 1TB
- DMR-BCT855\*1, DVB-C, 1TB
- DMR-BCT750\*1, DVB-C, 500GB
- DMR-BCT755\*1, DVB-C, 500GB
- DMR-BCT650\*1, DVB-C, 500GB
- DMR-BCT84\*5, DVB-T, 1TB
- DMR-BWT850\*2\*3, DVB-T, 1TB
- DMR-BWT745\*4, DVB-T, 1TB
- DMR-BWT640\*3, DVB-T, 250GB



BST855

**Ultimate viewing and recording** – experience Full HD entertainment in 3D and 4K, and archive onto Blu-ray Disc™  
**Entertainment everywhere** – with TV Anywhere watch both recorded programmes and live broadcasts on your smartphone/tablet  
**Many recording options** – simultaneously record up to three programmes in stunning HD with the Triple or Twin HD Tuner  
**Remote control** – use your smartphone/tablet anywhere to set up timer-recording of TV programmes via Remote Recording



DMR-BST950 / DMR-BCT950	•	•	•	•	•
DMR-BST850 / DMR-BCT850	•	•	•	•	•
DMR-BST855 / DMR-BCT855	•	•	•	•	•
DMR-BST750 / DMR-BCT750	•	•	•	•	•
DMR-BST755 / DMR-BCT755	•	•	•	•	•
DMR-BST650 / DMR-BCT650				• [1x]	
DMR-BCT84	•	•	•	• [1x]	
DMR-BWT850	•	•	•	•	•
DMR-BWT745	•	•	•	•	•
DMR-BWT640	•				[Wi-Fi ready]

\*1 For Germany, Austria and Switzerland only. / \*2 For UK only, Freeview Play Function supported. / \*3 For France and Spain only. / \*4 For France only. / \*5 For Nordics only.

## HDD RECORDER

- DMR-PWT655\*2, DVB-T, 1TB
- DMR-PWT535\*1, DVB-T, 250GB
- DMR-PWT550\*2, DVB-T, 500GB



PWT550



PWT550

### With 1TB, 500GB or 250GB Storage and 3D Blu-ray™ Player

**Outstanding viewing and recording** – experience Full HD entertainment in 2D or 3D and store onto the built-in HDD  
**Highly convenient** – view the EPG on your smartphone or tablet and set up recordings, all while watching TV  
**Full flexibility** – record two programmes simultaneously in HD with the Twin HD Terrestrial Tuner  
**Numerous online applications** – enjoy exploring entertainment options via Internet Apps



DMR-PWT655*2	•	•	•	•	•
DMR-PWT535*1	•	•	•	•	•
DMR-PWT550*2	•	•	•	•	•

\*1 For France and Spain only. / \*2 For UK only, Freeview Play Function supported.

## HDD RECORDER

- DMR-HWT250\*1, DVB-T, 1TB
- DMR-HWT150\*1, DVB-T, 500GB
- DMR-HWT130\*1, DVB-T, 500GB



HWT250



HWT250

### With 1TB or 500GB Storage Capacity

**Excellent recording** – store 2D and 3D High Definition entertainment onto the built-in HDD  
**Highly convenient** – view the EPG on your smartphone or tablet and set up recordings, all while watching TV  
**Full flexibility** – record two programmes simultaneously in HD with the Twin HD Terrestrial Tuner  
**Numerous online applications** – enjoy exploring entertainment options via Internet Apps



DMR-HWT250*	•	•	•	•	•
DMR-HWT150*	•	•	•	•	•
DMR-HWT130*	•	[Wi-Fi ready]	•	•	•

\*1 For UK only, Freeview Play Function supported.



# ALL Connected Audio



# A SPEAKER FOR EVERY OCCASION

With expanded source support and more unique designs, there's an ALL Series product for all your rooms and needs.



## MUSIC EVERYWHERE

With its sleek, portable and waterproof design, simple six-button operating system and ability to run on battery power, the ALL05 means you can keep listening to your favourite songs when you're in the bath, kitchen or garden without having to worry if it slips into the tub or gets covered in food or dirty handprints.



## WALL OF SOUND

The SC-HC1020's ingenious design means it can be hung on the wall without compromising its sound quality. In fact, a special sound mode lets it use the wall to create a wider soundfield. It's impossibly slender form also finds room for a DAB radio, as well as a built-in CD player from which you can re-stream your favourite discs to other wireless Panasonic speakers all around your home.



## MAKE YOUR TV A CINEMA

As well as letting you stream your TV audio to other rooms, the ALL70T soundbar delivers an audio performance that's far superior to anything you can get from your TV's built-in speakers. It can even be partnered with a pair of Panasonic ALL6 as rear speakers to create a multi-channel wireless surround sound system.



## Listen Without Limits

### SOMETHING FOR EVERYONE

This year's Panasonic ALL Series includes a portable and waterproof model, high-resolution audio models, models with CD players, models with clock radios, models to make your TV sound better ... No matter what you need, the ALL Series has it covered.



## MUSIC TO WAKE UP WITH

The ALL2 is designed to make waking up fun. Its six one-touch buttons make it easy to use in a darkened room or when you're still half asleep, while its compact, upright design and built-in clock radio make it perfectly suited for setting up on a bedside table.



## THE CD LOVER'S OPTION

Tucked inside the ALL7CD's designer body is everything a true music lover needs. Its 40W speaker system supports playback of high-resolution sound formats like FLAC and AAC, it's got 4GB of memory for ripping your favourite CDs, it supports Bluetooth® and radio playback, and it can even re-stream all of these audio sources to other ALL products around your home.



## ALL SERIES AROUND THE HOUSE

Thanks to the peerless diversity of and flexibility of Panasonic ALL series, your music is no longer locked to a single room. You can effortlessly set up a wireless network of ALL Series products all around your home, so that your favourite music keeps you company no matter where in your house you might go. The latest expanded range of ALL products comes in a huge variety of shapes, colours and sizes too, meaning there's now a model that's perfect for every room in your home.



# MAKING MUSIC STREAMING SIMPLE

Panasonic's latest Music Streaming App puts the easy in 'easy listening'!

## ALL MUSIC, NO HASSLE

Panasonic has made setting up and using ALL Series products as intuitive as possible thanks to its latest Music Streaming App. Adding new ALL products to your network, for instance, involves little more than just selecting them from the app. The latest app also features an ultra-intuitive layout and gives one-stop control over all your music playback options, from Bluetooth®, CD, radio and USB re-streaming to direct links to AllPlay-compatible music apps like Spotify, Napster and Tuneln. The ALL Series really does make the once complex world of multi-room music so simple that anyone can do it.



## QUICK & EASY MUSIC APP WITH INTUITIVE OPERATION

- 1 Quick mode selection with Play, Browse, Queue**  
One screen shows all modes using a multi-layer layout.
- 2 Easy Operation with Drag & Drop**  
Selecting songs and grouping speakers are easily handled with the Drag & Drop function.
- 3 Easy installation with guidance**  
The GUI guides the wireless network setting step by step to add new AllPlay speakers.



## AMAZING SOUND QUALITY

The peerless diversity and sleek design of the ALL Series product range is partnered with uncompromising sound quality. Each individual product features high-quality components and a speaker system that's been specially created to suit its unique shape, size and purpose, resulting in much larger and more detailed sound than you would think possible from such practically-sized products.



## CD STREAMING

With the ALL Series, you're not restricted to streaming digital music stored on computers or smart devices. Innovative Panasonic re-streaming technology means you can also 'live stream' music from CDs, digital radio broadcasts, TV audio, Bluetooth® audio sources and even the sound from YouTube videos from one ALL device to any others you've got installed around your home.



## BUILT FOR MUSIC LOVERS

As well as offering 4GB of built-in memory for storing ripped CDs that you can access via five preset buttons, the new ALL7CD is a masterpiece of design. Inside its compact, stylish body is a wealth of high-end audio innovation including 3rd generation LincsD-Amp amplification to reduce distortion, a twisted acoustic port to boost bass, a 50kHz tweeter for smooth trebles and a 6.5cm Nano Bamboo speaker driven by a large magnet to produce an open, natural sound.



# DREAMY DESIGN, STUNNING SOUND



**ALL**  
Connected Audio

## HC1020

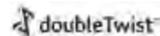
SC-HC1020 ● ●



### ALLPlay™ Wireless Connected Audio System for Modern Living

- Full compatibility** – fill your daily life with music from CDs, radio, your smartphone/tablet via Bluetooth®, USB and music streaming services
- Elegant design** – harmonise any space and enjoy the stylish wall-mountable design with an optimised sound mode
- Natural sound** – experience music exactly as it was meant to be heard thanks to wall-mount mode for room-filling sound experience
- Easy to use** – enjoy your favourite music with just one-touch of preset buttons for your favourite radio programmes
- CD streaming** – re-stream your favourite CDs from the HC1020 to all other ALL Connected Audio compatible speakers in your home

Music Streaming services supported by Panasonic:



3rd generation





# MUSICAL STYLE

ALL Connected Audio 



## ALL7CD

SC-ALL7CD ○ ●



### ALLPlay™ Wireless Speaker with Convenience and Style

**Elegant wireless system** – add more style to your home and boost your audio experience with total convenience  
**Full compatibility** – play your favourite CDs, radio or other music sources such as radio (UKW/DAB+), Bluetooth® and USB  
**Ready for your CDs** – store your favourite CDs on the 4GB internal disk and quickly access them via five pre-set buttons  
**High-quality listening** – revel in the harmonious, balanced sound from four built-in speakers and Twisted Acoustic Ports  
**Enjoy music online** – use via apps of popular music streaming services such as Spotify, Napster, AllPlay Radio and more



ALL Connected Audio



## ALL5CD

SC-ALL5CD ●



### ALLPlay™ Wireless Compact System with CD Player

**Great diversity** – enjoy music from CDs, radio, your smartphone/tablet via Bluetooth®, USB and music streaming services  
**Free your music** – send all your favourite music to other ALL speakers\* everywhere in your home  
**Easy wireless re-streaming** – enjoy every music via your mobile device with Bluetooth® or via other ALL series speakers\*  
**CD-collection compatible** – play your favourite CDs and listen to them via all other ALL speakers in your home  
**Enjoy music online** – use via apps of popular music streaming services such as Spotify, Napster, AllPlay Radio and more

\*Other ALL Series speakers are optional and not included.



ALL Connected Audio



## ALL1C

SH-ALL1C ●



### ALLPlay™ Wireless Connector for Existing Speakers

**Easy connectivity** – digital and analogue outputs let you enter your new multi-room streaming world  
**High audio standards** – perfect transformation of digital into analogue signals thanks to 192kHz/24-bit DAC  
**Full control** – directly from compatible music streaming service via the music subscription service app/Internet radio  
**Party-like atmosphere** – stream music simultaneously to multiple speakers throughout the home with Party Mode  
**Individual listening pleasure** – stream multiple songs within the same network to separate speakers with Multi-Zone



ALL  
Connected Audio



## ALL9

### ALLPlay™ Wireless Speaker for Full Audio Experience

SC-ALL9 ● ○



**Powerful wireless speaker** – use as a stereo or surround system for your TV, with 80W (RMS) of power output  
**Easy to use** – customise its one-touch buttons with your favourite programmes and Internet radio stations  
**Easy wireless re-streaming** – enjoy music via Bluetooth® or AUX-In and share with other ALL Series speakers\*  
**Powerful system** – revel in 2.1-channel surround through five built-in speakers, integrated subwoofer and XBS Master  
**Enjoy music online** – use via apps of popular music streaming services such as Spotify, Napster, AllPlay Radio and more



ALL  
Connected Audio

SURROUND SOLUTION WITH ALL70T



## ALL6

### ALLPlay™ Wireless Speaker Delivers Greater Listening

SC-ALL6 ● ○



**High-quality speaker** – get 40 Watts (RMS) of power output power and extra-bass feeling thanks to XBS Master  
**Flexible set-up** – expand your audio experience by turning the speaker into a multi-room, stereo or surround sound system  
**Easy wireless re-streaming** – enjoy every music via your mobile device with Bluetooth® or via other ALL Series speakers\*  
**Enjoy music online** – use via apps of popular music streaming services such as Spotify, Napster, AllPlay Radio and more  
**Easy to use** – customise two one-touch buttons with your favourite programmes and Internet radio stations



ALL  
Connected Audio



## ALL05

### ALLPlay™ Wireless Speaker for Great Music Anywhere

SC-ALL05 ● ○



**High-quality music on the go** – take this portable ALL speaker with you and enjoy up to 9 hours of listening time  
**Waterproof listening** – use it under the shower, while taking a relaxing bath or when cooking in the kitchen  
**Easy wireless re-streaming** – enjoy YouTube audio and share with other ALL Series speakers\* via Bluetooth®  
**Easy to use** – customise up to six one-touch buttons with your favourite programmes and Internet radio stations  
**Flexible set-up** – expand your audio experience by turning the speaker into a multi-room or stereo sound system



ALL  
Connected Audio



## ALL2

### ALLPlay™ Wireless Speaker for Music throughout the Home

SC-ALL2 ● ○



**ALLPlay™ Wireless Speaker** – use as stereo or surround sound system with other ALL speakers  
**Easy to use** – customise six one-touch buttons with your favourite programmes and Internet radio stations  
**Easy wireless re-streaming** – enjoy YouTube audio and share with other ALL Series speakers\* via Bluetooth®  
**Highly versatile** – use it in to wake up in the morning, too, thanks to clock display, music alarm and snooze function  
**Enjoy music online** – use via apps of popular music streaming services such as Spotify, Napster, AllPlay Radio and more



\*Other ALL Series speakers are optional and not included.

SOUNDBARS & SPEAKERBOARDS



# CINEMA SOUND FOR YOUR HOME

**ALL**  
Connected Audio



## ALL70T

SC-ALL70T ●



### ALLPlay™ Wireless Soundbar System for Many Audio Options

- Impressive sound** – 3.1-channel soundbar system with wireless subwoofer and 350W (RMS) power output
- Full TV action** – send the TV's audio to other ALL Series speakers\* anywhere in your home
- 4K capability** – with 4K signal pass-through via a 4K Blu-ray™ Player to your 4K TV with only one HDMI cable
- Easy connectivity** – simply pair up with your smartphone thanks to NFC and stream music via Bluetooth®
- More powerful sound** – boost your perfect home cinema sound to a 5.1 system, with two ALL2 or ALL6 speakers for the rear

\*Other ALL Series speakers are optional and not included.



GLASS TOP PANEL DESIGN



## HTE200

SC-HTE200 ●



### Get High-Quality 2.1-Channel Sound for Your TV

- Amazing experience** – 2.1-channel surround soundbar system delivering 200 Watts (RMS) of power output
- 4K capability** – with 4K signal pass-through via a 4K Blu-ray™ Player to your 4K TV with only one HDMI cable
- Dynamic, deep bass** – delivered by two subwoofers and two Aero Stream Ports
- Easy wireless set-up** – enjoy your TV's audio or music on your smartphone via Bluetooth® with NFC
- Full convenience** – enjoy easy set-up and home cinema entertainment with VIERA Link



INTRO

TV

VIDEO

AUDIO

ICONS

SPECS



## HTE80

SC-HTE80 ●●



### Compact Speakerboard with Powerful Sound

- Dynamic, deep bass** – delivered by two subwoofers and two Aero Stream Ports
- Flat and compact design** – fits easily under your TV or inside a rack
- Easy wireless set-up** – enjoy your TV's audio or music on your smartphone via Bluetooth® with NFC
- Flexibility** – HDMI and optical input slots let you conveniently hook up other devices
- Full convenience** – enjoy easy set-up and home cinema entertainment with VIERA Link



# HTB885

SC-HTB885 ●



## Discover Dynamic 5.1-Channel Surround Home Cinema

**Ultimate sound experience** – 5.1-channel surround soundbar system with wireless subwoofer and 500W (RMS) power output  
**4K capability** – with 4K signal pass-through via a 4K Blu-ray™ Player to your 4K TV with only one HDMI cable  
**Easy connectivity** – simply pair up with your smartphone thanks to NFC and stream music via Bluetooth®  
**Full convenience** – enjoy easy set-up and home cinema entertainment with VIERA Link



# HTB488

SC-HTB488 ●



## Powerful 2.1-Channel Sound for Your Home Cinema

**Breathtaking experience** – 2.1-channel soundbar system with wireless subwoofer and 200W (RMS) power output  
**Elegant match** – designed to be a perfect fit with Panasonic TVs of 40 inches or larger  
**Easy streaming** – simply pair up with your smartphone and enjoy your favourite music via Bluetooth®  
**Fast connectivity** – hook up any compatible device via the optical digital audio input



# HTB18

SC-HTB18 ●



## High-Quality 2.1-Channel Sound in a Slim Design

**Transform your TV sound** – enjoy impressive 120 Watts (RMS) of power output and deep bass from the wireless subwoofer  
**Stylish design** – subtle Delta Form Design makes for an attractive living room appearance  
**Wireless music streaming** – stream your music in high quality thanks to built-in Bluetooth® capability  
**Convenient connectivity** – connect to other AV devices via 1x optical and 1x AUX input ports



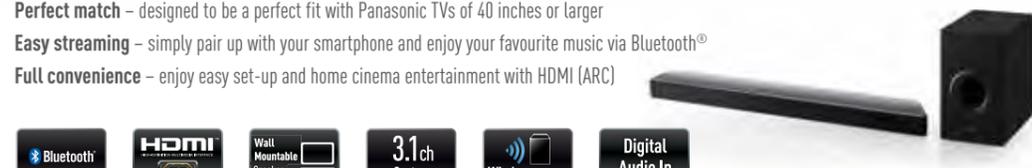
# HTB688

SC-HTB688 ●



## Enjoy Impressive 3.1-Channel Surround and Convenience

**Impressive listening** – 3.1-channel surround soundbar system with wireless subwoofer and 300W (RMS) power output  
**Perfect match** – designed to be a perfect fit with Panasonic TVs of 40 inches or larger  
**Easy streaming** – simply pair up with your smartphone and enjoy your favourite music via Bluetooth®  
**Full convenience** – enjoy easy set-up and home cinema entertainment with HDMI (ARC)



# HTB8

SC-HTB8 ●



## Small in Size with Big 2-Channel Sound

**Compact soundbar** – enjoy stereo sound with 80 Watts (RMS) of output power  
**Fast connectivity** – hook up to any compatible device via the optical digital audio input slot  
**Wireless music streaming** – stream your music in high quality thanks to built-in Bluetooth® capability  
**Perfect size** – fits best under TVs ranging in size from 32" to 42" diagonal





# THE SOUND OF MUSIC

ALL  
Connected Audio



## PMX150

Hi-Fi Music System with Superb Music Quality

SC-PMX150 ●

- High-resolution sound** – Hi-Fi system delivering excellent sound quality, also compatible with ALL Connected Audio compatible speakers
- Powerful audio** – high quality 3-way speaker using a 100kHz super sonic tweeter and boasting 120 W power output
- High-end sound technologies** – implemented virtual battery operation, LincsD-Amp 3rd generation, Variable Gain Digital Amp and Power Conditioner
- Ultimate flexibility** – enjoy popular online streaming services such as Spotify, TuneIn, Napster and more
- Great diversity** – enjoy your CDs, favourite music or DAB+ digital radio\* via Bluetooth®, AirPlay, DLNA, USB or Stereo Cinch

\*Functionality varies from country to country.



## PMX80

SC-PMX80 ● ●



Hi-Fi Music System with High-Res Music Playback

- Hi-Fi system** – delivers impressive sound in high-resolution thanks to new LincsD-Amp technology
- Rich audio** – revel in the music through high-quality 3-way speakers delivering 120 Watts (RMS) of power output
- Easy connectivity** – effortlessly pair the system with your smartphone thanks to NFC and Bluetooth® music streaming
- Great diversity** – enjoy your CDs, favourite music or DAB+ digital radio\* via Bluetooth®, AirPlay, DLNA, USB or Stereo Cinch

\*Functionality varies from country to country.



## PM600

SC-PM600 ● ●



Hi-Fi Music System Delivers Impressive Sound

- Outstanding sound** – enjoy a clear sound experience with 40 Watts (RMS) of output power and 2-way Bass Reflex speakers
- Wireless connectivity** – stream music from any compatible device to the system easily via Bluetooth®
- Flexibility** – play your music stored on a USB storage device easily and effortlessly thanks to the integrated USB port
- Highly diverse** – includes a built-in CD player and radio featuring RDS station/music information



## PM250

SC-PM250 ● ●



Hi-Fi Music System Essential for the Home

- Compact design** – perfect for virtually any room thanks to a built-in CD player, radio and 20 Watts (RMS) of output power
- Many options** – enjoy any number of stations and programmes in clear quality thanks to digital (DAB+)\* and UKW radio
- Wireless connectivity** – stream music from any compatible device to the system easily via Bluetooth®
- Flexibility** – play your music stored on a USB storage device easily and effortlessly thanks to the integrated USB port

\*Functionality varies from country to country.





## RS52

SC-RS52 ● ●



### Compact Music System Delivering Clear Sound and Style

**Timeless design** – add an extra touch of class to your home with this CD system offering 40 Watts (RMS) of power output  
**Fast access** – always have your favourite CDs at hand thanks to the 4GB internal capacity and five pre-set buttons  
**Clear wireless sound** – enjoy your music in clear quality with built-in Bluetooth® Re-Master  
**More listening pleasure** – play your music on a USB device or listen to the radio offering FM/AM and digital DAB+  
**Harmonious, clear listening** – thanks to the LincsD-Amp digital amplifier and Twisted Acoustic Ports



## RS30

SC-RS30 ●



### Compact Music System for Greater Listening Pleasure

**Gorgeous looks** – this 40W (RMS) CD system adds a dash of style to any room you put it in  
**Instant playback** – a series of preset buttons mean your favourite CDs are only a single button-press away  
**Bluetooth® Remaster** – enjoy music streamed from your phones and tablets in beautifully clear quality  
**Support for many sources** – enjoy music from a USB device or FM/AM/digital DAB+ radio station  
**Pure digital sound** – courtesy of a Lincs-Amp digital amplifier and Twisted Acoustic Port



## HC400/402

SC-HC400 ● ●  
 SC-HC402 ● ●



HC402

### Compact Music System with Slim and Stylish Design for Any Room

**Elegant, slim design** – wall-mountable CD system with fabric mesh that blends into any interior  
**Easy connectivity** – simply pair the system with your smartphone thanks to Bluetooth® music streaming  
**More listening pleasure** – play your music from a USB device or listen to FM/AM/digital DAB+\* radio services  
**Clear, dynamic listening** – thanks to the LincsD-Amp digital amplifier and Twisted acoustic port  
 \*SC-HC402 only.



HC400

## HC295/195

SC-HC295 ● ○  
 SC-HC195 ● ○



HC195

### Sleek Style for Your CD, USB or Bluetooth® Music

**Stylish design** – flat, sleek system featuring an integrated CD player and 20 Watts (RMS) of power output  
**Easy connectivity** – simply pair the system with your smartphone thanks to NFC and Bluetooth® music streaming\*  
**Full listening pleasure** – play your music on a USB device, transfer audio via the AUX input or enjoy the radio with RDS\*1  
**Versatile** – also includes a clock with timer feature for keeping track of the time while enjoying the sound  
 \*SC-HC295 only. / \*1SC-HC195 without AUX input.



HC295



## D20

### DAB+ Portable Radio with Bluetooth®

RF-D20 ● ○  
**Modern radio reception** – excellent digital quality with DAB/DAB+  
**Convenient** – personalise your listening with a five channel memory  
**Easy connectivity** – Bluetooth® music streaming from smartphone  
**Splashproof** – perfect for by the pool or on the beach



## D10

### Compact and Stylish DAB/DAB+ Portable Radio

RF-D10 ● ○  
**Modern radio reception** – excellent digital quality with DAB/DAB+  
**Convenient, easy operation** – customise with ten channel memory  
**High-quality sound** – powerful 10cm speaker and 5 equaliser presets  
**Easy viewing** – backlight LCD for lighting conditions





# ACE OF BASS



## UA3/UA4

### Compact Powerful Party Music System

- SC-UA3 ○
- SC-UA4 ○

**Ultra powerful sound** – your beats sound great from large 16cm subwoofers with 300W (RMS) output power  
**One box style** – make the best out of any party thanks to the horizontal style and carry handle design  
**Powerful bass** – get a clear, powerful sound even at a high volume thanks to two low-frequency woofer units  
**Party fun** – versatility of the Local Preset Equaliser and wide-ranging media connectivity that includes CD & USB  
**Transportable** – easy to carry thanks to the handle

\*SC-UA4 only.



## THE WAY TO GROOVE



### EASY OPERATION

Operate your SC-UA7 with the Panasonic MAX Juke App remotely. You can easily handle basic operations and are even able to create a shared playlist with friends.

### ELEGANCE MEETS POWERFUL SOUND

The Urban Audio System SC-UA7 combines an elegant, minimal design with dynamic sound. The one-box speaker layout has been designed carefully to deliver an amazingly dynamic and wide directional 180 degree sound. Additionally, the AIRQUAKE Bass ensures perfect sound for any party.



## UA7

SC-UA7 ●



### Elegant Urban Audio System for Ultimate Party Fun

**Powerful sound** – fill the whole room with powerful sound thanks to the multidirectional positioning of its 4 woofers and 4 tweeters  
**Stylish design** – the hexagonal box design saves space while producing a dynamic and widely dispersed sound  
**Powerful system** – enjoy loud party music from dual 16cm subwoofers with 1700W (RMS) power output and AIRQUAKE Bass  
**Enhance TV sound** – with the newly added Voice Expansive Mode, the sound seems to spread naturally from the TV screen  
**Wide compatibility** – Bluetooth®, FM Radio and 2x USB built-in



## UX100/102

### Compact High-Power Music System

- SC-UX100 ●
- SC-UX102 ●



UX100

**Outstanding sound** – your beats sound great from large 13cm subwoofers with 300W (RMS) output power  
**Wireless connectivity** – enjoy music wirelessly in your room via Bluetooth®  
**Fun atmosphere** – enjoy DJ Effects with easy smartphone control  
**Party time** – request songs from USB using the MAX Jukebox App  
**Powerful and impressive design** – enhanced surface texture with hairline and matte finish create a simple but luxurious design

\*SC-UX102 only.



# PARTY ENTERTAINERS



## MAX4000

MAX System Blasting out 2400W of Power for Any Party

SC-MAX4000 ○



**High-power system** – blasting out your music with 2400W (RMS) power output and two 3-way front speakers  
**Ready for any source** – your music via CD, 2x USB (Rec/Play), 2x audio input, Bluetooth® featuring NFC or radio (FM/AM)  
**Essential internal HDD** – 2GB of built-in memory enables you to store music from CDs, Bluetooth®, USB, radio or AUX-IN  
**Perfect DJ feeling** – use the DJ Jukebox (Crossfade/Mix)\*, DJ Sampler and DJ Effect features for a great club atmosphere  
**Party fun** – with microphone slot for being the life of the party and six-colour party lighting

\*With MAX Juke App for Android OS Version 4.1 or higher.



## CMAX5

Transportable MAX System with Big Sound from a Compact Size

SC-CMAX5 ●



**Powerful system** – compact in size but big on party with 1000W (RMS) output power and full portability  
**Highly flexible** – your music via Bluetooth®, 2x USB (Rec/Play), 2x audio input or 1x audio output  
**Pure entertainment** – have fun with the karaoke function via two microphone inputs (1x for guitar connection)  
**Party atmosphere** – fun is yours with the 25cm subwoofer featuring D.Bass Beat and six-colour party lighting



## AKX660

Music System with Robust AIRQUAKE Bass

SC-AKX660 ●



**Powerful and clear sound** – your beats sound great with 1700W (RMS) power output and 20cm Super Woofer  
**Fast access** – always have your favourite music at hand thanks to 4GB of internal memory  
**Party time** – request songs from your smartphone, internal memory or USB using the MAX Jukebox App  
**Multi Colour Illumination** – enrich your party with 6 multi colour patterns



## AKX220

Compact Music System with Bold Design

SC-AKX220 ●



**Compact, bold system** – play your favourite CDs with 400W (RMS) output power  
**High-quality sound** – from the 2-way speakers with 16cm wave-structure subwoofer  
**Flexible** – your music via Bluetooth®, 2x USB, AUX-IN, with FM/AM radio tuner  
**Customisable** – your individual settings for different genres and and savour the D.Bass Beat





## BTS50

RP-BTS50 ● ○

### Iconic Sports Earphones in Comfortable, Stylish Design

**Perfect for sports** – enjoy a secure, comfortable fit with water-resistant housing  
**Premium sound** – with a 12mm dynamic driver and aptX® compatibility  
**AIR-Light Fit Design** – sleek form with 3D Flex Sport clips and Blue EDGE LEDs



BLUE EDGE LED



## BTS30

RP-BTS30 ● ○ ● ●

### Fashionable and Comfortable Sports Earphones

**Perfect for sports** – enjoy a secure, comfortable fit with water-resistant housing  
**High-quality sound** – with an advanced 9mm driver unit  
**AIR-Light Fit Design** – sleek form with 3D Flex Sport clips



## BTS10

RP-BTS10 ● ○ ● ●

### Sport Bluetooth® Earphones with Secure Fit

**Rich bass** – thanks to an advanced 14.3mm driver unit  
**Perfect for sports** – enjoy a super lightweight, comfortable fit with flexible Ear Clips and quick charge  
**Wireless freedom** – enjoy music anywhere thanks to Bluetooth® functionality and 4 hours 20 minutes of battery



## HS34

RP-HS34 ● ○ ● ●

### Essential Sports Earphones for Sound on the Run

**Portability** – extremely lightweight with sweat/water-resistant design  
**High-quality sound** – Inner Temple Cord ensures clearer music  
**Optimum fit** – adjustable hanger for more comfortable listening

\*Also available: RP-HS34M with mic and switch for call control.



## HD10

RP-HD10 ●

### Premium Headphones Offering Full Listening Pleasure

**High-resolution sound** – handles 4Hz–50kHz frequencies with multi-layer film diaphragm  
**Premium build** – 50mm HD driver unit produces low bass sounds and extraordinarily clear treble  
**Optimum fit** – ergonomic 3D-designed ear pads and horizontal slide adjustment



## HD6M

RP-HD6M ●

### Experience Genuine High-Res Audio for Hours

**Dynamic sound** – hear even finest details with 4Hz to 40Hz frequency range and antivibration frame  
**Advanced built** – 40mm HD driver unit produces low bass sounds and extraordinarily clear trebles  
**Greater comfort** – enjoy extended listening pleasure thanks to horizontal slide adjustment



## HDE10

RP-HDE10 ●

### Earphones for Hi-Fi Lovers with Sound-Enhancing Tech

**Expansive sound** – get subtle details with 4Hz–50kHz frequency range, Dual Axial Drive and 11.5mm driver unit  
**Ingenuous design** – aluminium housing, oxygen-free copper cord and horn-type earpiece for immersive listening  
**Ready for everything** – easy portability with supplied carrying case, with a mic and switch for mobile call control



## HDE5M

RP-HDE5M ●

### Premium High-Res in Full Aluminium Style

**Premium sound** – handles 5Hz to 45kHz frequencies with extra control magnet and multi-layer film diaphragm  
**Elegant design** – full metal finish, compact and stylish design  
**Comfortable and stable fit** – easy portability with supplied carry case, plus mic and switch for mobile call control



## HDE3M

RP-HDE3M ●

### Premium Earphones with High-Res Experience

**Premium sound** – handles frequencies from 5Hz to 40kHz with extra control magnet  
**Ease of use** – attach to any device with the long 1.2m cable and microphone  
**Stylish design** – aluminium compact body parts and stylish design





# TECHNOLOGY COMPARISON

	4K ULTRA HD BLU-RAY™ / BLU-RAY™ DISC PLAYER								BLU-RAY™ DISC RECORDER		
	UB900	UB700	UB400	UB300/310	BDT570	BDT380/81 BDT280/81 BDT180/81	BDT167 BDT168	BD84	BS1950 BS1850/55 BS1750/55 BS1650	BCT950 BCT850/55 BCT750/55 BCT650	BWT850 BWT745 BWT640
<b>HIGH-QUALITY PICTURE &amp; SOUND</b>											
HCX Processor											
4K Upscaling											
4K Networking											
2D / 3D Mode											
High Res Sound											
THX® 4K Source											
<b>EASY OPERATION</b>											
VIERA Link / HDMI CEC											
Remote Recording											
Keyword Recording											
TV Anywhere											
<b>SMART NETWORKING</b>											
Internet Apps											
DLNA™											
USB											
HDMI™											
Wi-Fi											
SD Slot											
Receiver											
Triple HD Tuner											
Twin HD Tuner											
TV > IP											
Common Interface Plus											

\*1 For BCT950, BS1950 / \*2 For BCT850/55, BS1850/55 / \*3 For BCT750/55, BS1750/55 / \*4 Not for BCT650, BS1650 / \*5 For BCT950, BS1950, BCT850/55, BS1850/55 / \*6 For BCT950, BS1950, BCT850/55, BS1850/55, BCT750/55, BS1750/55 / \*7 For BWT850 / \*8 BWT640: Wi-Fi ready

## ALL

Connected Audio

### GENERAL

	HC1020	ALL7CD	ALL5CD	ALL1C	ALL9	ALL6	ALL05	ALL2	ALL70T	PMX150 PMX152
Qualcomm® AllPlay™										
Panasonic Streaming App										
Total Output Power										
Special Features										

### SOUND FEATURES

Digital Amp Solution (3rd generation)										
Bass System										
FLAC										

### SMART NETWORKING

Wi-Fi Certified										
DLNA™										
Bluetooth®										
NFC										
USB										

### STREAMING PARTNERS

Spotify®										
napster®										
Qualcomm® AllPlay™ Radio tunein										
soma fm										
doubleTwist™										

### TUNER

RDS										
DAB Plus										
FM										

\*1 For PMX152 only

# LOGO & ICON GLOSSARY: TV

## TECHNOLOGY

**4K PRO HDR / 4K HDR:** High-end Panasonic 4K PRO TVs are designed from the bottom up and tuned in Hollywood to deliver picture quality accurate to the filmmaker's original intentions. Equipped with both cutting-edge Panasonic 4K Studio Colour HCX<sup>2</sup> Processor with professional-quality colour management technology and the OLED next-generation panel, 4K PRO TVs capture every nuance and detail of the original film.

**Ultra HD:** The Ultra HD (UHD) logo is the official industry logo developed by DIGITAL EUROPE. TVs featuring this official logo must meet UHD requirements, like all 4K UHD Panasonic TVs. They are proven to provide true Ultra HD picture quality and connectivity in line with the high standards.

**Full HD:** Full High Definition (HD) offers an amazing resolution of 1,920 x 1,080 – in contrast, PAL offers 720 x 576 and NTSC 720 x 480. This means you can enjoy Full HD programmes and films with sharp, dynamic images and brilliant colour.

**Master HDR OLED:** Panasonic's OLED panels are dubbed 'Master' panels as they are able to produce deeper silky blacks and we are able to control them with more granularity than ever before. This means that thanks to Panasonic's renowned picture quality craftsmanship, together with input from a Hollywood Colourist, we are able to tune them to the utmost of their potential.

**OLED:** Tuned by professional Hollywood Colourist to achieve picture quality as the director's intention. The OLED panel is a self-illuminating system that doesn't require any additional light source, such as backlight. When electrical current flows to the organic layer light-emitting element, the panel is illuminated.

**LED TV:** Panasonic panel featuring LED backlight technology and a slim chassis with narrow bezel. The panel provides excellent motion picture quality while consuming less energy, complemented by a design that delivers style to any interior.

## PICTURE QUALITY

**Cinema Display:** Our new Cinema Display is designed to ensure that you see exactly what the filmmakers intended. They combine wide cinematic colours, local dimming to deliver inky blacks alongside subtle gradations, and outstanding levels of brightness.

**Picture Tuned in Hollywood:** Panasonic's high-end 4K PRO HDR TVs are designed from the bottom up and tuned in Hollywood to deliver picture quality true to the filmmakers' vision. Equipped with Panasonic's cutting-edge Studio Colour HCX<sup>2</sup> processor with professional 3D look-up table colour management technology and the OLED next-generation panel, 4K PRO HDR TVs capture every nuance and detail of the original film.

**THX 4K Display:** With Panasonic panels featuring THX 4K Display, you can be sure of experiencing the original image quality of a movie just as the filmmakers intended – in spectacular 4K. These Panasonic TVs have cleared the high standards for 4K set by the THX<sup>®</sup> Certified Display Programme.

**4K Game Mode:** The latest gaming consoles now let you game in HDR, adding more contrast and richer colours to create more realistic and immersive gaming worlds. Some TVs, though, take so long to render HDR images that they make competitive gaming impossible. All Panasonic HDR TVs, on the other hand, feature 4K HDR Game Modes specifically designed to play HDR pictures as quickly as possible.

**Local Dimming:** To ensure robust blacks and delicate gradation with any film genre, a range of Panasonic TVs feature Local Dimming. Rich gradation is achieved by matching the backlight control and optimising the brightness level to each area. This enables deeper black expression and displays even tiny details in dark scenes with crisp clarity.

**Adaptive Backlight Dimming:** Thanks to Adaptive Backlight Dimming you can enjoy crisp dark scenes and high-contrast pictures with a constantly optimised backlight.

**Absolute Black:** To deliver true depth and gradation, this self-illuminating method illuminates each pixel individually, enabling the pixels to control their own luminance to reproduce absolute black.

**Super Bright Panel:** Even when the sunlight is fully shining through your living room window, you will enjoy a clear picture on your Panasonic TV screen, featuring Super Bright Panel technology. This high-transmittance panel combines with a high-efficiency LED backlight to produce sharp, crisp images and HDR.

**Bright Panel:** Everything from colour vibrancy and naturalism to sharpness and clarity benefits from extra brightness. So Bright Panel technology injects more brightness into pictures by putting high-efficiency LED lights behind an exceptionally transmissive LCD panel.

**Studio Colour HCX<sup>2</sup>:** The new Studio Colour HCX<sup>2</sup> 4K processor represents the pinnacle of Panasonic image processing. Built on colour, black level and brightness know-how learned from our reference-quality plasma TVs and professional broadcast equipment, the system has also been tuned by a Hollywood colourist to deliver picture quality true to the filmmakers' vision.

**Multi HDR Support:** Panasonic TVs support now 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.

**Up to 2400Hz BMR\*\* 4K IFC:** Enjoy extremely smooth fast-motion 4K images thanks to the high-speed panel and Intelligent Frame Creation paired with advanced backlight scanning technology.

**Up to 600Hz BMR:** With a Panasonic TV featuring up to 600Hz (BMR), you are assured of smooth, jitter-free reproduction of fast motion images. This drive technology combines advanced backlight technology with enhanced, high-speed drive performance to provide outstanding sports or action movies.

**3D:** If you want to enjoy hassle-free 3D films at home, then Panasonic has the ideal solution for you. Opt for a high-grade LED TV featuring 3D rendering, and you'll get brilliant 3D entertainment with HD image quality.

**Advanced Colour Processing:** Advanced Colour Processing leverages Panasonic picture quality know-how in delivering faithful on-screen images. Specifically it delivers accurate colours and works to produce deeper blacks which retain detail even in dark scenes.

**Wide Colour Spectrum:** By using special Wide Colour Phosphor Technology or OLED panel capable of producing a wider colour range, the spectrum of colour covers more than 90% of DCI standards. Wide Colour Spectrum TVs / Studio Master Colour TVs give you a more subtle, naturally toned colour palette which, unlike most LCD TVs, still looks authentic in any scene.

**4K Pure Direct / Pure Direct:** During signal transmission to the TV via HDMI, colour information is slightly compromised, resulting in less-than-ideal colour shading and gradation. With Pure Direct, all colour information and full resolution is transmitted to the TV so that the picture retains its crisp, rich colours as intended.

\*\*HCX stands for Hollywood Cinema Experience / \*\*BMR: Backlight Motion Rate

**Ultimate Contrast:** TVs featuring Ultimate Contrast deliver bright images and impressive black levels. To achieve this, it combines innovative direct LED backlight technology with Local Dimming or a cutting-edge OLED panel and intelligent rendering drivers.

**Supreme Contrast:** High-end Panasonic TVs feature Supreme Contrast, which delivers spectacular levels of deep black with bright, crisp images. It does this by combining cutting-edge Panasonic panel technology with innovative LED backlight featuring Local Dimming.

**Brilliant Contrast:** To give you great contrast with bright images, deep black levels and low power consumption, many Panasonic TVs feature Brilliant Contrast. It combines innovative panel and LED backlight technologies for an immersive home cinema viewing experience.

**High Contrast:** Panasonic TVs with High Contrast deliver a genuine home cinema atmosphere. Deep blacks and bright whites make for more dynamic images, with great colour and crisp picture quality.

## SMART NETWORKING

**Media Player 2.0:** The renowned Media Player is now available with Panasonic TVs. It lets you easily enjoy your personal multimedia entertainment stored on any USB memory device. The Easy List View and Mix Folder functions make the new 2.0 version even more user friendly. In addition, HDR content is recognized automatically so you don't need to make any changes in the menu.

**Web Browser:** The Web Browser lets you easily browse the Internet on the TV and enjoy user-friendly features. On Panasonic 4K TVs, you can also enjoy online content in Ultra HD 4K resolution, perfect for viewing maps on screen.

**Easy Mirroring:** Transfer photos, videos and more from your smartphone, tablet or computer display straight to the large Panasonic TV screen. Built-in Wi-Fi capability lets you easily and quickly connect your Android-based\*\* mobile devices to the TV.

**USB HDD Recording:** Thanks to this function, available with many new cutting-edge Panasonic TVs, you can hook up an external USB hard disk to record TV shows or films in excellent quality. It also supports Timer Recording, Direct TV Recording and Pause Live TV.

**Quattro Tuner:** Four Different Types of TV Reception - All in One. Enjoy satellite, cable and TV-IP content in addition to digital terrestrial broadcasting thanks to innovative built-in tuners.

**In-house TV Streaming Server & Client\*:** You now have the freedom to position your TV anywhere in your home. Simply wirelessly stream broadcasts from a main TV, which acts as a server, to any other TVs, tablets or smartphones in any room (via your home network).

**Internet Apps:** Cloud-based, the new Internet Apps functionality gives you instant and easy access to the Internet, as well as a wide range of apps, Video on Demand services, games and more.

**Wireless LAN built-in:** Many Panasonic TVs can be wirelessly connected to your home network. So you can take advantage of Internet Apps and DLNA networking throughout your home.

**DLNA:** Access videos, pictures and music stored in other rooms and enjoy content throughout the home by connecting compatible devices via DLNA. The Panasonic TV Remote 2 app lets you transfer content from your iPhone / Android\*\* tablet or smartphone to your TV, or access your DLNA server from mobile devices.

**IP Home Networking:** Panasonic TVs with this feature can be controlled by the Home Automation System via your IP home network, allowing you to control the TV via the Home Automation System for easy operation.

## EASY OPERATION

**Swipe & Share:** Unleash the full potential of your smartphone with the Panasonic TV Remote 2 app and Swipe & Share functions. Share and stream personal content like pictures, movies and music to your Panasonic TV simply from Android\*\* or Apple-based smartphones.

**Quad-Core PRO:** This ultra-powerful processor lets you enjoy smart features at high-speed with smooth interaction. Quad-Core PRO is extra efficient, as the picture is processed separately from the features. So you can easily switch between multiple apps and Web pages seamlessly without any lag time.

**Dual-Core x4:** The Dual-Core x4 central processing unit (CPU) ensures the Panasonic TV panel reproduces great picture quality and is equipped to handle smart features, with seamless functionality. It consists of two cores with four processing units each, ensuring high-speed, accuracy and precision.

**Vreal Smart PRO:** A dedicated multimedia engine, advanced Vreal Smart PRO ensures fast processing of all your digital networking as well as high picture quality. It is the powerhouse for a full entertainment experience, providing added smart features for more versatile viewing.

**TV Anywhere\*:** Enjoy your favourite multimedia content wherever you are. The Panasonic TV streams live broadcasts or recorded content stored on a USB HDD to your mobile device. (Panasonic Media Center App – free download available for iOS and Android\*\* devices.)

**my Home Screen 2.0:** With the Panasonic my Home Screen feature, you can customise the start-up screen of your Panasonic TV to suit your personal style and needs. Quickly access your favourite apps and functionalities – my Home Screen gives you an easy overview at a glance.

**Panasonic TV Remote 2 app:** With this app, it is easy and fun to share – simply swap multimedia or websites from your smartphone's display to the TV screen and vice versa. This newly enhanced Panasonic app goes a step further, letting you swipe and store your media from your smartphone to the TV.

**Touch Pad Remote:** Several new Panasonic TVs come with a smart Touch Pad Remote. Intuitively shaped with a spacious touch pad, it lets you pin your favourite apps and channels to your my Home Screen 2.0 with a touch of the 'my' button.

**Voice Assistant:** With Voice Assistant, voice operation is virtually just like talking. It enables you to easily speak out keyword searches and even control the TV too.

**Voice Guidance:** Panasonic TVs with Voice Guidance will verbally inform you of programme information, recording and other settings, and more with clear pronunciation and tone. It provides easy-to-understand operating procedures for people with impaired vision or for elderly people.

\*Not in the UK / \*\*Ver. 4.2 and above and Miracast™ certified

# LOGO & ICON GLOSSARY: VIDEO / AUDIO

## TECHNOLOGY

**ULTRAHD PREMIUM** **Ultra HD Premium:** Is a certification program based on the stringent technical specifications standardized by the Ultra HD Alliance.

**4K Networking** **4K Networking:** Photographs or videos recorded in 4K resolution can be played through to your 4K television by devices with this logo.

**Blu-ray 3D** **Blu-ray 3D™:** Enjoy your favourite blockbusters in stunning 3D at home. Full HD 3D Blu-ray Disc™ Playback brilliantly reproduces images that leap off the screen, with enhanced depth, lustre and texture.

**Qualcomm AllPlay** **Qualcomm® AllPlay™:** A smart media platform that enables seamless streaming of high-quality local and Cloud-based content – via high-performance Wi-Fi connectivity – across multiple product brands and platforms.

**4K High Precision Chroma Processor** **High Precision Chroma Processor:** The 4K High Precision Chroma Processor expands the usual colour reproduction capabilities of Ultra HD Blu-ray™ to deliver much more nuanced and natural pictures.

**4K Direct Chroma Upscaling** **Direct Chroma Upscaling:** By upconverting Full HD chrominance and luminance signals directly into 4K signals, this technology achieves higher-precision image processing.

**4K Ultra HD Upscaling** **4K Ultra HD Upscaling:** This digital video format boosts conventional Full HD media to the next generation of TV resolution, which is four times higher than Full HD – delivering breathtaking image and sound quality.

**ULTRAHD Blu-ray** **ULTRA HD Blu-ray™:** New standard that raises the maximum values for the three picture quality components resolution, luminance and colour reproduction.

## SMART NETWORKING

**DAB+** **DAB+:** DAB Plus is latest standard for digital radio broadcasting available in several countries in Europe. Products with this feature offer an outstanding quality for listening to your favourite radio station among a wide choice of channels.

**Wi-Fi Built-in** **Wi-Fi Built-in:** Many Panasonic video products can be wirelessly connected to your home network. So you can take advantage of Internet Apps and DLNA network working throughout your home.

**Web Browser** **Web Browser:** As the name implies, the Web Browser lets you easily browse the Internet on the TV and enjoy user-friendly features. And with Web Browser 4K, you can enjoy online content in high 4K resolution, perfect for viewing maps on screen.

**Panasonic Music Streaming App** **Panasonic Music Streaming App:** Available for all models that feature Bluetooth®, AirPlay or DLNA, this app controls wireless music streaming from any device, be it smartphone, tablet or PC, and recognises compatible wireless speakers.

**AirPlay** **AirPlay®:** Developed by Apple especially for Apple devices, AirPlay technology lets you stream your favourite music wirelessly from your iPhone, iPad and iPod Touch directly to AirPlay-enabled devices in the same Wi-Fi network.

**Digital Audio In** **Digital Audio In:** The Digital Audio In offers the possibility to connect other sources with digital connection, such as Blu-ray players, TVs, game consoles, etc.

**TV>IP** **TV>IP:** This new technology using SAT>IP can flexibly distribute High and Standard Definition TV programmes throughout your home. SAT>IP allows satellite TV distribution by using your existing data network and enables the displaying and viewing of the signals on any multimedia IP device equipped with suitable software.

**NFC** **NFC™ (Near Field Communication):** Enables easy pairing of the NFC-capable speaker and smartphone via Bluetooth® – at a single touch of the smart device – making troublesome settings a thing of the past.

**HDMI x2** **Twin HDMI:** With Twin HDMI™, one signal output is exclusively dedicated to audio so that your home cinema media sounds incredible.

**Wi-Fi Certified** **Wi-Fi Certified:** Panasonic products that are Wi-Fi Certified have been specially certified by the Wi-Fi Alliance for their ability to wirelessly connect to your home network.

**Internet Apps** **Internet Apps:** Cloud-based, the new Internet Apps functionality gives you instant and easy access to the Internet as well as a wide range of apps, Video on Demand services, games and more.

**Bluetooth** **Bluetooth®:** Bluetooth® is a wireless technology standard for exchanging data over short distances from fixed and mobile devices. This means you can connect any Panasonic Bluetooth®-enabled product with other Bluetooth®-enabled devices without the cable clutter – and in high-quality.

**DLNA** **DLNA:** Access videos, pictures and music stored in other rooms and enjoy content throughout the home by connecting compatible devices via DLNA™. The Panasonic TV Remote 2 app lets you transfer content from your iPhone / Android™ tablet or smartphone to your TV, or access your DLNA server from mobile devices.

**2x CI+** **2x CI+:** Common Interface Plus (CI+) is a technical specification that adds additional security and features to the proven DVB Common Interface (CI) Standard, which gives CI+ compatible consumer electronic devices access to Pay TV Services via plug-in CI+ modules. Products with this feature offer two slots.

## HIGH-QUALITY SOUND

**FLAC** **FLAC:** FLAC stands for Free Lossless Audio Codec and is a High Definition audio compression technology without any loss in quality. Panasonic products with FLAC compatibility enable you to listen to compressed music files without compromising on high audio quality.

**3.1ch System** **3.1ch System:** In addition to the usual right and left front channels and the subwoofer channel, the systems with 3.1 additionally incorporate a center speaker for even better clarity for voices in the movies.

**THX Certified** **THX Certified:** The THX®-certified Panasonic Blu-ray Disc™ Player reproduces pictures and sounds with the same detail and clarity as found in the filmmaker's studio.

**THX 4K Source** **THX 4K Source:** The DMP-UB900 has passed all of THX's stringent laboratory tests – including new picture and sound requirements introduced specifically for 4K players.

**XBS Master** **XBS Master:** Short for Extra Bass System, XBS Master is a unique Panasonic, high-quality sound technology for even more powerful bass sound without distortion.

**Lincs D-Amp** **LincsD-Amp (3rd generation):** Based on MASH noise-shaping technology, LincsD-Amp™ markedly reduces jitter and sound distortion that can affect audio clarity – producing pure, brilliant sound.

**High Res Sound** **High Res Sound™:** A clear listening experience is yours with High Res Sound, available for Panasonic audio products which support a playback frequency range of at least 48kHz.

## EASY OPERATION

**VIERA Link** **VIERA Link:** This feature allows the control of other Panasonic home AV devices via the television remote control. By pressing the VIERA Link button on the television remote, it is possible to turn on and navigate the menus of other VIERA Link equipment. IT requires an HDMI connection between the television and the external source.

**Remote Recording** **Remote Recording:** Functionality to set up recordings using your smartphone, tablet or PC. Just browse channel listings and select shows to record on your second screen without interrupting your main TV viewing.

**TV Anywhere** **TV Anywhere:** This functionality sends recordings and live TV broadcasts over the Internet to smartphones or tablets outside the home.

## SPECIAL FEATURES: URBAN AUDIO / HIGH POWER AUDIO SYSTEMS

**DJ JukeBox** **DJ JukeBox:** Interactive feature to record your music to the internal memory via Bluetooth® for personal use and also to select songs from the the internal memory or USB.

**AIRUAKE BASS** **AIRUAKE BASS:** Unique port and bass amplification technology that pushes sounds forward without losing the resonance of sounds generated from behind the woofer unit. This further amplifies the bass to produce extremely powerful sound.

**DJ Sampler** **DJ Sampler:** Feature that lets you add up different types of sample sounds to match the mood and music of each song.

**D.BASS BEAT** **D.Bass Beat:** Amplification of the beat for more powerful enjoyment, giving you rhythmical music at its best.

## SPECIAL FEATURES: HEADPHONES

**IPX4** **IPX4:** Protects from splashing water regardless the direction. Keeps rain and sweat out to keep the music loud and clear.

**IPX5** **IPX5:** Protects from water jets no matter the direction. Easy to clean, just hold it under running water to remove dirt and sweat.

TV Range	EZ1000 Series	EZ950 Series	EX780 Series	EX700 Series	EX600 Series	ES500 Series	ES400 Series
Available screen sizes	65"	65" / 55"	75" / 65" / 58" / 50"	65" / 58" / 50" / 40"	65" / 55" / 49" / 40"	49" / 40" / 32" / 24"	49" / 40" / 32"
<b>PICTURE QUALITY</b>							
Panel	4K ULTRA HD / Master OLED HDR with Absolute Black Filter	4K ULTRA HD / OLED	4K ULTRA HD / Cinema Display	4K ULTRA HD	4K ULTRA HD	LED LCD	LED LCD
Bright Panel	Ultra Bright Panel	Ultra Bright Panel	Super Bright Panel	Bright Panel	Bright Panel	Bright Panel (not for 24")	Bright Panel
Screen Resolution (W x H)	3,840 x 2,160	3,840 x 2,160	3,840 x 2,160	3,840 x 2,160	3,840 x 2,160	49" / 40": 1,920 x 1,080 32" / 24": 1,366 x 768	49" / 40": 1,920 x 1,080 32": 1,366 x 768
Panel Drive	OLED Superb Motion Drive	OLED Superb Motion Drive	4K 2400Hz BMR IFC	4K 1600Hz BMR IFC	4K 1300Hz BMR IFC	600Hz BMR	400Hz BMR
Picture Mode	Dynamic / Normal / Cinema / True Cinema / THX 4K (Cinema / Bright Room) / Custom / Professional Photo / Professional1 / Professional2 (isfccc)	Dynamic / Normal / Cinema / True Cinema / THX 4K (Cinema / Bright Room) / Custom / Professional1 / Professional2 (isfccc)	Dynamic / Normal / Cinema / True Cinema / Custom	Dynamic / Normal / Cinema / True Cinema / Custom	Dynamic / Normal / Cinema / True Cinema / Custom	Dynamic / Normal / Cinema / True Cinema / Custom	Dynamic / Normal / Cinema / True Cinema / Custom
Multi HDR Support	• (HDR10 / HLG)	• (HDR10 / HLG)	• (HDR10 / HLG)	• (HDR10 / HLG)	• (HDR10 / HLG)	—	—
HDR Brightness Enhancer	•	•	•	•	•	—	—
Contrast	Ultimate Contrast	Ultimate Contrast	Supreme Contrast	Brilliant Contrast	High Contrast	High Contrast	High Contrast
Colour Space	Wide Colour Spectrum	Wide Colour Spectrum	Wide Colour Spectrum	Wide Colour Spectrum	—	—	—
Studio Colour HCX Processor	•	•	•	•	•	•	•
Local Dimming / Adaptive Backlight Dimming	— / —	— / —	• / —	• / —	— / •	— / •	— / •
THX Certified Display*	•	•	—	—	—	—	—
4K Pure Direct	•	•	•	•	•	•	•
4K HDR Game Mode	•	•	•	•	•	•	•
ist Mode	•	•	•	•	•	•	•
3D LUT Setting	•	—	—	—	—	—	—
3D	—	—	• (Active)	—	—	—	—
<b>SOUND QUALITY</b>							
Surround	VR-Audio True Surround+	VR-Audio True Surround+	VR-Audio True Surround	VR-Audio True Surround	VR-Audio True Surround	VR-Audio True Surround	VR-Audio True Surround
Speakers	Dynamic Blade Speaker: Tweeter x2, Squaker x4, Woofer x8, Quad Passive Radiator	Squaker x2, Woofer x2, Quad Passive Radiator	Full Range x2	Full Range x2	Full Range x2	Full Range x2	Full Range x2
Speaker Output	80W (20W x2 + 20W x2)	40W (10W x2 + 10W x2)	20W (10W x2)	20W (10W x2)	20W (10W x2)	49" / 40" / 32": 20W (10W x2), 24": 6W (3W x2)	20W (10W x2)
Sound Mode	Standard / Music / Ambience / User	Standard / Music / Ambience / User	Standard / Music / Ambience / User	Standard / Music / Ambience / User	Standard / Music / Ambience / User	Standard / Music / Ambience / User	Standard / Music / Ambience / User
<b>SMART FEATURES</b>							
my Home Screen / Info Frame	• (2.0) / •	• (2.0) / •	• (2.0) / •	• (2.0) / •	• (2.0) / •	• / —	• / —
Voice Assistant / Voice Guidance	• / •	• / •	• / •	• / •	• / •	— / •	— / —
EPG	•	•	•	•	•	•	•
On Screen Display Menu Languages	27 Languages**	27 Languages**	27 Languages**	27 Languages**	27 Languages**	27 Languages**	27 Languages**
Twin HD Tuner / HD Triple Tuner	• / •	• / •	• / •	— / —	— / —	— / —	— / —
Unique Processing Engine	Quad-Core Pro	Quad-Core Pro	Quad-Core Pro	Quad-Core Pro	Quad-Core Pro	—	—
Wireless LAN Built-in	•	•	•	•	•	•	•
Panasonic Media Center (App)	•	•	•	•	•	•	•
TV Anywhere*	•	•	•	•	•	•	•
In-House TV Streaming	• (Server / Client)	• (Server / Client)	• (Server / Client)	• (Client)	• (Client)	• (Client)	• (Client)
Panasonic TV Remote Apps	•	•	•	•	•	•	•
Swipe & Share	•	•	•	•	•	•	•
Smart Calibration	•	•	—	—	—	—	—
Internet Apps	•	•	•	•	•	•	•
Web Browser*	•	•	•	•	•	•	•
Easy Mirroring	•	•	•	•	•	•	•
DLNA**	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)	• (DTPC-IP / DMP / DMR / DMS)
Bluetooth**	• (Keyboard / Mouse)	• (Keyboard / Mouse)	• (Keyboard / Mouse)	—	—	—	—
IP Home Control (Crestron / Control4)	•	•	•	•	•	•	•
Media Player	• (2.0)**	• (2.0)**	• (2.0)**	• (2.0)**	• (2.0)**	•	•
Support Format	AVCHD / Progressive, AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG	AVCHD / Progressive, AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG	AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS/PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG / MPO	AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG	AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG	AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG	AVI / HEVC / MKV / WMV / MP4 / M4v / FLV / 3GPP / VRO / VOB / TS / PS, MP3 / AAC / WMA Pro / FLAC / Apple Lossless / WAV, JPEG
HbbTV	•	•	•	•	•	•	•
Teletext Reception	2000P	2000P	1500P	1000P	1000P	1000P	1000P
USB-HDD Recording (w/ Rewind Live TV)	•	•	•	•	•	•	•
Multi Window	2T PAP / PIP / PAT	2T PAP / PIP / PAT	2T PAP / PIP / PAT	PAT	PAT	PAT	PAT
Hotel Mode / Game Mode	• / •	• / •	• / •	• / •	• / •	• / —	• / —
HDAVI Control	•	•	•	•	•	•	•
<b>ENERGY DATA</b>							
Suppliers Trademark	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
Model ID	TX-65E21000E	TX-65E2950E, TX-55E2950E	TX-75EX780E, TX-65EX780E, TX-58EX780E, TX-50EX780E	TX-65EX700E, TX-58EX700E, TX-50EX700E, TX-40EX700E	TX-65EX600E, TX-55EX600E, TX-49EX600E, TX-40EX600E	TX-49ES500E, TX-40ES500E, TX32ES500E, TX-24ES500E	TX-49ES400E, TX-40ES400E, TX32ES400E
Energy Efficiency Class	B (tentative)	B (tentative)	75": A+ (tentative), 58" / 50": A (tentative)	65": A+ (tentative), 58" / 50" / 40": A (tentative)	A (tentative)	A (tentative)	A (tentative)
Visible Screen Size (diagonal)	TBD	TBD	TBD	TBD	65": 164cm / 55": 139cm / 49": 123cm / 40": 100cm	TBD	TBD
On mode Average Power Consumption**	TBD	TBD	TBD	TBD	65": 130W / 55": 107W / 49": 85W / 40": 63W	TBD	TBD
Annual Energy Consumption**	TBD	TBD	TBD	TBD	65": 181kWh / 55": 149kWh / 49": 118kWh / 40": 88kWh	TBD	TBD
Power Consumption (Standby / Off mode)	TBD / TBD	TBD / TBD	TBD / TBD	TBD / TBD	0.50W / 0.30W	TBD / TBD	TBD / TBD
Power Supply	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz
Rated Power Consumption	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Ambient Sensor (CATS)	•	•	•	•	•	•	•
<b>DESIGN</b>							
Design Concept	Art & Interior	Art & Interior	75": Art & Interior, 65" / 58" / 50": Art & Interior Switch Design	Art & Interior Switch Design	Art & Interior Switch Design	—	—
<b>TERMINAL</b>							
Digital Tuner Reception	DVB-T / T2 / DVB-S2 / DVB-C	DVB-T / T2 / DVB-S2 / DVB-C	DVB-T / T2 / DVB-S2 / DVB-C	DVB-T / T2 / DVB-C	DVB-T / T2 / DVB-C	DVB-T / T2 / DVB-C	DVB-T / T2 / DVB-C
Analogue Tuner	•	•	•	•	•	•	Y
HDMI**	2 (side), 2 (rear)	2 (side), 2 (rear)	3 (side), 1 (rear)	3 (side)	1 (side), 2 (bottom)	2 (rear)	2 (rear)
HDMI (4K 60/50p with HDCP2.2)	4	4	4	3	—	—	—
Support Feature	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)	Audio Return Channel (Input 2)
USB	3 (1 side, 2 rear; USB 3.0 x1, USB 2.0 x2)	3 (1 side, 2 rear; USB 3.0 x1, USB 2.0 x2)	3 (1 side, 2 rear; USB 3.0 x1, USB 2.0 x2)	3 (1 side, 2 rear; USB 3.0 x1, USB 2.0 x2)	2 (2 side; USB 3.0 x1, USB 2.0 x1)	2 (2 side; USB 2.0 x2)	2 (2 side; USB 2.0 x2)
LAN Port	1	1	1	1	1	1	1
CI (Common Interface)	2 (CI Plus, Version 1.3)	2 (CI Plus, Version 1.3)	2 (CI Plus, Version 1.3)	1 (CI Plus, Version 1.3)	1 (CI Plus, Version 1.3)	1 (CI Plus, Version 1.3)	1 (CI Plus, Version 1.3)
SD Card	•	•	—	—	—	—	—
Component Video Input shared with Composite	RCA phono type x1 (side)	RCA phono type x1 (side)	RCA phono type x1 (rear)	RCA phono type x1 (rear)	RCA phono type x1 (rear)	RCA phono type x1 (rear)	RCA phono type x1 (rear)
Digital Audio Output (Optical)	1 (rear)	1 (rear)	1 (rear)	1 (rear)	1 (bottom)	1 (rear)	1 (rear)
Headphone Output	1 (side)	1 (side)	1 (side)	1 (side)	1 (side)	1 (side)	1 (side)
<b>GENERAL</b>							
Included Accessory**	Touch Pad Remote / TV Remote	Touch Pad Remote / TV Remote	TV Remote	TV Remote	TV Remote	TV Remote	TV Remote
Dimensions (W x H x D) (w/o stand)	65": 1452 x 837 x 42mm	65": 1453 x 839 x 48mm, 55": 1230 x 716 x 48mm	75": 1680 x 966 x 70mm, 65": 1457 x 841 x 52mm, 58": 1290 x 753 x 41mm, 50": 1115 x 647 x 40mm	65": 1457 x 841 x 52mm, 58": 1290 x 753 x 41mm, 50": 1115 x 647 x 40mm	65": 1460 x 864 x 78mm, 55": 1240 x 722 x 78mm, 49": 1102 x 644 x 77mm, 40": 895 x 518 x 65mm	49": 1106 x 644 x 82mm, 40": 902 x 521 x 90mm, 32": 733 x 437 x 71mm	49": 1106 x 644 x 80mm, 40": 902 x 521 x 88mm, 32": 733 x 437 x 69mm
Dimensions (W x H x D) (with stand)**	65": 1452 x 918 x 330mm	65": 1453 x 889 x 275mm, 55": 1230 x 766 x 275mm	75": 1680 x 1046 x 413mm, 65": 1457 x 921 x 446mm, 58": 1290 x 1183 x 446mm, 50": 1115 x 997 x 348mm	65": 1457 x 896 x 448mm, 58": 1290 x 808 x 352mm, 50": 1115 x 702 x 315mm, 40": 895 x 569 x 315mm	65": 1460 x 899 x 449mm, 55": 1240 x 777 x 351mm, 49": 1102 x 699 x 351mm, 40": 899 x 573 x 351mm	49": 1106 x 689 x 202mm, 40": 902 x 561 x 202mm, 32": 733 x 474 x 148mm, 24": 562 x 409 x 180mm	49": 1106 x 697 x 239mm, 40": 902 x 569 x 239mm, 32": 733 x 481 x 198mm
Weight (w/o stand)	65": 20.5kg	65": 65" TBD	75": 54.0kg, 65": 39.0kg, 58": 24.0kg, 50": 16.0kg	65": 39.0kg, 58": 23.0kg, 50": 16.0kg, 40": 11.0kg	65": 25.0kg, 55": 17.0kg, 49": 14.0kg, 40": 11.0kg	49": 13.0kg, 40": 8.0kg, 32": 6.0kg, 24": 4.0kg	49" / 40" / 32" TBD
Weight (with stand)	65": 27.0kg	65": 65" TBD	75": 62.5kg, 65": 43.5kg, 58": 30.5kg, 50": 22.5kg	65": 40.0kg, 58": 24.5kg, 50": 17.0kg, 40": 12.5kg	65": 26.5kg, 55": 18.0kg, 49": 15.0kg, 40": 12.0kg	49": 14.5kg, 40": 9.5kg, 32": 6.5kg, 24": 5.0kg	49" / 40" / 32" TBD
VESA Compatible	•	•	•	•	•	•	•
VESA Dimension	400 x 300mm	65": 400 x 400mm / 55": 400 x 300mm	75": 600 x 300mm, 65" / 58" / 50": 400 x 200mm	65" / 58" / 50": 400 x 200mm, 49": 200 x 200mm	65" / 55": 400 x 400mm, 49": 400 x 200mm, 40": 200 x 200mm	49": 400 x 200mm, 40" / 32": 200 x 200mm, 24": 100 x 100mm	49": 400 x 200mm, 40" / 32": 200 x 200mm

\* THX and the THX logo are trademarks of THX Ltd, which are registered in some jurisdictions. The THX 3D logo is a trademark of THX Ltd. All rights reserved. / \*\* Due to network conditions or certain broadcaster restrictions, this function may not be available. / \*\* The Web Browser cannot display some web pages correctly. And viewable contents by VIERA Web Browser are subject to the following conditions: viewable contents may vary depend on models, viewable contents may differ from those for PC, viewable contents may be limited. / \*\* DLNA, the DLNA Logo and DLNA CERTIFIED are trademarks, service marks, or certification marks of the Digital Living Network Alliance. \*\* HID (Human Interface Device Profile) compliant keyboards are available. The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. / \*\* To playback HDR, a HDR source is

required (H.264 or H.265/ST2084 or HLG format). / \*\* Based on IEC 62087 Ed.2 measurement method. / \*\* Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used. / \*\* The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries. / \*\* Not all the accessories are listed here. / \*\* Dimension with recommended pedestal style. / \*\* 27 Languages (English, German, Italian, Spanish, French, Danish, Finnish, Swedish, Dutch, Hungarian, Czech, Romanian, Bulgarian, Polish, Norwegian, Estonian, Latvian, Lithuanian, Portuguese, Turkish, Greek, Croatian, Slovak, Slovenian, Serbian, Russian and Macedonian)

Specifications are subject to change without notice. All figures given here are approximate.



WIRELESS MULTI-ROOM SYSTEMS

ALL Series			ALL7CD	ALL5CD
			Wireless Hi-Fi System	Wireless Hi-Fi System
<b>AUDIO SYSTEM</b>	Output Channel		2ch	2ch
	Power Output (RMS)	Total Power	40W	40W
<b>PLAYABLE DISCS</b> <sup>1)</sup>	CD, CD-R / -RW	CD-DA / MP3	• / •	• / •
<b>USB</b>	Slot		• USB 2.0 Full Speed	• USB 2.0 Full Speed
	Playback		MP3, AIFC, AAC, FLAC*, WAV* (*Up to 192k/24bit)	MP3
	Battery Charge		•	• (1.5A only)
<b>INTERNAL MEMORY</b>	Capacity		4 GB	—
	Recordable & Playable Type		WAV, MP3 (320kbps)	—
	Rec. from CD / Bluetooth® / USB / Radio / AUX-IN / Music Port		• (CD)	—
	One Touch Mix Play		•	—
<b>TUNER</b>	Band (Station Presets)		FM (30), DAB Plus (20)	FM (30), DAB Plus (20)
	RDS		• (EG) models only	• (EG) models only
<b>SMART NETWORKING &amp; EASY OPERATION</b>	Multi-room Audio with Qualcomm® AllPlay™		•	•
	Wireless LAN System		•	•
	Party Mode <sup>1)</sup> / Multi-zone <sup>2)</sup>		• / •	• / •
	Wi-Fi Frequency Range		• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)
	Ethernet (10 Base-T / 100 Base-TX)		•	•
	WPS Support		•	•
	Bluetooth® Wireless Technology		•	•
	Panasonic Music Streaming App <sup>3)</sup> / NFC (One-Touch Connection) <sup>4)</sup>		• / —	• / •
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX) <sup>5)</sup>		• / • / • / • / —	• / • / • / • / •
<b>HIGH-QUALITY SOUND</b>	Bamboo Cone Speaker		• (Nano-sized Bamboo Cone Speaker)	—
	LincsD-Amp		• 3rd generation	• 3rd generation
	XBS Master		•	•
	Audio D/A Converter		—	—
	Bluetooth® Re-master		•	•
<b>DESIGN</b>	Wall-mountable / Portable		— / —	• / —
	Preset Button (Internet Radio / FM / DAB / Memory)		5 buttons (• / • / • / •)	6 buttons (Via app control only)
<b>SPEAKER</b>	Front Speaker	Configuration	2-way 2-speakers system, Twisted Acoustic Port	2-way 2-speakers system (Dual Passive Radiator)
		Speaker Unit	Woofer: 6.5cm Full Range x2, Tweeter: 4cm x2, Twisted Acoustic Port: 31.5cm x2	6.5cm Full Range x2
<b>TERMINALS</b>	Analogue Audio Input (AUX)	3.5mm Jack	•	•
	Analogue Audio Output		—	—
	Digital Audio Output		Phones (3.5mm)	—
	LAN Terminal	10 Base-T / 100 Base-TX	•	•
<b>OTHERS</b>	Power Supply		AC 220–240V, 50Hz	AC 220–240 / 250V, 50Hz
	Power Consumption	Normal Use / Standby	26W / 0.3W <sup>6)</sup>	25W / 0.3W <sup>6)</sup>
	Music Alarm / Clock Display / Remote Control		•	•
	Main Unit	Dimensions (W x H x D), Weight	450 x 107 x 250mm, 3.4kg (incl. DAB jack, rubber leg)	533 x 203 x 97.5mm, 2.7kg

Specifications are subject to change without notice. All figures given here are approximate.

WIRELESS MULTI-ROOM SYSTEMS

ALL Series			ALL9	ALL6	ALL05	ALL2	ALL1C
			Wireless Speaker	Wireless Speaker	Wireless Speaker	Wireless Speaker	Wireless Connector
<b>AUDIO SYSTEM</b>	Output Channel		2.1ch	2ch	2ch	1ch	—
	Power Output (RMS)	Total Power	80W	40W	20W (AC adaptor), 8W (Battery)	40W	—
<b>PLAYABLE DISCS</b>	CD, CD-R / -RW	MP3	—	—	—	•	•
<b>SMART NETWORKING &amp; EASY OPERATION</b>	Multi-room Audio with Qualcomm® AllPlay™		•	•	•	•	•
	Wireless LAN System		•	•	•	•	•
	Party Mode <sup>1)</sup> / Multi-zone <sup>2)</sup>		• / •	• / •	• / •	• / •	• / •
	Wi-Fi Frequency Range		• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)
	Ethernet (10 Base-T / 100 Base-TX)		•	•	•	•	•
	Bluetooth® Wireless Technology		•	•	•	•	•
	Panasonic Music Streaming App <sup>3)</sup>		•	•	•	•	•
	Re-streaming: Bluetooth® / CD / Radio / USB / AUX <sup>4)</sup>		• / — / — / — / •	• / — / — / — / •	• / — / — / — / —	• / — / — / — / •	— / — / — / — / —
	Stereo Pairing / WPS Support		• / •	• / •	• / •	• / •	• / •
<b>HIGH-QUALITY SOUND</b>	Bamboo Cone Speaker (Double-layer nano-sized Bamboo Cone Speaker)		•	•	—	—	—
	Formed Mica & Super Low Distortion Subwoofer		•	•	—	—	—
	LincsD-Amp / XBS Master		• 3rd generation / •	• 3rd generation / •	— / —	— / —	— / —
<b>DESIGN</b>	Waterproof <sup>5)</sup> / Portable / Wall-mountable		— / — / •	— / — / —	• / • / —	— / — / —	— / — / —
	Preset Button: Internet Radio / FM / DAB / Memory		2 buttons (• / — / — / —)	2 buttons (• / — / — / —)	6 buttons	6 buttons (• / — / — / —)	—
<b>SPEAKER</b>	Front Speaker	Configuration	2-way 2-speakers system, Bass-reflex	2-way 2-speakers system, Bass-reflex	1-way 2-speakers system, Passive radiator	1-way 1-speaker system	—
		Speaker Unit	Woofer: 8cm x2, Tweeter: 2.5cm x2	Woofer: 8cm x2, Tweeter: 2.5cm x2	6.5cm Full Range x2	8cm Long Stroke, Full Range x1	—
	Subwoofer	Configuration	1-way 1-speaker, Bass-reflex	—	—	—	—
		Speaker Unit	Subwoofer: 12cm, Mica x1	—	—	—	—
<b>TERMINALS</b>	Analogue Audio Input (AUX)	3.5mm Jack	•	•	•	•	•
	LAN Terminal	10 Base-T / 100 Base-TX	•	•	•	•	•
<b>OTHERS</b>	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 100–240V, 50/60Hz (AC adaptor)	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use / Standby	22W / 0.15W <sup>6)</sup>	14W / 0.2W <sup>6)</sup>	(AC adaptor) / 0.5W <sup>6)</sup>	12W / 0.3W <sup>6)</sup>	3W / —
	Playback Time with Battery		—	—	8.5 hours (Wi-Fi), 9 hours (Bluetooth®)	—	—
	Main Unit	Dimensions (W x H x D), Weight	373 x 224 x 138mm, 4kg	Horizontal: 248 x 131 x 155mm, Vertical: 131 x 248 x 165mm, 2.5kg	170 x 178 x 76mm, 1.5kg	120 x 180 x 135mm, 1.5kg	135 x 51 x 142mm, 0.34kg

<sup>1)</sup> Party Mode: playing a single sound source simultaneously through multiple speakers. The maximum number of speakers is limited (under study). / <sup>2)</sup> Multi-zone: playing each of multiple songs within the same network to separate speakers. The maximum number of sound sources is limited (under study). When using a subscription service, this function depends on the conditions of the service provider (under study). / <sup>3)</sup> \*\*Download on App Store. Download on Google Play™. / <sup>4)</sup> \*\*To use NFC without downloading the app, an OS Version 4.1 or later Android™ device is required. The installation of the Panasonic Music Streaming App allows use of an Android smartphone or tablet with the NFC function and OS Version 4.1 or earlier. / <sup>5)</sup> \*\*When you use the Panasonic Music Streaming App to stream music on this system to other ALLPlay speakers, the video and audio output may not be synchronised during playback of video contents. If music is streamed to other ALLPlay speakers for more than 8 hours, the other ALLPlay speakers will automatically stop playing the music. / <sup>6)</sup> \*\*The system must be combined with the SC-AL1701 to use this function. / <sup>7)</sup> \*\* Dropping or submerging the speakers in hot water may result in malfunction. If splashed with soap or shampoo, rinse gently with room-temperature tap water. Remove speaker from bathroom after use. / <sup>8)</sup> \*\*The other connected devices have to be turned off. Standby (Bluetooth® standby on) power consumption approximately 3.0W (ALL9, ALL6), 0.4W (ALL7CD). / <sup>9)</sup> \*\* Excluding the mount. Weight with the mount is approximately 0.35kg. When placing the speaker vertically, please use the included mount. / <sup>10)</sup> \*\* Playability may vary depending on the contents, discs and quality of the recording. / <sup>11)</sup> \*\* Only a USB flash drive. Playback is not possible from a portable device (Apple, Android, etc.) using a USB extension cable.

Specifications are subject to change without notice. All figures given here are approximate.

SPEAKERBOARDS

			HTE200	HTE80
			Speakerboard	Speakerboard
<b>AUDIO SYSTEM</b>	Output Channel		2.1ch	2.1ch
	Power Output (RMS)	Total Power	200W	120W
	Home Cinema Mode (RMS)	Front	50W per channel (1kHz, 6 ohms, 10% THD)	30W per channel (1kHz, 6 ohms, 10% THD)
		Subwoofer	100W (100Hz, 3 ohms, 10% THD)	60W (100Hz, 3 ohms, 10% THD)
	Dolby Digital / Dolby Pro Logic II / Dolby Virtual Speaker		• / • / •	• / • / •
	DTS Digital Surround		•	•
<b>SMART NETWORKING</b>	Multi-room Audio with Qualcomm® AllPlay™		—	—
	Wireless LAN System / Bluetooth® Wireless Technology		— / •	— / •
	Panasonic Music Streaming App <sup>1)</sup> / NFC (One-Touch Connection) <sup>2)</sup>		• / •	• / •
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX) <sup>3)</sup>		—	—
<b>HIGH-QUALITY SOUND</b>	Clear-mode Dialogue / Dialogue Level Control / H.Bass		• / • / •	• / • / •
	Sound Mode (Standard, Stadium, Music, Cinema, News, Stereo)		•	•
	Up to 7.1ch Linear PCM Input via HDMI		•	•
	Long Aero Stream Port / Dual Integrated Subwoofer		• / •	• / •
<b>HIGH-QUALITY PICTURE</b>	Full HD 3D Compatible / 1080p Output (x.v.Colour, Deep Colour)		• / •	• / •
<b>EASY OPERATION</b>	4K/60p Signal Pass Through		•	—
	Auto Gain Control / ARC (Audio Return Channel) <sup>4)</sup> / HDMI CEC		• / • / •	• / • / •
<b>SPEAKER SYSTEM</b>	Front	Configuration	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex
		Speaker Unit	Full Range: 3.8 x 9cm Cone Type x2	Full Range: 3.8 x 9cm Cone Type x2
	Subwoofer	Configuration	1-way 2-speakers, Bass-reflex	1-way 2-speakers, Bass-reflex
		Speaker Unit	Woofer: 8cm Cone Type x2	Woofer: 8cm Cone Type x2
<b>TERMINALS</b>	HDMI Output / HDMI Input / Optical Digital Audio Input		• (TV) / • (BD / DVD) / • (TV)	• (TV) / • (BD / DVD) / • (TV)
	Analogue Audio Input (AUX)	Pin Jack / 3.5mm Jack	• / —	• / —
<b>OTHERS</b>	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use / Standby	54W / 0.4W <sup>5)</sup>	27W / 0.25W <sup>5)</sup>
	Display / Remote Control		FL (Dot matrix) / •	FL (Dot matrix) / •
<b>DIMENSIONS, WEIGHT</b>	Dimensions (W x H x D), Weight		600 x 63 x 365mm, 5.9kg, (Maximum loading: 50kg)	460 x 60 x 280mm, (Maximum loading: 30kg)

<sup>1)</sup> App is available on App Store. App is available on Google Play™. / <sup>2)</sup> \*\*To use NFC without downloading the app, an OS Version 4.1 or later Android™ device is required. The installation of the Panasonic Music Streaming App allows use of an Android smartphone or tablet with the NFC function and OS Version 4.1 or earlier. / <sup>3)</sup> \*\*When you use the Panasonic Music Streaming App to stream music on this system to other ALLPlay speakers, the video and audio output may not be synchronised during playback of video contents. If music is streamed to other ALLPlay speakers for more than 8h, the other ALLPlay speakers will automatically stop playing the music. / <sup>4)</sup> \*\*ARC-compatible TV is required. / <sup>5)</sup> \*\*The other connected devices have to be turned off. Standby (Bluetooth® standby on) power consumption approx. 3.0W (HTE200), 1.5W (HTE80).

Specifications are subject to change without notice. All figures given here are approximate.

SOUNDBARS

			ALL70T	HTB885	HTB688	HTB488	HTB18/8
			Wireless Soundbar	Soundbar	Soundbar	Soundbar	Soundbar
<b>AUDIO SYSTEM</b>	Output Channel		3.1ch	5.1ch	3.1ch	2.1ch	HTB18: 2.1ch / HTB8: 2ch
	Power Output (RMS)	Total Power	350W	500W	300W	200W	HTB18: 120W / HTB8: 80W
	Home Theatre Mode (RMS)	Front	70W/ch (1kHz, 6 ohms, 10% THD)	50W/ch (1kHz, 6 ohms, 10% THD)	60W/ch (1kHz, 6ohms, 10% THD)	50W/ch (1kHz, 6ohms, 10% THD)	HTB18: 30W/ch (1kHz, 4 ohms, 10% THD) / HTB8: 40W/ch (1kHz, 8 ohms, 10% THD)
		Center	70W (1kHz, 6 ohms, 10% HD)	50W (1kHz, 6 ohms, 10% THD)	60W (1kHz, 6ohms, 10% THD)	—	—
	Surround	—	50W/ch (1kHz, 6 ohms, 10% THD)	—	—	—	
	Subwoofer	140W (100Hz, 3 ohms, 10% THD)	250W (100Hz, 8 ohms, 10% THD)	120W (100Hz, 3ohms, 10% THD)	100W (100Hz, 3ohms, 10% THD)	60W (100Hz, 8 ohms, 10% THD) / HTB8: —	
	Dolby Digital / Dolby Pro Logic II / Dolby Virtual Speaker / DTS Digital Surround		• / • / • / •	• / • / • / •	• / — / — / •	• / — / — / •	HTB18: • / — / — / • / HTB8: — / — / — / —
<b>SMART NETWORKING &amp; EASY OPERATION</b>	Multi-room Audio with Qualcomm® AllPlay™		•	—	—	—	—
	Wireless LAN System		•	—	—	—	—
	Wi-Fi Frequency Range / Ethernet (10 Base-T / 100 Base-TX)		• (5GHz / 2.4GHz) / •	— / —	— / —	— / —	— / —
	WPS Support / Bluetooth® Wireless Technology		• / •	— / •	— / •	— / •	— / •
	Panasonic Music Streaming App <sup>1)</sup> / NFC (One-Touch Connection) <sup>2)</sup>		• / •	• / •	• / —	• / —	• / —
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX) <sup>3)</sup>		• (Bluetooth®)	—	—	—	—
	4K/60p Signal Pass Through		• (HDCP2.2)	• (HDCP2.2)	—	—	—
	Wireless Subwoofer / Auto Gain Control		• / •	• / •	• / —	• / —	— / —
	IR Blaster Included / HDMI-CEC / ARC (Audio Return Channel) <sup>4)</sup>		• / • / •	• / • / •	• / • / •	• / • / •	— / — / —
Wall-mountable / Remote Control / Display		• / • / FL	• / • / FL	• / • / LED	• / • / LED	• / • / LED	
<b>HIGH-QUALITY SOUND</b>	LincsD-Amp / Clear-mode Dialogue		— / •	• (2nd generation) / •	— / —	— / —	— / —
	Dialogue Level Control		•	•	—	—	—
	Multi-angle Speaker Layout		• (0° / 90°)	• (0° / 90°)	—	—	• (0° / 90°)
	aptX™ Low Latency / H.Bass		— / •	• / •	— / —	— / —	— / —
Up to 7.1ch Linear PCM Input via HDMI		•	•	—	—	—	
<b>HIGH-QUALITY PICTURE</b>	Full HD 3D Compatible / 1080p Output (x.v.Colour, Deep Colour)		• / •	• / •	— / —	— / —	— / —
<b>SPEAKER SYSTEM</b>	Front	Configuration	1-way 1-speaker, Bass-reflex	2-way 2-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	HTB18: 1-way 1-speaker / HTB8: 1-way 1-speaker, Passive radiator
		Speaker Unit	Full Range: 6.5cm Cone Type	Woofer: 6.5cm Cone Type / Tweeter: 2.5cm Semi-dome Type	Full Range: 4.5 x 12cm Cone Type	Full Range: 4.5 x 12cm Cone Type	Full Range: 8cm Cone Type x2
	Centre	Configuration	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	—	—
		Speaker Unit	Full Range: 6.5cm Cone Type	Full Range: 6.5cm Cone Type	Full Range: 4.5 x 12cm Cone Type	—	—
Surround	Configuration	—	1-way 1-speaker, Bass-reflex	—	—	—	
	Speaker Unit	—	Full Range: 6.5cm Cone Type	—	—	—	
Subwoofer	Configuration	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex	1-way 1-speaker, Bass-reflex / HTB8: —	
	Speaker Unit	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type / HTB8: —	
<b>TERMINALS</b>	HDMI Output / HDMI Input / Optical Digital Audio Input		• (TV) / • (BD / DVD) / • (TV)	• (TV) / • (2 BD / DVD, AUX) / • (TV) / • (ARC <sup>5)</sup> ) / — / •	• (ARC <sup>5)</sup> ) / — / •	— / — / • (TV)	— / — / • (BD / DVD)
	Analogue Audio Input (AUX)	Pin Jack	—	—	—	—	—
<b>OTHERS</b>	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Front / Normal Use / Standby (Bluetooth® standby off)	42W / 0.48W <sup>6)</sup>	33W / 0.49W <sup>6)</sup>	30W / 0.5W <sup>6)</sup>	19W / 0.5W <sup>6)</sup>	HTB18: 35W / HTB8: 20W
	Subwoofer	Normal Use / Standby (Power switch off)	30W / 0.48W <sup>6)</sup>	46W / 0.2W <sup>6)</sup>	20W / 0.5W	18W / 0.5W	—
	Main Unit	Dimensions (W x H x D), Weight	950 x 65 x 120mm, 2.4kg	1125 x 51 x 121mm, 3.1kg	853 x 60.5 x 90mm, 2.3kg	853 x 60.5 x 90mm, 1.9kg	750 x 65.5 x 118mm, 2.3kg
<b>DIMENSIONS, WEIGHT</b>	Subwoofer	Dimensions (W x H x D), Weight	180 x 378 x 303mm, 5.0kg	180 x 408 x 306mm, 5.4kg	185 x 303 x 337mm, 4.3kg	185 x 303 x 337mm, 4.3kg	156 x 290 x 263mm, 3.0kg / HTB8: —

<sup>1)</sup> \*\*Download on App Store. Download on Google Play™. / <sup>2)</sup> \*\*To use NFC without downloading the app, an OS Version 4.1 or later Android™ device is required. The installation of the Panasonic Music Streaming App allows use of an Android smartphone or tablet with the NFC function and OS Version 4.1 or earlier. / <sup>3)</sup> \*\*When you use the Panasonic Music Streaming App to stream music on this system to other ALLPlay speakers, the video and audio output may not be synchronised during playback of video contents. If music is streamed to other ALLPlay speakers for more than 8h, the other ALLPlay speakers will automatically stop playing the music. / <sup>4)</sup> \*\*ARC-compatible TV is required. / <sup>5)</sup> \*\*The other connected devices have to be turned off. Standby (Bluetooth® standby on) power consumption approximately 3.0W (HTB885/ ALL70T), 2.0W (HTB688/ HTB488). / <sup>6)</sup> \*\* Standby (Wireless Link is not activated) power consumption approximately 0.4W (HTB885), 1.0W (ALL70T).

Specifications are subject to change without notice. All figures given here are approximate.

COMPACT MUSIC SYSTEMS

PMX/PM Series	PMX150/152	PMX80/82	PM600/602	PM250/250B
<b>AUDIO SYSTEM</b>	Output Channel Power Output (RMS) Total Power / Front	2ch 120W / 60W (1kHz, 3 ohms, 10% THD)	2ch 120W / 60W (1kHz, 3 ohms, 10% THD)	2ch 10W / 10W (1kHz, 6 ohms, 10% THD)
<b>PLAYABLE DISCS</b>	CD, CD-R/RW CD-DA / MP3	• / •	• / •	• / •
<b>USB</b>	Slot / USB Standard Playback	• x2 / USB 2.0 High Speed MP3, AIFC, AAC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (5.6MHz/2.8MHz)	• x2 / USB 2.0 High Speed MP3, AIFC, AAC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (2.8MHz *Not Support 5.6MHz)	• x1 / USB 2.0 Full Speed MP3*1
<b>TUNER</b>	Band (Station Presets) RDS / Auto Tuning	PMX150: FM (30) PMX152: FM (30), DAB Plus (20) • (EG) models only / •	PMX80: FM (30) PMX80B: FM (30), DAB Plus (20) • (EG) models only / •	PM600: FM (30) PM602: FM (30), DAB Plus (20) • (EG) models only / •
<b>SMART NETWORKING</b>	Multi-room Audio with Qualcomm® AllPlay™ Wireless LAN System / AirPlay Home Network Music Playback Wi-Fi Frequency Range Ethernet (10 Base-T/ 100 Base-TX) Bluetooth® Wireless Technology / WPS Support Panasonic Music Streaming App*2 USB Connection for iPod / iPad / iPhone*3 Re-streaming Net Preset Button (for Internet Radio)	• • / • • • (5GHz/ 2.4GHz) • • / • • • (Playback / Charging) • (Bluetooth®, CD, Radio, USB Memory, USB-DAC, AUX)*4 • Main Unit & Remote Control (6 Presets)	— — / — — — — • / — — • (Playback / Charging) — —	— — / — — — — • / — — — — —
<b>HIGH-QUALITY SOUND</b>	Full Digital Amplifier System / LincS-D-Amp VGA (Variable Digital Gain Amplifier) USB-DAC Function XBS Master / Bluetooth® Re-Master Super Sonic Tweeter Bamboo Plant Optat Cone / Bamboo Charcoal PP Cone Preset EQ / Bass & Treble Control	• / • 3rd generation • MP3, AIFC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (5.6MHz/2.8MHz) • / • • • (Woofer) / — 4 (Heavy, Soft, Clear, Vocal) + Flat / •*7	• / • 3rd generation • MP3, AIFC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (2.8MHz *Not Support 5.6MHz) • / • — / • (Woofer) 4 (Heavy, Soft, Clear, Vocal) + Flat / •*7	• / — • — — / — — 4 (Heavy, Soft, Clear, Vocal) + Flat / •
<b>SPEAKER SYSTEM</b>	Front Configuration Speaker Unit	3-way 3 speaker system Woofer: 14cm Cone Type, Tweeter: 1.9 m Dome Type Super Sonic Tweeter: 1.2cm Piezo Type	3-way 3 speaker system Woofer: 14cm Cone Type, Tweeter: 1.9 m Dome Type Super Tweeter: 1.5cm Piezo Type	1-way 1 speaker, Bass-reflex Full Range: 10cm Cone Type Tweeter: Paper 6cm Cone Type x1
<b>TERMINAL</b>	LAN Terminal Analogue Audio Input (AUX) Pin Jack Headphone Output	• • •	— • •	— — —
<b>OTHERS</b>	Power Supply Power Consumption Normal Use / Standby Auto Power Off / Dimmer Programmable Timer Display / Remote Control	AC 220~240V, 50Hz 45W / 0.4W*4 • / • Sleep / Clock / Play Timer Dot Matrix FL / •	AC 220~240V, 50Hz 44W / 0.35W*4 • / • Sleep / Clock / Play Timer FL / •	AC 220~240V, 50Hz 17W / 0.3W*4 • / • Sleep / Clock / Play Timer LCD / •
<b>DIMENSIONS, WEIGHT</b>	Main Unit (W x H x D) Front Speaker (W x H x D)	211 x 114 x 267mm, 3.0kg 161 x 238 x 264mm, 3.0kg	211 x 114 x 267mm, 2.8kg 161 x 238 x 262mm, 2.6kg	184 x 123 x 228mm, 1.1kg 139 x 224 x 136mm, 1.3kg

\*1 Only a USB flash drive. Playback is not possible from a portable device (Apple, Android, etc.) using a USB extension cable. / \*2 Download on the App Store. Download on Google Play™. / \*3 Not all models are compatible. See dealer for details. / \*4 When you use the app "Panasonic Music Streaming" to stream music on this system to other ALLPlay speakers, the video and audio output may not be synchronised during playback of video contents. If music is streamed to other ALLPlay speakers for more than 8 hours, the other ALLPlay speakers will automatically stop playing the music. / \*5 DSD 5.6MHz files can be played on this unit only. (5.6MHz files can not re-stream to other units.) / \*6 Standby (Bluetooth standby on) power consumption approximately 0.5W (PMX150/152), 0.45W (PMX80/82), 0.4W (PM600/602), 0.3W (PM250/250B) / \*7 Knob on main unit.

Specifications are subject to change without notice. All figures given here are approximate.

COMPACT MUSIC SYSTEMS

RS Series	RS52	RS30	
<b>AUDIO SYSTEM</b>	Output Channel Output Power: Front Channel (both ch driven) Total RMS Power	2ch 20W per channel (8 ohms, 1kHz, 10% THD) 40W	2ch 20W per channel (8 ohms, 1kHz, 10% THD) 40W
<b>SPEAKER SYSTEM</b>	Type Speaker Unit	2-way, 1-speaker system (Bass-reflex) Full Range 6.5cm Cone Type x2, Twisted Acoustic Port	1-way, 1-speaker system (Bass-reflex) Full Range 8cm Cone Type x2, Twisted Acoustic Port x2
<b>CD / DVD</b>	Playback Disc*1 Format	CD, CD-R / RW CD-DA / MP3	CD, CD-R / RW CD-DA / MP3
<b>USB</b>	USB Standard Support Format Playback*2 Battery Charge	USB 2.0 High speed MP3 / AAC / FLAC / AIFC / WAV • 1.5A only	USB 2.0 full speed MP3 • 1.5A only
<b>TUNER</b>	Band (Station Presets) FM DAB Plus RDS	30 stations 20 stations • (not for EB models)	30 stations — • (not for EB models)
<b>NETWORK</b>	Bluetooth Version / Class Smartphone App*3 Music Streaming*4	Bluetooth® Ver 2.1 + EDR / Class 2 • (iOS, Android, Black Berry, Windows Phone)	Bluetooth® Ver 2.1 + EDR / Class 2 • (iOS, Android, Black Berry, Windows Phone)
<b>SOUND FUNCTION</b>	LincS D-Amp Bluetooth® Re-Master D.Bass Clear-mode Dialogue Surround Sound Mode Preset EQ / My Sound Setting	• (3rd generation) • • • • • / •	• (3rd generation) • • • • • / •
<b>TERMINALS</b>	USB Port Audio IN / Audio OUT	x1 — / Phones (3.5mm)	x1 — / Phones (3.5mm)
<b>GENERAL</b>	Power Supply Power Consumption Normal Use Standby Auto Power OFF / Dimmer Timer Function	AC 220~240V, 50Hz 24W Normal: 0.3W, Bluetooth: 0.4W, Network: — • / • • (Sleep / Clock / Play)	AC 220~240V, 50Hz 24W Normal: 0.3W, Bluetooth: 0.35W, Network: — • / • • (Sleep / Clock / Play)
<b>DIMENSIONS, WEIGHT</b>	Dimensions (W x H x D), Weight	450 x 107 x 245mm, 3.4kg	450 x 107 x 245mm, 3.4kg

\*1 Playability may vary depending on the contents, discs and quality of the recording. / \*2 Only a USB flash drive. Playback is not possible from a portable device (Apple, Android, etc.) using a USB extension cable. / \*3 Download on the App Store. Download on Google Play™. / \*4 Bluetooth only.

Specifications are subject to change without notice. All figures given here are approximate.

COMPACT MICRO SYSTEMS

HC Series	HC1020	HC402/400	HC295	HC195	
<b>AUDIO SYSTEM</b>	Output Channel Output Power: Front Channel (both ch driven) Total RMS power	2ch 20W per channel (8 ohms, 1kHz, 10% THD) 40W	2ch 20W per channel (8 ohms, 1kHz, 10% THD) 40W	2ch 10W per channel (8 ohms, 1kHz, 10% THD) 20W	
<b>SPEAKER SYSTEM</b>	Type Speaker Unit	1-way, 1-speaker system (Bass-reflex) Full Range: 8cm Cone Type x2, Twisted Acoustic Port x2	1-way, 1-speaker system (Bass-reflex) Full Range: 8cm Cone Type x2, Twisted Acoustic Port x2	1-way, 1-speaker system (Bass-reflex) Full Range: 8cm Cone Type x2, Bass Reflex Port	
<b>CD / DVD</b>	Playback Disc*1 Format	CD, CD-R / RW CD-DA / MP3	CD, CD-R / RW CD-DA / MP3	CD, CD-R / RW CD-DA / MP3	
<b>USB</b>	USB Standard Support Format Playback*2 Battery Charge	USB 2.0 Full Speed MP3 • 1.5A only	USB 2.0 Full Speed MP3 • 1.5A only	USB 2.0 Full Speed MP3 • 1.5A only	
<b>TUNER</b>	Station Presets FM DAB Plus RDS	30 stations 20 stations • (EG) models only	30 stations HC402: 20 stations / HC400: — • not for SC-HC402EB models	30 stations — • (EG) models only	
<b>NETWORK</b>	Bluetooth Version / Class Wi-Fi Frequency Range Qualcomm® AllPlay™ Smartphone App*3 Music Streaming*4 Online Music Services	Bluetooth® Ver 2.1 + EDR / Class 2 IEEE802.11 a/b/g/n 2.4GHz band / 5GHz band Support Format: MP3 / AAC / FLAC / ALAC / WAV • (iOS, Android, Black Berry, Windows Phone) • / •	Bluetooth® Ver 2.1 + EDR / Class 2 — — — • (iOS, Android, Black Berry, Windows Phone) — / —	Bluetooth® Ver 2.1 + EDR / Class 2 — — — • (iOS, Android, Black Berry, Windows Phone) — / —	
<b>SOUND FUNCTION</b>	LincS D-Amp Bluetooth Re-Master D.Bass / Clear-mode Dialogue Wall-mount Sound Mode / Surround Sound Mode Preset EQ / My Sound Setting	• (3rd generation) • • / • • / • • / •	• (3rd generation) • • / • • / • • / •	— • • / — — / • • / •	
<b>TERMINALS</b>	USB Port Audio IN / OUT LAN	• (x1) AUX 3.5mm x1 / — •	• (x1) AUX 3.5mm x1 / — —	• (x1) — / — —	
<b>GENERAL</b>	Power Supply Power Consumption Normal Use Standby Auto Power OFF / Dimmer 5 Preset Buttons Radio / Internet Radio Online Music Services Timer Function Wall-mountable AC Cord Cord Colour	AC 220~240V, 50Hz 25W Normal: 0.2W, Bluetooth: 0.3W, Network: 2W • / • • / • • • (Sleep / Clock / Play) • 2m Silver model: white Black model: black	AC 220~240V, 50Hz 23W Normal: 0.2W, Bluetooth: 0.3W, Network: — • / • • / — — • (Sleep / Clock / Play) • 2m Silver & White* model: white, Black model: black HC400: Silver model: white, Black model: black	AC 220~240V, 50Hz 23W Normal: 0.2W, Bluetooth: 0.3W, Network: — • / • — / — — • (Sleep / Clock / Play) • 1.5m black	AC 220~240V, 50Hz 14W Normal: 0.2W, Bluetooth: —, Network: — • / • — / — — • (Sleep / Clock / Play) • 1.5m black
<b>DIMENSIONS, WEIGHT</b>	Main Unit Dimensions (W x H x D), Weight	420 x 225 x 102mm, 2.5kg	420 x 225 x 102mm, 2.4kg	400 x 197 x 107mm, 1.9kg 400 x 197 x 107 mm, 1.9kg	

\*1 Playability may vary depending on the contents, discs and quality of the recording. / \*2 Only a USB flash drive. Playback is not possible from a portable device (Apple, Android, etc.) using a USB extension cable. / \*3 Download on the App Store. Download on Google Play™. / \*4 Bluetooth only, except SC-HC1020 (iOS, Android) / \*5 not for SC-HC402(EB)

Specifications are subject to change without notice. All figures given here are approximate.

DIGITAL RADIO

	D20	D10	
	Portable Digital Radio	Portable Digital Radio	
<b>AUDIO SYSTEM</b>	Output Channel Power Output (RMS)	1ch 3W (10% THD), AC Adaptor Mode 2W (10% THD), Battery Mode	1ch 2W (10% THD), Total Power
<b>TUNER</b>	Band / Station Preset Auto Tuning Frequency Range RDS	FM (Mono) / DAB / DAB Plus • FM 87.5~108MHz (50kHz step) •	FM / DAB / DAB Plus • (for FM) FM 87.5~108.0MHz (50kHz step), DAB BAND III (5A~13F) •*1
<b>EASY OPERATION</b>	Bluetooth® Wireless Technology Clock (Auto Time Adjustment) Sleep Timer / Alarm Memory Tuning DAB scan*1	• • (+/- 70 Sec. / Month) 30, 60, 90, 120 Min. / • 5 User Memory Tuning •	— • 30, 60, 90, 120 Min. / • 10 Channel Memory •
<b>DESIGN</b>	Configuration Speaker Unit	1-way 1-speaker 5cm	1-way 1-speaker Full Range: 10cm (4 ohms)
<b>SPEAKER SYSTEM</b>	Display Splash Proof	LCD with Backlight • (IPX3)	LCD with Backlight —
<b>TERMINALS</b>	Earphone / Headphone (3.5mm)	—	• (Stereo Mini)
<b>OTHERS</b>	Power Source Power Consumption Normal Use Standby	Battery DC 4.5V (3x R6 / LR6) AC 220~240V, 50/60Hz 2W 0.8W (with LCD Dimmer Off)	DC 6V / C x4 (R14 / LR14) 220~240V, 50/60Hz 7W 0.6W
<b>DIMENSIONS, WEIGHT</b>	Dimensions (W x H x D) Weight	90 x 140 x 100mm 0.7kg (with batteries), 0.6kg (w/o batteries)	251 x 138 x 91mm 1.3kg (with batteries), 1.0kg (w/o batteries)

\*1 Not for RF-010 (SN). / \*2 DAB scan can be done by selecting Full Scan from menu.

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HIGH POWER AUDIO SYSTEMS

		MAX4000	CMAx5	AKX660	AKX220	UX100/102	
		Party Audio System	Portable Party Audio System	Party Audio System	Party Audio System	Party Audio System	
<b>AUDIO SYSTEM</b>	Output Channel	2ch	1ch	2ch	2ch	2ch	
	Power Output (Total Power) RMS	2400W	1000W	1700W**	450W**	300 W**	
<b>PLAYABLE DISCS</b>	CD, CD-R / RW	• / •	— / —	• / •	• / •	• / •	
	CD-DA / MP3	• / •	— / —	• / •	• / •	• / •	
<b>USB</b>	Slot	2x USB 2.0 Full Speed	2x USB 2.0 Full Speed	2x USB 2.0 Full Speed	2x USB 2.0 Full Speed	1x (Play) USB 2.0 Full Speed	
	Double USB	Slot A / Slot B	Play / Rec + Play	Play / Rec + Play	Play / Play	— / —	
	Playback	MP3	•	•	•	•	
	Recording Speed	Hi-speed (max. x3 for CD)	—	Hi-speed (max. x3 for CD)	—	—	
<b>INTERNAL MEMORY</b>	Capacity / Recordable & Playable Type	2GB / MP3	— / —	4GB / MP3	— / —	— / —	
	Transfer from CD / Bluetooth***/ USB / Radio / AUX-IN**	•	—	•	—	—	
<b>TUNER</b>	Band (Station Presets)	FM (30), AM (15)	—	FM (30), AM (15)	FM (30), AM (15)	UX100: FM (30) UX102: FM (30), DAB Plus (20)	
<b>SMART NETWORKING</b>	Bluetooth® Wireless Technology	•	•	•	•	•	
	NFC (One-Touch Connection)**	•	—	—	—	—	
	MAX Juke App Compatible**	•	•	•	•	•	
<b>HIGH-QUALITY SOUND</b>	Digital Amplifier	• (Triple-Amp)	• (Triple-Amp)	• (Bi-Amp)	•	•	
	AIRQUAKE BASS / D Bass	• / • (Beat)	— / • (Beat)	• / • (Beat)	— / • (Beat)	— / • (Beat)	
	Hard Press Corrugation	• (Super Woofer / Woofer)	—	• (Super Woofer)	• (Woofer)	—	
	Local Preset Equaliser	• (Add footbal)	•	•	•	•	
	Manual Equalizer	• (Bass / Mid / Treble)	• (Bass / Mid / Treble)	• (3 Band + Surround)	• (3 Band + Surround)	• (3 Band + Surround)	
	Bluetooth® Re-Master	•	•	—	—	—	
<b>EASY OPERATION</b>	DJ Jukebox / DJ Sampler / MAX DJ Effect / Karaoke Function	• (Crossfade / Mix) / • / • / • (Simple)	• (Crossfade) / — / — / • (Full)	• / • / — / —	• / — / — / —	• / — / — / —	
	Rotary Music Selection during Playback / Auto Power Off	• / •	• / •	• / •	— / •	— / •	
	Programmable Timer	Play / Rec / Sleep	Play / Rec / Sleep	Play / Rec / Sleep	Play / Sleep	Play / Sleep	
<b>SPEAKER SYSTEM</b>	Front Configuration	3-way 3-speakers	1-way 1-speaker, Bass-reflex (High, Mid & SW)	3-way 3-speakers	2-way 2-speakers	2-way 2-speakers	
	Speaker Unit	Super Woofer: 30cm Cone Type Woofer: 20cm Cone Type Tweeter: 6cm Cone Type	Super Woofer: 25cm Cone Type Woofer: 10cm Cone Type Tweeter: 6cm Cone Type	Super Woofer: 20cm Cone Type Woofer: 8cm Cone Type Tweeter: 6cm Cone Type	Woofer: 16cm Cone Type Tweeter: 6cm Cone Type	Woofer: 1cm Cone Type Tweeter: 5cm Cone Type	
<b>TERMINALS</b>	Analogue Audio Input	Pin Jack / 3.5mm Jack	• / •	• / •	• / —	• / —	
	MIC Jack (6.3mm)	•	• (2x) Guitar input available for 1 MIC	—	—	—	
<b>OTHERS</b>	Power Supply	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	
	Power Consumption	Normal Use / Normal Standby	155W / 0.4W**	92W / 0.4W**	190W / 0.5W**	60W / 0.5W**	49W / 0.5W**
<b>DIMENSIONS, WEIGHT</b>	Main Unit	Dimensions (W x H x D), Weight	492 x 221 x 421mm, 5.8kg	378 x 724 x 436mm*, 19.8kg	348 x 193 x 251mm, 3.2kg	348 x 193 x 251mm, 2.5kg	250 x 132 x 227mm, 1.7kg
	Front Speaker	Dimensions (W x H x D), Weight	407 x 709 x 389mm, 19kg	—	313 x 425 x 264mm, 6.9kg	199 x 333 x 210mm, 3.3kg	181 x 308 x 165mm, 2kg

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URBAN AUDIO SYSTEMS

		UA7	UA4	UA3	
		Urban Audio System	Party Audio System	Party Audio System	
<b>AUDIO SYSTEM</b>	Output Channel	2ch	2ch	2ch	
	Output Power	Front Channel (both ch driven) Total RMS power	375W per channel (3 ohms, 1kHz, 30% THD) 1700W	TBD TBD	TBD TBD
<b>PLAYABLE DISCS</b>	Playback Disc**	—	CD, CD-R / RW	CD, CD-R / RW	
	Format	—	TBD	TBD	
<b>USB</b>	USB Standard	USB 2.0 full speed	TBD	TBD	
	Support Format	MP3	TBD	TBD	
	Playback	—	TBD	TBD	
	Battery Charge	500mA only	500mA only	500mA only	
<b>TUNER</b>	Station Presets	FM DAB Plus	30 stations —	30 stations —	
	RDS	•	•	•	
<b>SMART NETWORKING</b>	Bluetooth	Version / Class	Bluetooth® Ver 2.1 + EDR / Class 2	TBD	
	Smartphone App	Music Streaming**	• (Android)	• (Android)	
<b>SOUND FUNCTION</b>	D.Bass / Room-Filling Expansive Sound	• / —	• / •	• / •	
	Manual EQ	• (3 Band + Surround)	• (3 Band + Surround)	• (3 Band + Surround)	
	DJ Function / Karaoke Function	• (Jukebox) / •	• (Jukebox) / •	• (Jukebox) / •	
	Preset EQ / Manual Equalizer	• / • (Bass / Mid / Treble + Surround)	• / • (Bass / Mid / Treble)	• / • (Bass / Mid / Treble)	
	Low Distortion Technology	•	•	•	
<b>SPEAKER</b>	Front Configuration	Front Speaker Subwoofer	2-way 4-speaker system (Bass-reflex) 1-way 1-speaker system	3-way 3-speaker system (TBD) —	
	Speaker Unit	Front Speaker Subwoofer	6cm Tweeter x4, 8cm Woofer x4 16cm Super Woofer x2	4cm Tweeter x4, 13cm Woofer x2 —	
	Front Speaker	—	—	—	
	Subwoofer	—	—	—	
<b>TERMINALS</b>	OPT-IN / USB Port	• / • (x2)	• / • (x1)	• / • (x1)	
	Audio IN / OUT	AUX 3.5mm x2 / Pin Jack Stereo	AUX Pin Jack x1 / —	AUX Pin Jack x1 / —	
<b>GENERAL</b>	Power Supply	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	
	Power Consumption	Normal Use Standby: Normal / Bluetooth® Standby	190W 0.5W / 0.6W	TBD / TBD	TBD / TBD
	Auto Power Off	•	•	•	
	Dimmer / Timer Function	• / • (Sleep / Clock / Play)	• / • (Sleep / Clock / Play)	• / • (Sleep / Clock / Play)	
	Illumination / Display / Remote Control	• (For Top Panel and Center) / FL / •	• (Blue Illumination) / FL / •	• (Blue Illumination) / FL / •	
<b>DIMENSIONS, WEIGHT</b>	Dimensions (W x H x D) / Weight	260 x 744 x 295mm / 14kg	TBD / TBD	TBD / TBD	

\*\* Playability may vary depending on the contents, discs and quality of the recording. / \*\* Download on Google Play™.

Specifications are subject to change without notice. All figures given here are approximate.

HEADPHONES SPORTS

		BTS50	BTS30	BTS10	HS34/34M	
		Clip	Clip	Clip	Clip	
<b>FEATURES</b>	Driver Unit (Magnet Type: Neodymium)	12mm	9mm	14.3mm	14.3mm	
	Impedance	32 ohms	32 ohms	23 ohms	23 ohms	
	Sensitivity	—	—	—	112dB/mW	
	Max. Input (Power Handling Capacity)	—	—	—	200mW (IEC*)	
	Frequency Response	—	—	—	10Hz–25kHz	
	Cord	Cord Length MiniPlug (3.5mm)	—	—	—	1.2m
	Plug	—	—	—	•	
	Remote / Mic	• / •	• / •	• / •	Nickel	
	Weight	22g	20g	20g (tentative)	9.5g (w/o cord)	
	Supplied Items	USB charging cord, carrying case, earpieces (S, M, L)	USB charging cord, carrying pouch, earpieces (S, M, L)	USB charging cord 0.1m	—	
	<b>ADVANCED</b>	Bluetooth® Wireless Tech. Version / Operating Distance	4.1 / Up to 10m	4.1 / Up to 10m	4.1 / Up to 10m	— / —
Supported Profiles / Codec		A2DP, AVRCP, HSP, HFP SBC, aptX™, AAC	A2DP, AVRCP, HSP, HFP SBC	A2DP, AVRCP, HSP, HFP SBC	—	
Playback Time with Battery / Charging Time (25°C)		6h / 90min	6h / 90min	4h 20min / 90min	— / —	
Waterproof		IPX5 equivalent	IPX4 equivalent	IPX2 equivalent	IPX2 equivalent	

HEADPHONES PREMIUM

		HD10	HD6M	HDE10	HDE5M	HDE3M
		Headband	Headband	In-Ear	In-Ear	In-Ear
<b>FEATURES</b>	Driver Unit (Magnet Type: Neodymium)	50mm	40mm	11.5mm	11mm	11mm
	Impedance	18 ohms	44 ohms ±15%	34 ohms	28 ohms	20 ohms
	Sensitivity	92dB/mW	99dB/mW (at 500Hz)	108dB/mW	107dB/mW (at 500Hz)	106dB/mW (at 500Hz)
	Max. Input (Power Handling Capacity)	150mW (IEC*)	100mW (IEC*)	150mW (IEC*)	200mW (IEC*)	200mW (IEC*)
	Frequency Response	4Hz–50kHz	4Hz–40kHz	3Hz–50kHz	5Hz–45kHz	5Hz–40kHz
	Cord	Cord Length MiniPlug (3.5mm) / Plug Adaptor (6.3mm)	1.2m (3.0m detachable)	1.2m	1.2m	1.2m
	Plug	—	• / •	• / —	• / —	• / —
	Remote / Mic	— / —	• / •	• / •	• / •	• / •
	Weight	305g (w/o cord)	240g, 228 g (w/o cord)	12g (w/o cord)	20.5g (net), 7g (w/o cord)	17.5g (net), 6g (w/o cord)
	Supplied Items	Carrying pouch, 6.3mm plug adaptor, detachable cords (1.2m and 3.0m)	—	Carrying case, cord clip, cord adjustment holder, earpieces (XS, S, M, L)	Carrying case, cord adjustment holder, earpieces (XS, S, M, L, XL)	Carrying pouch, cord adjustment holder, earpieces (XS, S, M, L, XL)

HEADPHONES ENTRY: HEADBAND

		BT05	HF400B	HF500/500M	HF300/300M	HF100/100M	
		Headband	Headband	Headband	Headband	Headband	
<b>FEATURES</b>	Driver Unit (Magnet Type: Neodymium)	40mm	30mm	40mm	30mm	30mm	
	Impedance	32 ohms	32 ohms	25 ohms ±15%	35 ohms ±15 %	26 ohms ±15%	
	Sensitivity	—	—	110dB/mW (at 500Hz)	110dB/mW (at 500Hz)	103dB/mW (at 500Hz)	
	Max. Input (Power Handling Capacity)	—	—	1000mW (IEC*)	1000mW (IEC*)	1000mW (IEC*)	
	Frequency Response	—	—	9Hz–26kHz	10Hz–23kHz	10Hz–23kHz	
	Cord	Cord Length MiniPlug (3.5mm)	—	—	1.2m	1.2m	1.2 m
	Plug	—	—	•	•	•	
	Remote / Mic	• / •	• / •	HF500M: • / • HF300M: • / •	HF300M: • / • HF100M: • / •	HF100M: • / • HF300M: • / •	
	Weight	155g (w/o cord)	130g	HF500M: 143g, 120g (w/o cord); HF300M: 144g, 120g (w/o cord)	HF300M: 124g, 98g (w/o cord); HF100M: 137g, 113g (w/o cord)	HF100M: 137g, 113g (w/o cord); HF300M: 124g, 98g (w/o cord)	
	Supplied Items	USB charging cord 0.6m	USB charging cord 0.1m	—	—	—	
	<b>ADVANCED</b>	Bluetooth® Wireless Tech. Version / Operating Distance	— / —	4.1 / Up to 10m	— / —	— / —	— / —
Supported Profiles / Codec		—	A2DP, AVRCP, HSP, HFP / SBC	—	—	—	
Playback Time with Battery / Charging Time (25°C)	— / —	20h / 3h	— / —	— / —	— / —		

HEADPHONES ENTRY: IN-EAR

		NJ300B	HJX6M	TCM360	TCM105	TCM50	HJE125	HV41
		In-Ear	In-Ear	In-Ear	In-Ear	In-Ear	In-Ear	In-Ear
<b>GENERAL</b>	Driver Unit (Magnet Type: Neodymium)	9mm	12mm	9mm	9mm	14.8mm	9mm	14.8mm
	Impedance	16 ohms	16 ohms	14 ohms	16 ohms	25 ohms	16 ohms	16 ohms
	Sensitivity	—	103dB/mW	93dB/mW (at 1kHz)	99dB/mW	101dB/mW	97dB/mW	104dB/mW
	Max. Input (Power Handling Capacity)	—	100mW (IEC*)	200mW (IEC*)	200mW (IEC*)	300mW (IEC*)	200mW (IEC*)	40mW (IEC*)
	Frequency Response	—	5Hz–25kHz	6Hz–24kHz	10Hz–24kHz	10Hz–25kHz	10Hz–24kHz	10Hz–25kHz
	Cord	Cord Length MiniPlug (3.5mm)	—	1.2m	1.2m	1.2m	1.1m	1.1m
	Plug	—	•	•	•	•	•	•
	Remote / Mic	• / •	• / •	• / •	• / •	• / •	— / —	— / —
	Weight	13g	6g (w/o cord)	14g, 2.5g (w/o cord)	2.5g (w/o cord)	4.3g (w/o cord)	4g (w/o cord)	6g (w/o cord)
	Supplied Items	USB charging cord 0.1m, earpieces (S, M, L)	Carrying pouch, earpieces (S, M, L)	Earpieces (S, M, L)	Earpieces (S, M, L)	Earpieces (S, M, L)	Earpieces (S, M, L)	—
	<b>ADVANCED</b>	Bluetooth® Wireless Tech. Version / Operating Distance	4.1 / Up to 10m	— / —	— / —	— / —	— / —	— / —
Supported Profiles / Codec		A2DP, AVRCP, HSP, HFP SBC	—	—	—	—	—	
Playback Time with Battery / Charging Time (25°C)	90min / 5h	— / —	— / —	— / —	— / —	— / —	— / —	

\*IEC: International Electrotechnical Commission. / Specifications are subject to change without notice. All figures given here are approximate.

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