Panasonic

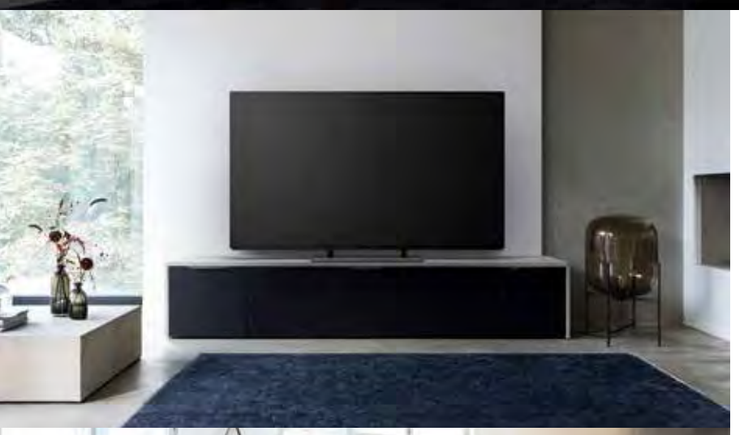
HOLLYWOOD TO YOUR HOME



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[2] 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 Valentic, 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 Valentic, 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

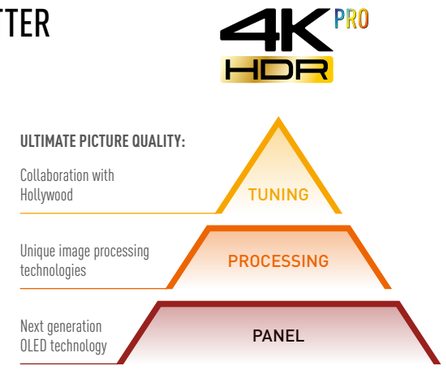
By combining the stunning contrast and colour of OLED technology with professional-grade processing, Panasonic has delivered its most accurate and detailed picture ever.

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.





PANASONIC CONVENTIONAL

ABSOLUTE BLACK FILTER

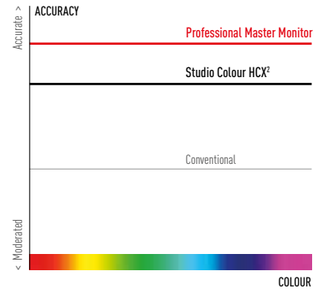
While OLED technology is renowned for its ability to deliver 'absolute black', external reflections can reduce the accuracy of black tone reproduction. The unique Absolute Black Filter inside Panasonic OLED TV, though, neutralises reflections, resulting in far more consistently accurate black shades.

only for EZ1000



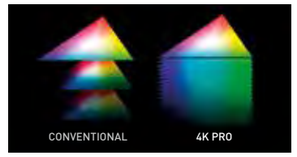
STUDIO COLOUR HCX²

The driving force behind the cutting-edge processing inside 2017's top-tier Panasonic TVs is the new Studio Colour HCX² processor. As well as controlling the 3D LUT and Delta Zero Colour Accuracy systems, HCX² 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 (ΔO) COLOUR ACCURACY

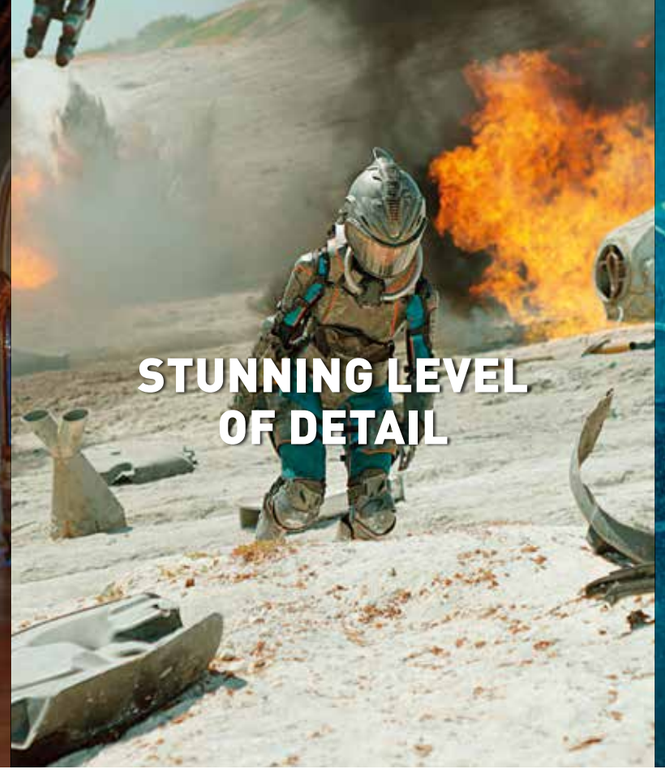
This feature identifies and compensates for variations in specific colours caused by the individual characteristics of a TV's panel. The result is images that get unprecedentedly close to master monitor levels of accuracy.



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.









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.

HDR10

Hybrid Log Gamma

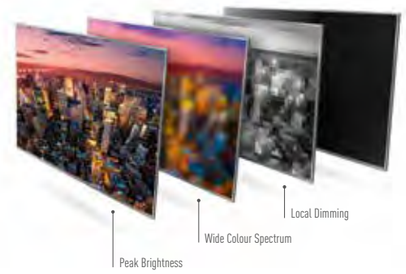


4K HDR GAME MODE

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.

TRUE TO THE FILMMAKER'S VISION

Panasonic's new Cinema Displays are 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.



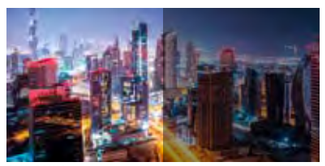
CINEMA DISPLAY



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 advanded 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.





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.

VOD STREAMING:
Stream your favourite movies and videos whenever you want.

NETFLIX YouTube amazon wuaki.tv anytime arte CineTrailer

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.

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.

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



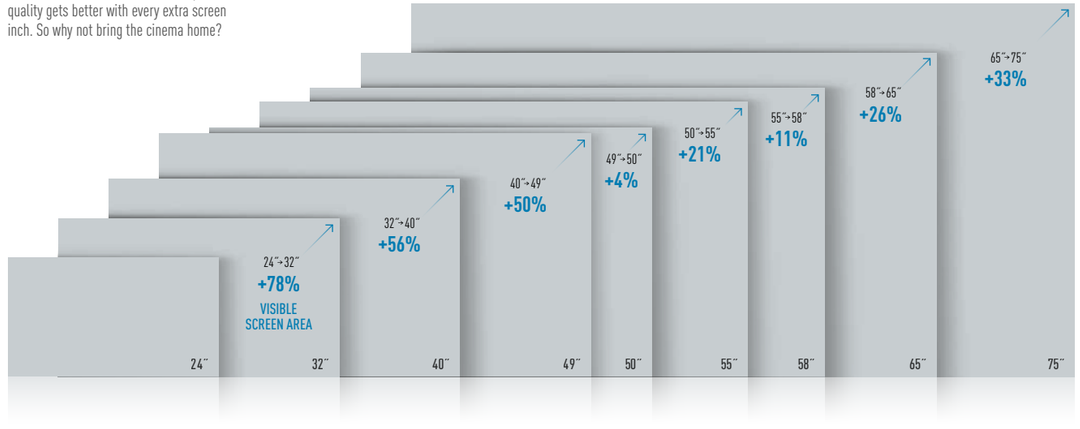
ES500 SERIES



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





EZ1000 SERIES

TX-65EZ1000 ●

OLED

4K PRO HDR

Ultimate Picture Quality – Hollywood To Your Home

TENTATIVE ENERGY EFFICIENCY CLASS B

Master HDR OLED – original Panasonic driving technology and unique black filter to maximize OLED advantages
Studio Colour HCX² 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

MASTER HDR OLED | STUDIO COLOUR HCX 2 | PICTURE TUNED IN HOLLYWOOD | ABSOLUTE BLACK | IP HOME NETWORK | Art& Interior | THX 4K DISPLAY | HDR MULTI FORMAT SUPPORT







Art&
Interior

HIGH-QUALITY MATERIALS,
ELEGANT LINES AND A PREMIUM FINISH

HOLLYWOOD IN YOUR LIVING ROOM

65"
164cm

55"
139cm





EZ950 SERIES

TX-65EZ950 ●
TX-55EZ950 ●

OLED

4K PRO HDR

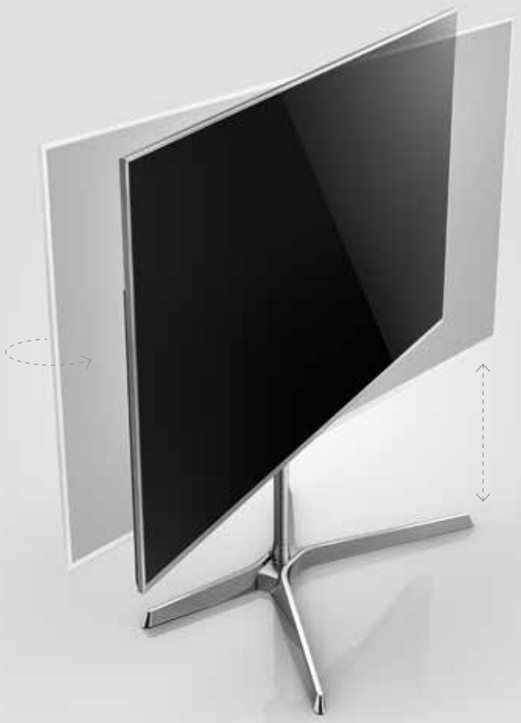
A Truly Cinematic Experience – Tuned In Hollywood

TENTATIVE ENERGY EFFICIENCY CLASS B

4K UHD OLED TV – next generation TV technology for the ultimate in accuracy and contrast
Studio Colour HCX² 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

OLED · STUDIO COLOUR HCX 2 · PICTURE TUNED IN HOLLYWOOD · my Home Screen 2.0 · IP HOME NETWORK · Art& Interior · THX 4K DISPLAY · HDR MULTI HDR SUPPORT





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"

TRULY UPLIFTING TELEVISION

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





EX780 SERIES

Premium Picture Quality With "Swivel & Lift" Design

TENTATIVE ENERGY EFFICIENCY CLASS A+ *1

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

4K UHD LED TV with 2400Hz (BMR) – cutting-edge Cinema Display for premium picture and motion quality
Studio Colour HCX² 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"

4K PRO HDR

2400Hz BMR INTELLIGENT FRAME CREATION 4K | STUDIO COLOUR HCX 2 | CINEMA DISPLAY | HDR MULTI HDR SUPPORT | LOCAL DIMMING | Art& Interior | SUPER BRIGHT PANEL | SWITCH DESIGN *2

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

TENTATIVE ENERGY EFFICIENCY CLASS A*1

- 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"

4K HDR · 1600Hz BMR · HDR MULTI-FORMAT SUPPORT · WIDE COLOUR SPECTRUM · ADVANCED COLOUR PROCESSING 4K · LOCAL DIMMING · IN-HOUSE TV STREAMING · SWITCH DESIGN · Art & Interior

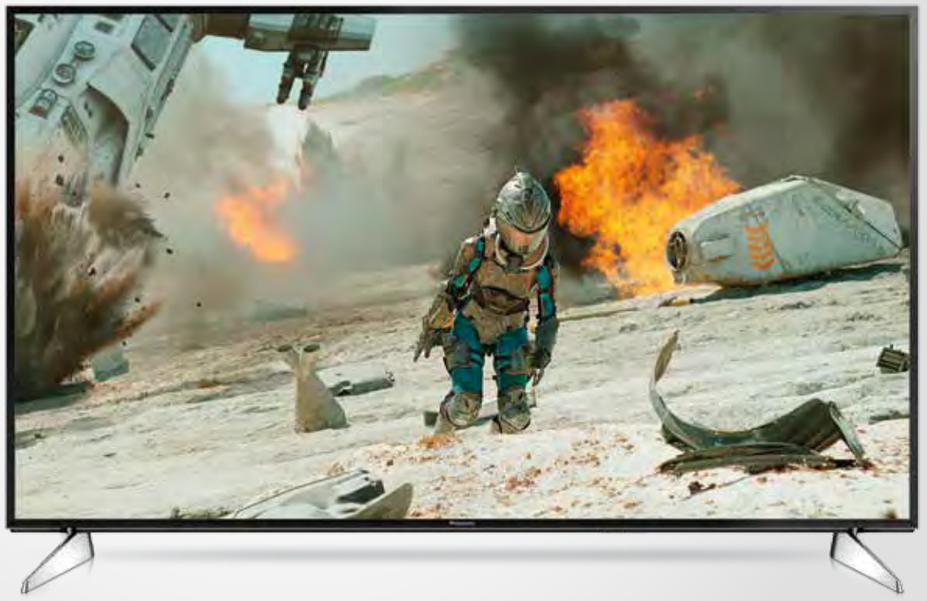
YOUR TV, YOUR STYLE

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

TENTATIVE ENERGY EFFICIENCY CLASS A

- 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"

4K HDR · 1300Hz BMR · HDR MULTI-FORMAT SUPPORT · ADVANCED COLOUR PROCESSING 4K · 4K PURE DIRECT · my Home Screen 2.0 · ADAPTIVE BACKLIGHT DIMMING · IN-HOUSE TV STREAMING · SWITCH DESIGN*1

HIGH-DEFINITION HERO

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





ES500 SERIES

High Contrast Images With Extensive Smart Functionality

TENTATIVE ENERGY EFFICIENCY CLASS A

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

FULL HD 1920×1080p



SMART BY STYLE, SMART BY NATURE

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





ES400 SERIES

Full HD Smart Entertainment With Classic Design

TENTATIVE ENERGY EFFICIENCY CLASS A

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

FULL HD 1920×1080p





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

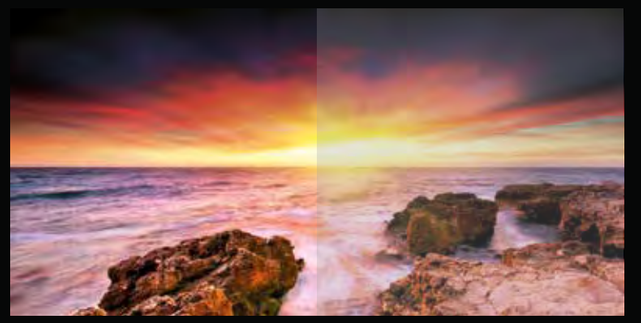
	Series	EZ1000	EZ950	EX780	EX700	EX600	ES500	ES400
RESOLUTION	Technology	4K PRO HDR	4K PRO HDR	4K PRO HDR	4K HDR	4K HDR	FULL HD *1	FULL HD *2
PICTURE & SOUND QUALITY	Motion (Hz)	OLED SUPERB MOTION DRIVE	OLED SUPERB MOTION DRIVE	2400Hz	1600Hz	1300Hz	600Hz	400Hz
	Contrast	ULTIMATE CONTRAST	ULTIMATE CONTRAST	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	OLED	SUPER BRIGHT PANEL	BRIGHT PANEL	BRIGHT PANEL	BRIGHT PANEL *3	BRIGHT PANEL
	Sound	Tuned by Technics	VR-Audio SURROUND+	VR-Audio SURROUND	VR-Audio SURROUND	VR-Audio SURROUND	VR-Audio SURROUND	VR-Audio SURROUND
	Pure Direct	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	4K PURE DIRECT	1080P PURE DIRECT	1080P PURE DIRECT
	Rendering Processor / Engine	STUDIO COLOUR HCX 2	STUDIO COLOUR HCX 2	STUDIO COLOUR HCX 2				
	Local Dimming		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 2K DISPLAY	THX 2K DISPLAY					
	HDR	HDR MULTI-FORMAT SUPPORT	HDR MULTI-FORMAT SUPPORT	HDR MULTI-FORMAT SUPPORT	HDR MULTI-FORMAT SUPPORT	HDR MULTI-FORMAT SUPPORT		
	ISF Calibration	isf	isf					
	Design	Art & Interior	Art & Interior	SWITCH DESIGN *4	SWITCH DESIGN *5	SWITCH DESIGN *5		
ECO	Energy Efficiency Class	TENTATIVE ENERGY EFFICIENCY CLASS B	TENTATIVE ENERGY EFFICIENCY CLASS B	TENTATIVE ENERGY EFFICIENCY CLASS A+ *6	TENTATIVE ENERGY EFFICIENCY CLASS A *7	ENERGY EFFICIENCY CLASS A	ENERGY EFFICIENCY CLASS A	TENTATIVE ENERGY EFFICIENCY CLASS A

	Series	EZ1000	EZ950	EX780	EX700	EX600	ES500	ES400
SMART FEATURES	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 built-in	Wireless LAN built-in	Wireless LAN built-in	Wireless LAN built-in	Wireless LAN built-in	Wireless LAN built-in	Wireless LAN built-in
	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 4K/HD	USB HDD RECORDING 4K/HD	USB HDD RECORDING 4K/HD	USB HDD RECORDING 4K/HD	USB HDD RECORDING 4K/HD	USB HDD RECORDING HD	USB HDD RECORDING HD
	Quattro Tuner	QUATTRO TUNER TRIPLE CONCEPT	QUATTRO TUNER TRIPLE CONCEPT	QUATTRO TUNER TRIPLE CONCEPT				
	IP Home Network	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK	IP HOME NETWORK
EASY OPERATION	Processing	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO	QUAD-CORE PRO		
	My Home Screen 2.0	my Home Screen 2.0	my Home Screen 2.0	my Home Screen 2.0	my Home Screen 2.0	my Home Screen 2.0	my Home Screen	my Home Screen
	Voice Assistant	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE ASSISTANT	VOICE GUIDANCE	
	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					

*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

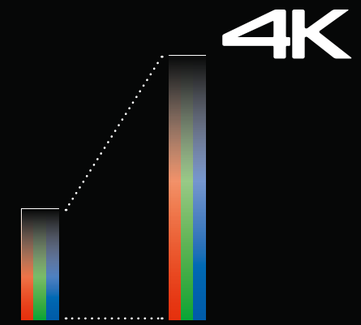


MAKING PIXELS BETTER



HIGH DYNAMIC RANGE — STANDARD DYNAMIC RANGE

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.



SDR (Conventional)
100nit

HDR (Ultra HD Blu-Ray™)
1,000–10,000nit

BLU-RAY™ GOES ULTRA HD

Enter a whole new world of picture and sound quality with Panasonics 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

THX 4K SOURCE
ULTRA HD Blu-ray
ULTRA HD PREMIUM

4K **High Precision Chroma Processor**
4K **Direct Chroma** Upscaling
4K **60p/4:4:4** Output
High Res SOUND
High Clarity Sound Premium
HDMI x2
Wi-Fi Built-in
4K Networking



UB700

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

DMP-UB700 ●



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

4K PRO HDR
HCX
4K **Direct Chroma** Upscaling
High Res SOUND
High Clarity Sound Premium
Wi-Fi Built-in
INTERNET APPS
Web Browser



UB400

Ultra HD Blu-ray™ Player with Precise Chroma Processing

DMP-UB400 ●



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

4K PRO HDR
HCX
4K **Direct Chroma** Upscaling
High Res SOUND
High Clarity Sound Premium
Wi-Fi Built-in
INTERNET APPS
Web Browser



UB300/310

Ultra HD Blu-ray™ Player for Extraordinary Picture Quality

DMP-UB300 ●
DMP-UB310 ●



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.

4K PRO HDR
HCX
4K **Direct Chroma** Upscaling
High Res SOUND
Wi-Fi Built-in
INTERNET APPS
Web Browser
4K Networking



HOME CINEMA HEROES



BDT570

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

DMP-BDT570 ●



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

4K · High Clarity Sound Premium · Blu-ray 3D · HDMI x2 · Wi-Fi Built-in · INTERNET APPS · dlna · 4K Networking

Direct Chroma Upscaling



BDT381

BDT380

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

4K ULTRA HD UPSCALING · Blu-ray 3D · 2D 3D CONVERSION · Wi-Fi Built-in · INTERNET APPS · dlna · Web Browser · 4K Networking



BDT281

BDT280

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 DNLA 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

4K ULTRA HD UPSCALING · Blu-ray 3D · 2D 3D CONVERSION · Wi-Fi Built-in · INTERNET APPS · dlna · Web Browser · 4K Networking



MOVIE MAESTROS



BDT180

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 DNLA 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

4K Ultra HD Upscaling · Blu-ray 3D · 2D 3D Conversion · Internet Apps · dlna Certified · USB · MKV Playback · 4K Networking



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

Blu-ray 3D · Internet Apps · USB · MKV Playback · FLAC



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

Internet Apps · USB · MKV Playback · FLAC



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

	4K Ultra HD Upscaling	TV>IP Server	TV Anywhere	Wi-Fi Built-in	2xCI+	High Res Sound™
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.



PWT550

HDD RECORDER

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

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


PWT550

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

	4K Ultra HD Upscaling	Remote Recording	Wi-Fi Built-in	Internet Apps	dlna certified	BD DVD CD Playback
DMR-PWT655*2	•	•	•	•	•	•
DMR-PWT535*1		•	•	•	•	•
DMR-PWT550*2	•	•	•	•	•	•

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



HWT250

HDD RECORDER

With 1TB or 500GB Storage Capacity

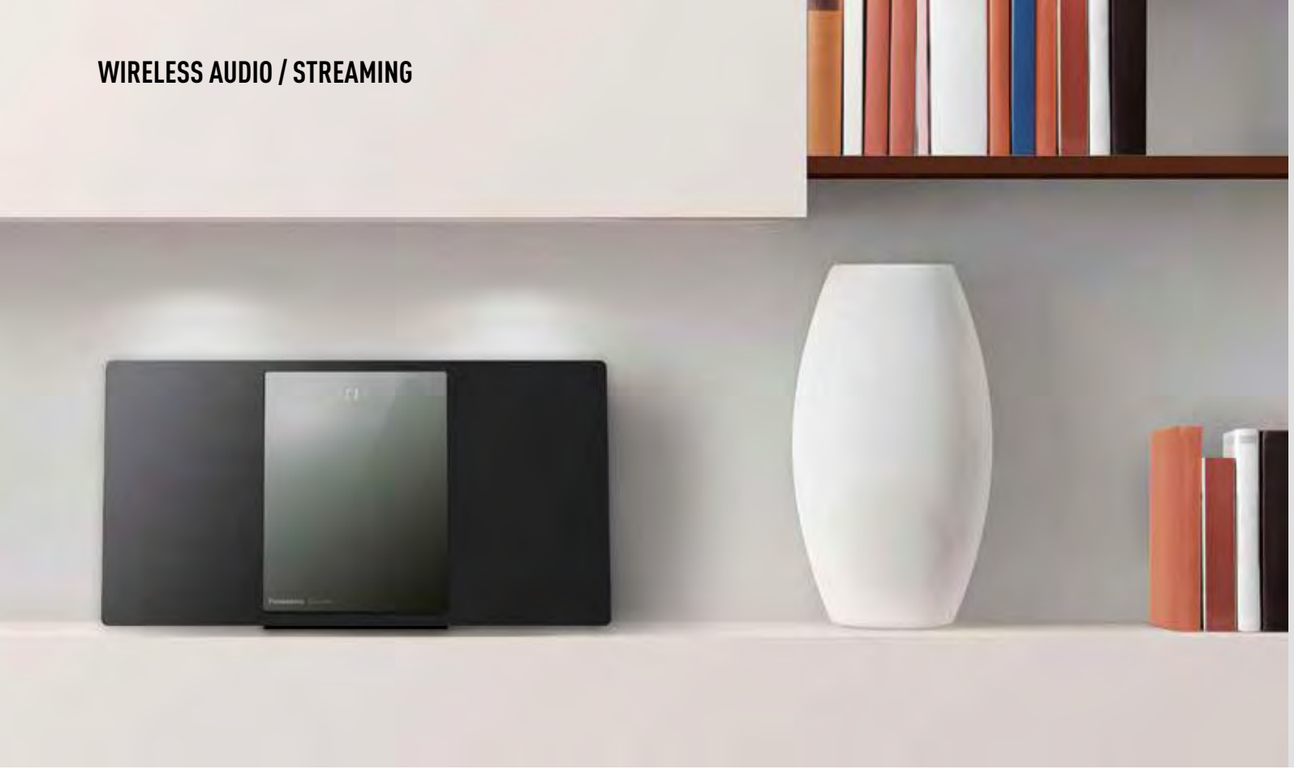
DMR-HWT250*1, DVB-T, 1TB ●
DMR-HWT150*1, DVB-T, 500GB ●
DMR-HWT130*1, DVB-T, 500GB ●


HWT250

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

	Remote Recording	Wi-Fi Built-in	Internet Apps	dlna certified	MKV Playback
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.

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.

RADIO (FM/DAB+) RE-STREAMING

BLUETOOTH® RE-STREAMING

TV SOUND RE-STREAMING

CD RE-STREAMING



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.



ALL05





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 restream your favourite discs to other wireless Panasonic speakers all around your home.



HC1020



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.



ALL70T



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.



ALL2



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.



ALL7CD



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 perfect for every room in your home.

Qualcomm® AllPlay™ · Wi Fi CERTIFIED · Bluetooth® · CD · FM · DAB+

MAKING MUSIC STREAMING SIMPLE

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

ALL MUSIC, NO HASSLE

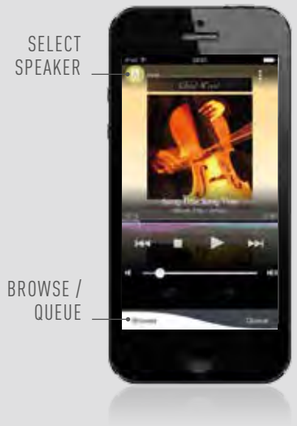
Panasonic has made setting up and using ALL Series products as intuitive as possible thanks to its latest Music Streaming App. Adding new ALL products to your network, for instance, involves little more than just selecting them from the app. The latest app also features an ultra-intutive layout and gives 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 TuneIn. 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.

Music Streaming services supported by Panasonic:



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

Lincs D-Amp™ 3rd generation



MUSICAL STYLE

ALL
Connected Audio

High Res SOUND



ALL7CD

ALLPlay™ Wireless Speaker with Convenience and Style

SC-ALL7CD ● ●



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

Qualcomm AllPlay™ · Wi Fi CERTIFIED · Panasonic · Bluetooth · DAB+ · USB · FLAC

ALL
Connected Audio



ALL5CD

ALLPlay™ Wireless Compact System with CD Player

SC-ALL5CD ●



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.

Qualcomm AllPlay™ · Wi Fi CERTIFIED · Panasonic · Bluetooth · NFC · USB · FLAC

ALL
Connected Audio



ALL1C

ALLPlay™ Wireless Connector for Existing Speakers

SH-ALL1C ●



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

Qualcomm AllPlay™ · Wi Fi CERTIFIED · Panasonic · FLAC

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
*Other ALL Series speakers are optional and not included.

3rd generation

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
*Other ALL Series speakers are optional and not included.

3rd generation



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
*Other ALL Series speakers are optional and not included.



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.



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



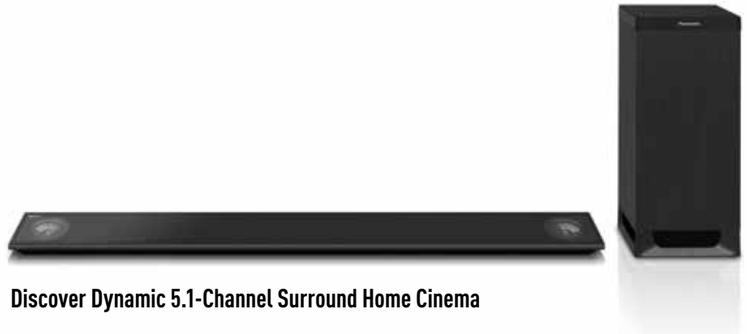
HTE80

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

Discover Dynamic 5.1-Channel Surround Home Cinema

SC-HTB885 ●



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

VIERA Link · HDMI · 4K PASS THROUGH · Bluetooth · NFC · Wi Fi CERTIFIED



HTB688

Enjoy Impressive 3.1-Channel Surround and Convenience

SC-HTB688 ●



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)



Bluetooth · HDMI · Wall Mountable Speaker · 3.1ch System · Wireless Subwoofer · Digital Audio In



HTB488

Powerful 2.1-Channel Sound for Your Home Cinema

SC-HTB488 ●



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

Bluetooth · HDMI · Wall Mountable Speaker · 2.1ch System · Wireless Subwoofer · Digital Audio In



HTB18

High-Quality 2.1-Channel Sound in a Slim Design

SC-HTB18 ●



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 for an attractive living room apprearance
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

Bluetooth · Panasonic · Digital Audio In · Wall Mountable Speaker



HTB8

Small in Size with Big 2-Channel Sound

SC-HTB8 ●



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

Bluetooth · Panasonic · Digital Audio In · Wall Mountable Speaker



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.

Bluetooth · USB · Lincs D-Amp™ 3rd generation · DAB+ · FLAC 192 Hz/24 bit · Wi Fi CERTIFIED · R·D·S

PMX80



Hi-Fi Music System with High-Res Music Playback

SC-PMX80



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.

Bluetooth · USB · Lincs D-Amp™ 3rd generation · DAB+ · FLAC 192 Hz/24 bit

PM600



Hi-Fi Music System Delivers Impressive Sound

SC-PM600



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

Bluetooth · Panasonic · USB · R·D·S · MP3

PM250



Hi-Fi Music System Essential for the Home

SC-PM250



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.

Bluetooth · Panasonic · USB · DAB+ · R·D·S · MP3



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

Panasonic · Bluetooth · USB · DAB+ · MP3 · RDS · Lincs D-Amp™ 3rd generation



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

Panasonic · Bluetooth · USB · DAB+ · MP3 · RDS · Lincs D-Amp™ 3rd generation



HC400

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.

Bluetooth · USB · DAB+* · Lincs D-Amp™ 3rd generation · FM · CD · Wall Mountable



HC295

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. / *[1]SC-HC195 without AUX input.

Panasonic · Bluetooth · NFC · USB · MP3 · RDS



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

Bluetooth · DAB+ · FM · Splash Proof



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 – blacklight LCD for lighting conditions

RDS · DAB+ · FM



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.

Bluetooth | D.BASS BEAT | DJ JukeBox | USB | DAB+* | MAX Panasonic

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

Elegant Urban Audio System for Ultimate Party Fun

SC-UA7 ●



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

Bluetooth | NFC | D.BASS BEAT | KARAOKE JukeBox | Bluetooth® Recording | Double USB | MAX Panasonic



UX102

UX100/102

Compact High-Power Music System

SC-UX100 ●
SC-UX102 ●



UX100

Oustanding 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.

Bluetooth | D.BASS BEAT | DJ JukeBox | R·D·S | DAB+* | MAX Panasonic

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.

Bluetooth | NFC | USB x2 | MP3 | D.BASS BEAT | DJ JukeBox | DJ Sampler

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

Bluetooth | USB x2 | MP3 | D.BASS BEAT | Multi Color Illumination | DJ JukeBox





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

Bluetooth | NFC | Double USB | D.BASS BEAT | Multi Color Illumination | DJ JukeBox | MAX Panasonic



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

Bluetooth | D.BASS BEAT | DJ JukeBox

SPORTS WINGS™



BTS50

Iconic Sports Earphones in Comfortable, Stylish Design

RP-BTS50 ● ○

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

Bluetooth · IPX5 · aptX LOW LATENCY CSR · Carrying Case · Quick Charge · BLUE EDGE LED



BTS30

Fashionable and Comfortable Sports Earphones

RP-BTS30 ● ○ ● ●

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

Bluetooth · IPX4 · Carrying Pouch · Quick Charge



BTS10

Sport Bluetooth® Earphones with Secure Fit

RP-BTS10 ● ○ ● ●

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

Bluetooth · IPX2 · Quick Charge



HS34

Essential Sports Earphones for Sound on the Run

RP-HS34 ● ○ ● ● ● ●

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.

IPX2



PREMIUM SOUND

High Res SOUND



HD10

Premium Headphones Offering Full Listening Pleasure

RP-HD10 ●

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

High Res SOUND · 3D Ear Pad · Detachable Cord · 50 MLF · OFC Cord



HD6M

Experience Genuine High-Res Audio for Hours

RP-HD6M ●

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

High Res SOUND · 40 · OFC Cord



HDE10

Earphones for Hi-Fi Lovers with Sound-Enhancing Tech

RP-HDE10 ◐

Expansive sound – get subtle details with 4Hz–50kHz frequency range, Dual Axial Drive and 11.5mm driver unit
Ingenious 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

High Res SOUND · Detachable Cord · Carrying Case · OFC Cord · Dual Axial Drive



HDE5M

Premium High-Res in Full Aluminium Style

RP-HDE5M ◐

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

High Res SOUND · Carrying Case · Axial Design · OFC Cord



HDE3M

Premium Earphones with High-Res Experience

RP-HDE3M ●

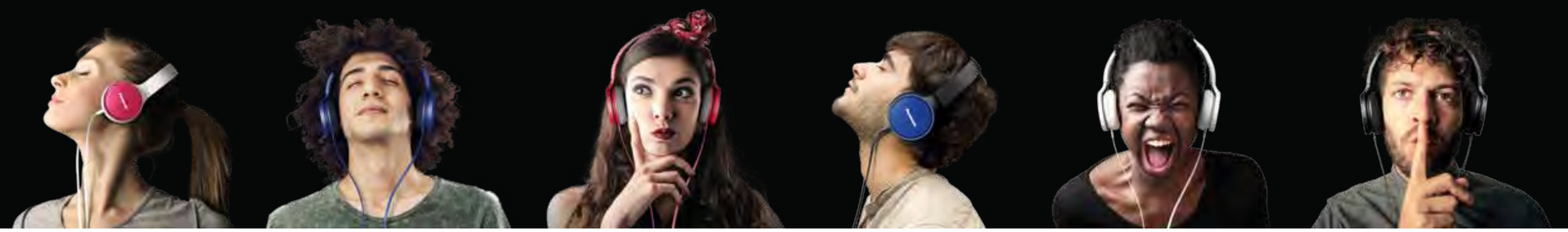
Premium sound – handles frequencies from 5Hz to 40kHz with extra control magnet
Ease of use – attach to any device with the long 1.2m cable and microphone
Stylish design – aluminium compact body parts and stylish design

High Res SOUND · Carrying Pouch · Axial Design



ENTRY

YOUR COLOUR, YOUR SOUND, YOUR STYLE



BTD5

RP-BTD5 ●

Cutting-Edge Bluetooth® Stereo Headphones

Powerful sound – premium 40mm Neodymium driver units for dynamic bass
Wireless freedom – enjoy music anywhere thanks to Bluetooth® with NFC technology
Easy listening – One-Touch Sync and high-capacity Lithium-ion battery for 40 hours of playback

Bluetooth | NFC | 40 | Mic



HF400B

RP-HF400B ●

Powerful Bluetooth® Sound

Clear sound – enjoy crisp bass with 10kHz to 23kHz frequency range and 30mm Neodymium driver unit
Ingenious design – flat-folding lightweight design for easy storage on the go
Portability – enjoy music anywhere thanks to Bluetooth® function and 20 hours of battery life

Bluetooth | 30 | Mic



HF500M

RP-HF500M ● ○

Powerful, Clear Sound

Quality sound – get clear sound thanks to a 40mm driver unit and Neodymium Magnet
Portability – extremely lightwight with a mic and switch for mobile call control
Ingenious design – Compact & flat foldable ear cup provides excellent portability

40 | | Mic



HF300M*

RP-HF300M ● ○ ● ●

Get Powerful Sound that Fits Your Style

Powerful clear sound – 30mm driver unit produces clear sound and powerful bass
Ingenious design – Compact & Flat Foldable ear cup provides excellent portability
Fits your personal taste – with on-ear colour variation and simple

*Also available: RP-HF300 without mic.

30 | | Mic



HF100M*

RP-HF100M ● ○ ● ●

Get Powerful Sound that Fits Your Style

Quality sound – enjoy clear sound thanks to a 30mm driver unit and Neodymium Magnet
Portability – extremely lightwight with a mic and switch for mobile call control
Ingenious design – Compact & flat foldable ear cup provides excellent portability

*Also available: RP-HF100 without mic.

30 | | Mic



NJ300B

RP-NJ300B ● ○ ●

Small and Light for Greater Comfort

Clear bass and vocal – enjoy clear sound with the 9mm driver unit
Snug fit – minimise background noise and maximize sound quality with Ergo Fit design
Portability – lightweight design, Bluetooth® functionality, and a quick-charge 4 hours 20 min battery

Bluetooth | Mic | Quick Charge | ERGO FIT



HJX6M

RP-HJX6M ●

Headset for Big Music from a Small Package

Perfect for mobiles – enjoy music and take calls with the easy in-line mic and switch for call control
Rich bass – with natural treble thanks to Axial design, Dual Magnets and 12mm driver unit
Comfortable fit – the airtight structure blocks external sound for enhanced musical enjoyment

Mic | Carrying Pouch | Extra Control Magnets



TCM360

RP-TCM360 ● ○ ●

Pure Sound in a Round Edge Design

Pure sound – handles 6Hz to 24kHz with a 9mm driver unit so you can hear even the finest details
Ingenious design – stylish design with a tangle free cord for greater comfort
Portability – secure and comfortable fit with microphone and remote control

Mic | ERGO FIT



TCM105

RP-TCM105 ● ○ ● ●

Flexible Headset Reproducing Clear Smartphone Sound

Perfect for mobiles – enjoy your music and take calls with the easy in-line mic and remote control
High-quality bass – get clear sound with the 9mm driver unit
Comfortable wearing – listen with pleasure for hours thanks to the canal-type ear pads

Mic



TCM50

RP-TCM50 ● ○

Smart-Design Headset for All Your Tunes and Calls

Perfect for mobiles – enjoy your music and take calls with the easy in-line mic and remote control
Quality sound – handles frequencies from 10Hz to 25kHz for virtually any music genre
Deep bass – powerful sound with the 14.8mm driver unit and unit cap delivering even deeper bass

Mic



HJE125

RP-HJE125 ● ○ ● ● ● ● ● ● ●

Full Earphone Sound to Fit Any Colourful Style

Quality sound – handles frequencies from 10Hz to 24kHz with 9mm Neodymium driver unit
Clear treble, rich bass – fully enjoy your beats thanks to the high sound pressure level of 97dB
Snug fit – minimise background noise and maximise sound quality with ERGOFIT design



HV41

RP-HV41 ● ○ ● ● ● ● ● ●

Fun Elastic Earphones with Easy Clip Function

Quality sound – handles frequencies from 10Hz to 25kHz for virtually any music genre
High performing – immerse yourself in the sound thanks to the extreme sound pressure level of 105dB
Ease of use – attach to any device with the long 1.2m cable



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	BST950 BST850/55 BST750/55 BST650	BCT950 BCT850/55 BCT750/55 BCT650	BWT850 BWT745 BWT640
HIGH-QUALITY PICTURE & SOUND	HCX Processor	●	●	●	●							
	4K Upscaling	●	●	●	●	●	●			●*4	●*4	●*7
	4K Networking	●	●	●	●	4K JPEG	4K JPEG			●*1	●*1	
	2D / 3D Mode	●				●	●	●		●	●	●
	High Res Sound	●	●	●	●	●				●*5	●*5	
	THX® 4K Source	●										
EASY OPERATION	VIERA Link / HDMI CEC	●	●	●	●	●	HDMI CEC	HDMI CEC	HDMI CEC	●	●	●
	Remote Recording									●	●	●
	Keyword Recording									●*12	●*10	
	TV Anywhere									●*4	●*4	●*7
SMART NETWORKING	Internet Apps	●	●	●	●	●	●	●	●	●	●	●
	DLNA™	●	●	●	●	●	●	●	●	●	●	●
	USB	USB x2	USB x2	USB x2	USB x2	USB	USB	USB	USB	USB x2	USB x2	USB x2
	HDMI™	x2	x2	x2	x2	x2	x2	x2	x2	●*1	●*1	●
	Wi-Fi	Wi-Fi Built-in	Wi-Fi Built-in	Wi-Fi Built-in	Wi-Fi Built-in	Wi-Fi Built-in	Wi-Fi Built-in			Wi-Fi Built-in	Wi-Fi Built-in	Wi-Fi Built-in*8
	SD Slot	●	●	●	●					●	●	●
	Receiver									DVB S	DVB C	DVB T
	Triple HD Tuner									●*1	●*1	
	Twin HD Tuner									●*3	●*3	TWIN HD TUNER
	TV > IP									●*5	●*5	
	Common Interface Plus									2×CI+ *6	2×CI+ *6	

*1 For BCT950, BST950 / *2 For BCT850/55, BST850/55 / *3 For BCT750/55, BST750/55 / *4 Not for BCT650, BST650 / *5 For BCT950, BST950, BCT850/55, BST850/55 / *6 For BCT950, BST950, BCT850/55, BST850/55, BCT750/55, BST750/55 / *7 For BWT850 / *8 BWT640: Wi-Fi ready

ALL Connected Audio

		HC1020	ALL7CD	ALL5CD	ALL1C	ALL9	ALL6	ALL05	ALL2	ALL70T	PMX150 PMX152
GENERAL	Qualcomm® AllPlay™	●	●	●	●	●	●	●	●	●	●
	Panasonic Streaming App	●	●	●	●	●	●	●	●	●	●
	Total Output Power	40W	40W	40W		80W	40W	20W	40W	350W	120W
	Special Features	Wall Mountable		Wall Mountable				●			
SOUND FEATURES	Digital Amp Solution (3rd generation)	Lincs D-Amp™	Lincs D-Amp™	Lincs D-Amp™		Lincs D-Amp™	Lincs D-Amp™			Lincs D-Amp™	Lincs D-Amp™
	Bass System		XBS Master	XBS Master		XBS Master	XBS Master				XBS Master
	FLAC	●	●	●	●	●	●	●	●	●	●
SMART NETWORKING	Wi-Fi Certified	●	●	●	●	●	●	●	●	●	●
	DLNA™	●	●	●	●	●	●	●	●	●	●
	Bluetooth®	●	●	●		●	●	●	●	●	●
	NFC			●						●	
	USB	●	●	●	USB DAC						USB DAC
STREAMING PARTNERS	Spotify®	●	●	●	●	●	●	●	●	●	●
	napster®	●	●	●	●	●	●	●	●	●	●
	Qualcomm® AllPlay™ Radio tunein	●	●	●	●	●	●	●	●	●	●
	soma fm	●	●	●	●	●	●	●	●	●	●
	doubleTwist™	●	●	●	●	●	●	●	●	●	●
TUNER	RDS	●	●	●							●
	DAB Plus	●	●	●							DAB+ *1
	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 HCX² 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 HCX² *1 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© 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 HCX²: The new Studio Colour HCX² *1 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*² 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, jutter-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.

*1 HCX stands for Hollywood Cinema Experience / *2 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*⁴ mobile devices to the TV.

In-house TV Streaming Server & Client*³: 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.

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.

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*³: 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.

*3 Not in the UK / *4 Ver. 4.2 and above and Miracast™ certified

LOGO & ICON GLOSSARY: VIDEO / AUDIO

TECHNOLOGY

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

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™: 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 deapth, lustre and texture.

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.

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.

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: 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.

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

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: 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®: 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: 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: This new technology using SAT>IP can flexibly distribute High and Standard Definition TV programmes throughout your home. SAT>IP allows satellite TV distri-bution 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™ (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.

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

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: 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® 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: 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+: 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 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: In addition to the usual right and left front channels and the sub-woofer channel, the systems with 3.1 additionally incorporate a center speaker for even better clarity for voices in the movies.

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

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™: 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: 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.

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

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.

SPECIAL FEATURES: URBAN AUDIO / HIGH POWER AUDIO SYSTEMS

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.

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

AIRQUAKE 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.

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

SPECIAL FEATURES: HEADPHONES

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

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

TECHNICAL SPECIFICATIONS

TENTATIVE

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"
PICTURE QUALITY	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
Display	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
	Muti 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[2] Processor	•	•	•	–	–	–	–
	Local Dimming / Adaptive Backlight Dimming	– / –	– / –	• / –	• / –	– / •	– / •	– / •
	THX Certified Display*[1]	•	•	–	–	–	–	–
	4K Pure Direct	•	•	•	•	•	–	–
	4K HDR Game Mode	•	•	•	•	•	–	–
	isf Mode	•	•	–	–	–	–	–
	3D LUT Setting	•	–	–	–	–	–	–
	3D	–	–	• (Active)	–	–	–	–
SOUND QUALITY	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
SMART FEATURES	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*[12]	27 Languages*[12]	27 Languages*[12]	27 Languages*[12]	27 Languages*[12]	27 Languages*[12]	27 Languages*[12]
	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*[2]	•	•	•	•	•	–	–
	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*[3]	•	•	•	•	•	•	•
	Easy Mirroring	•	•	•	•	•	•	•
	DLNA*[4]	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)	• (DTCP-IP / DMP / DMR / DMS)
	Bluetooth*[5]	• (Keyboard / Mouse)	• (Keyboard / Mouse)	• (Keyboard / Mouse)	–	–	–	–
	IP Home Control (Crestron / Control4)	•	•	•	•	•	•	•
	Media Player	• (2.0)*[6]	• (2.0)*[6]	• (2.0)*[6]	• (2.0)*[6]	• (2.0)*[6]	•	•
	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 / VR / 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	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	•	•	•	•	•	•	•
ENERGY DATA	Suppliers Trademark	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
	Model ID	TX-65EZ1000E	TX-65EZ950E, TX-55EZ950E	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" / 65": 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*[7]	TBD	TBD	TBD	TBD	65": 130W / 55": 107W / 49": 85W / 40": 63W	TBD	TBD
	Annual Energy Consumption*[8]	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)	•	•	•	•	•	•	•
DESIGN	Design Concept	Art & Interior	Art & Interior	75": Art & Interior, 65"/ 58"/ 50": Art & Interior Switch Design	Art & Interior Switch Design	Art & Interior Switch Design	–	–
TERMINAL	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*[9]	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	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)
GENERAL	Included Accessory*[10]	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, 40": 895 x 514 x 40mm	65": 1460 x 844 x 78mm, 55": 1240 x 722 x 78mm, 49": 1102 x 644 x 77mm, 40": 899 x 518 x 65mm	49": 1106 x 644 x 82mm 40": 902 x 521 x 90mm, 32": 733 x 437 x 71mm 24": 562 x 344 x 62mm	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)*[11]	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 1103 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"/ 55" 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"/ 55" 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, 40": 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

*[1] 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. / *[2] Due to network conditions or certain broadcaster restrictions, this function may not be available. / *[3] 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. / *[4] DLNA, the DLNA Logo and DLNA CERTIFIED are trademarks, service marks, or certification marks of the Digital Living Network Alliance. *[5] 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. / *[6] To playback HDR, a HDR source is required (H.264 or H.265(ST2084 or HLG format)). / *[7] Based on IEC 62087 Ed.2 measurement method. / *[8] 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. / *[9] 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. / *[10] Not all the accessories are listed here. / *[11] Dimension with recommended pedestal style. / *[12] 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.

TECHNICAL SPECIFICATIONS

TENTATIVE

ULTRA HD BLU-RAY™ / DVD PLAYER

			UB900	UB700	UB400	UB310/300	BDT570	BDT380/81	BDT280/81 BDT180/81	BDT167/68	BD84
			Ultra HD Blu-ray™ Player	Ultra HD Blu-ray™ Player	Ultra HD Blu-ray™ Player	Ultra HD Blu-ray™ Player	Blu-ray™ Player	Blu-ray™ Player	Blu-ray™ Player	Blu-ray™ Player	Blu-ray™ Player
PLAYABLE DISCS	BD-ROM	Ultra HD Blu-ray / FULL HD 3D / BD-Video	•	•	•	•	• (FULL HD 3D / BD-Video only)	• (FULL HD 3D / BD-Video only)	• (FULL HD 3D / BD-Video only)	• (FULL HD 3D / BD-Video only)	• (BD-Video only)
	BD-RE / BD-RE DL (Ver.3)	BDAV / AVCHD / AVCHD 3D / JPEG / MPO	•	•	•	•	•	•	•	•	• (BDAV / AVCHD / JPEG only)
	BD-R (Ver.1.3) / BD-R DL (Ver.2)	BDAV / AVCHD / AVCHD 3D / MKV	•	•	•	•	•	•	•	•	• (BDAV / AVCHD / MKV only)
	DVD	DVD-Video	•	•	•	•	•	•	•	•	•
	DVD-R*1 / DVD-R DL*1 / DVD-RW*1	DVD-Video / DVD Video Recording	•	•	•	•	•	•	•	•	•
		AVCHD / MKV	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	/ •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)	• / •* (*DVD-R/ DVD-R DL)
		FLAC / WAV / ALAC / DSD / WMA / AAC / MP3	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)
		JPEG / MPO	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL)	• (DVD-R/ DVD-R DL) (JPEG only)
	+R*1 / +R DL*1 / +RW*1	Video / AVCHD	•	•	•	•	•	•	•	•	•
	CD, CD-R/ -RW	CD-DA / DTS-CD	•	•	•	•	•	•	•	•	•
		MKV / JPEG / MPO	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)*14
		FLAC / WAV / ALAC / WMA / AAC / MP3	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)	• (CD-R/ -RW)
AUDIO SYSTEM	Dolby Digital / TrueHD (Decode a. Bitstream Output*2)		•	•	•	•	•	• Decode 5.1ch	• Decode 5.1ch	• Decode 5.1ch	• Decode 5.1ch
	Dolby Digital Plus (Decode a. Bitstream Output*2)		•	•	•	•	•	• Decode 5.1ch	• Decode 5.1ch	• Decode 5.1ch	• Decode 5.1ch
	DTS-HD Master Audio / DTS-HD High Res. Audio (Decode a. Bitstream Output*2)		•	•	•	•	•	•	•	•	•
	FLAC		• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (5.1ch)
	WAV		• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)	• 192kHz/32bit (2ch)
	ALAC		• 96kHz/32bit (Max. 7.1ch), 176.4 / 192kHz/32bit (Max. 5.1ch)	• 96kHz/32bit (Max. 7.1ch), 176.4 / 192kHz/32bit (Max. 5.1ch)	• 96kHz/32bit (Max. 7.1ch), 176.4 / 192kHz/32bit (Max. 5.1ch)	• 96kHz/32bit (Max. 7.1ch), 176.4 / 192kHz/32bit (Max. 5.1ch)	• 192kHz/24bit (5.1ch)	• 192kHz/24bit (2ch)	• 192kHz/24bit (2ch)	• 192kHz/24bit (2ch)	• 192kHz/24bit (2ch)
	DSD (DFF, DSF)		• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)	• 2.8MHz (2ch / 5.1ch) 5.6MHz (2ch only)	• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)	• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)	• 5.6MHz /1bit (2ch)	• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)	• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)	• 2.8MHz (2ch/ 5.1ch), 5.6MHz (2ch only)	• 2.8MHz (2ch / 5.1ch), 5.6MHz (2ch only)
SD MEMORY CARD	Slot (Compatible Media)		• (SD / SDHC / SDXC)	• (SD / SDHC / SDXC)	–	–	• (SD / SDHC / SDXC)	–	–	–	–
	Playback: JPEG / MPO / AVCHD / AVCHD 3D / MP4		•	•	–	–	•	–	–	–	–
USB	Slot		• (1)	• (1)	• (2)	• (2)	• (1)	• (2)	• (1)	• (1)	• (1)
		Front	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)	USB 2.0 High Speed	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)	1 (USB 2.0 High Speed)
		Rear	–	–	1 (USB 3.0 Super Speed)	1 (USB 3.0 Super Speed)	–	1 (USB 2.0 High Speed)	–	–	–
	Playback	FLAC / WAV / ALAC / DSD / WMA / AAC / MP3	•	•	•	•	•	•	•	•	•
		MKV / MP4 (H.264 / HEVC), TS (MPEG-2 / H.264 / HEVC)	•	•	•	•	•	–	–	–	–
		MKV / MP4 / MPEG-2 / AVCHD / AVCHD 3D / JPEG / MPO	•	•	•	•	• MKV / MP4 / MPEG-2 / JPEG / MPO only	•	•	•	• MKV / MP4 / MPEG-2/ AVCHD / JPEG only
HIGH-QUALITY PICTURE	HCX Processor for Ultra HD Blu-ray / HDR		• / •	• / •	• / •	• / •	– / –	– / –	– / –	– / –	– / –
	4K Upscaling*3*4	60p/50p / 4:4:4 (HDMI 2.0)	•	•	•	•	• (60p/50p / 4:2:4)	•	•	–	–
		24p / 25p	•	•	•	•	•	•	•	–	–
	4K Direct Chroma Upscaling*3	• (24p / 25p)	• (24p / 25p)	• (24p / 25p)	• (24p / 25p)	• (24p / 25p)	–	–	–	–	–
	4K Networking (Playback 4K Video*5 / 4K JPEG*3)	•	•	•	•	–	–	–	–	–	–
	4K NETFLIX with HDR, 4K Amazon (tentative)	•	•	•	•	–	–	–	–	–	–
	HLG (Hybrid Log Gammma)	•	•	•	•	–	–	–	–	–	–
	Picture Type Presets	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live	Normal / Cinema / Fine Cinema / Retro Cinema / Cartoon / Live
	Block / Random / Mosquito Noise Reduction	•	•	•	•	•	•	•	•	•	•
	Video on Demand in HD Quality	•	•	•	•	•	•	•	•	•	•
	2D-3D Conversion / 3D Effect Controller	–	–	–	–	•	•	•	– / •	– / •	
	Ultra HD Premium	•	•	•	•	–	–	–	–	–	
	Deep Colour / x.v.Colour*6	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	
HIGH-QUALITY SOUND	Twin HDMI	•	•	•	–	•	–	–	–	–	
	Pure Audio on HDMI (HDMI Low Clock Jitter Process)	•	•	•	•	–	–	–	–	–	
	High-Quality Network Audio Playback (DLNA)*13	•	•	•	•	•	•	•	•	–	
	High Clarity Sound Premium	•	•	•	–	–	–	–	–	–	
	Digital Tube Sound / Surround Re-Master*7	• 192kHz/96kHz (up to 7.1ch)	• 192kHz/96kHz (up to 7.1ch)	• Up to 192kHz/ 32 bit	–	• 192kHz/96kHz (up to 7.1ch)	–	–	–	–	
	Audio D/A Converter	• 192kHz/32bit (2ch+7.1ch)	–	–	–	• 192kHz/32bit (2ch + 7.1ch)	–	–	–	–	
SMART FEATURES	Unit Display (Dot Matrix) / Remote Control	• / • (w/ Light)	• / • (Simple)	– / • (Simple)	– / • (Simple)	• / • (Simple)	– / • (Simple)	– / • (Simple)	– / • (Simple)	– / • (Simple)	
	Subtitle Position / Brightness Adjustment	•	•	•	•	•	•	•	•	•	
	VIERA Link (HDAVI Control 5)	•	•	•	•	•	•	•	•	•	
	Mirroring with Smartphone / Tablet*8	•	•	•	-	•	•	• (BDT280/81 only)	–	-	
	Internet Apps*1 / Web Browser	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• (Simple) / –	• (Simple) / –	
	Wireless LAN System (Built-in)	•	•	•	• (UB310 only)	•	•	• (BDT280/81 only)	–	–	
	DLNA (Client & Renderer)	•	•	•	•	•	•	•	–	–	
	External HDD Playback*10 / BD-Live™*11	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	
	Network Drive Access	•	•	•	•	•	•	•	–	–	
TERMINAL	HDMI Output / Video Output	• (2) / –	• (2) / –	• (2) / –	• (1) / –	• (2) / –	• (1) / –	• (1) / –	• (1) / –	• (1) / –	
	Optical Output / Coaxial Output	• / •	• / –	• / –	– / –	• / •	• / –	– / –	– / –	– / –	
	Analogue Audio LR Output / 7.1ch Output	• / •	– / –	– / –	– / –	• / •	– / –	– / –	– / –	– / –	
	LAN (Ethernet) Terminal	• Ultra HD Blu-ray, DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• Ultra HD Blu-ray, DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• Ultra HD Blu-ray, DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• Ultra HD Blu-ray, DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• DLNA, BD-Live™*11, Internet Apps*1, Firmware Update	• DLNA, BD-Live™*11, Internet Apps*1, Firmware Update
OTHERS	Video System	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC	
	Power Supply	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	
	Power Consumption — Normal Use	26W	24W	27W	UB310: 27W, UB300: 26W	21W	17W	13W	11W	11W	
	[Quick Start Off] — Standby: Network Standby On	1.0W	1.0W	1.0W	1.0W	1.0W	1.0W	1.0W	1.0W	1.0W	
	[Quick Start Off] — Standby: Network Standby Off	0.2W	0.2W	0.3W	0.3W	0.2W	0.5W	0.5W	0.5W	0.5W	
	HDMI Cable Included	•	–	–	–	–	–	–	–	–	
DIMENSIONS, WEIGHT	Dimensions (W x H x D)*12	435 x 68 x 199mm	430 x 61 x 199mm	320 x 45 x 199mm	320 x 45 x 193mm	446 x 68 x 245mm	415 x 43 x 182mm	312 x 43 x 180mm	245 x 38.5 x 175mm	245 x 38.5 x 175mm	
	Weight	2.4kg	2.3kg	1.5 kg	1.3 kg	2.7kg	1.2kg	1.0kg	0.8kg	0.8kg	

*1 Discs recorded and finalized on recording devices. / *2 HDMI connection required. / *3 For 4K Upscaling playback a TV with same resolution is required. / *4 For 4K/60p video, a high speed HDMI cable supporting 18 Gbps bandwidth is required. / *5 MP4 (4K/25p, 30p) bit rate up to 100Mbps/resolution up to 3840 x 2160. / *6 This function is effective only when reproducing AVCHD data recorded with x.v.Color technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is required. / *7 CD sampling is done at 176.4/88.2 kHz. / *8 Compatible with Android™ devices, Ver. 4.2 and above and Miracast certified. For information on whether the smartphone, etc. supports Miracast, contact the manufacturer of the device. / *9 Requires broadband Internet service. / *10 The external HDD with capacities of 2TB or less in processing NTFS/ FAT32 data is supported. Playback is not possible with some external hard disk drives. / *11 To enjoy content, you will need to insert a SD (1GB or more of free space/ sold separately). Requires broadband Internet service. / *12 Excluding the projecting parts. / *13 (FLAC / WAV / ALAC / DSD /WMA / AAC / MP3) / *14 MKV / JPEG only

Specifications are subject to change without notice. All numbers given here are approximate. / Playability may vary depending on the contents, discs and quality of the recording. For content recorded for your personal use.

BLU-RAY™ RECORDERS

				BST950, BCT950	BST855/50, BCT855/50, BCT84	BST755/50, BCT755/50	BST650, BCT650	BWT850	BWT745	BWT640
HARD DISK CAPACITY	Built-in Hard Disk Drive			2TB	1TB	500GB	500GB	1TB	500GB	250GB
PLAYABLE DISCS	BD-ROM (Ver.2.4)	Full HD 3D / BD-Video		•	•	•	•	•	•	•
	BD-RE / BD-RE DL (Ver.2.1)	AVCHD / AVCHD 3D / JPEG / MPO		•	•	•	•	•	• (JPEG / MPO)	• (JPEG / MPO)
	BD-R (Ver.1.3 / LTH Type Ver.1.3) / BD-R DL (Ver.1.3)	AVCHD / AVCHD 3D / Xvid / MKV		•	•	•	•	•	• (Xvid / MKV)	• (Xvid / MKV)
	DVD, DVD-RAM	MPEG-2 (Video), MPEG-2 (VR) / AVCHD / JPEG / MPO		•	•	•	•	•	•	•
	DVD-R*1 / DVD-R DL*1 / DVD-RW*1	MPEG-2 (Video) / AVCHD / Xvid / MKV / JPEG / MPO		•	•	•	•	•	•	•
		AAC / ALAC / DSD / FLAC / MP3 / WMA / WAV		•	• (BCT84: only MP3)	• (Except ALAC / DSD)	• (Only AAC, MP3)	•	• (Only MP3)	• (Only MP3)
	+R*1 / +R DL*1 / +RW*1*23	+VR / AVCHD / JPEG / MPO		•	•	•	•	•	•	•
	CD / CD-R / -RW	Xvid / MKV / JPEG / MPO		•	•	•	•	•	•	•
		AAC / ALAC / FLAC / MP3 / WMA / WAV / CD-DA		•	• (BCT84: only MP3)	• (Except ALAC)	• (Only AAC, MP3, CD-DA)	• (Only ALAC / FLAC)	• (Only MP3, CD-DA)	• (Only MP3, CD-DA)
RECORDING TIME	Hard Disk Drive	DR Mode	HD (14Mbps)*2	303h	150h	75h	75h	259h	(8Mbps): 129h	(8Mbps): 62h
			SD (8Mbps)*2	847h	422h	211h	211h	518h	(4Mbps): 258h	(4Mbps): 124h
		HG / HX / HE / HL / HM Mode		315h / 471h / 707h / 946h / 1370h	157h / 235h / 353h / 472h / 684h	78h / 117h / 176h / 235h / 341h	78h / 117h / 176h / 235h / 341h	157h / 235h / 353h / 472h / 684h	78h / 117h / 176h / 235h / 341h	38h / 57h / 86h / 115h / 167h
		XP / SP / LP / EP Mode		431h / 863h / 1726h / 3452h	215h / 431h / 862h / 1724h	107h / 215h / 430h / 860h	107h / 215h / 430h / 860h	215h / 43h / 862h / 1724h	107h / 215h / 430h / 860h	52h / 105h / 210h / 420h
	25GB BD-RE / BD-R	DR Mode	HD (14Mbps)*2	3h 30min	3h 30min	3h 30min	3h 30min	6h 30min	(8Mbps)*3: 6h 30min	(8Mbps)*3: 6h 30min
			SD (8Mbps)*2	10h 15min	10h 15min	10h 15min	10h 15min	13h	(4Mbps)*3: 13h	(4Mbps)*3: 13h
		HG / HX / HE / HL / HM Mode		4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m	4h / 6h / 9h / 12h / 17h 30m
		XP / SP / LP / EP Mode		5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h	5h 15m / 10h 30m / 21h / 42h
	50GB BD-RE DL / BD-R DL	DR Mode	HD (14Mbps)*2	7h 30min	7h 30min	7h 30min	7h 30min	13h	(8Mbps)*3: 13h	(8Mbps)*3: 13h
			SD (8Mbps)*2	21h	21h	21h	21h	26h	(4Mbps)*3: 26h	(4Mbps)*3: 26h
		HG / HX / HE / HL / HM Mode		8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h	8h / 12h / 18h / 24h / 35h
		XP / SP / LP / EP Mode		10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h	10h 30m / 21h / 42h / 84h
	4.7GB DVD-RAM / DVD-R / -RW / +R / +RW	XP / SP / LP / EP Mode		1h / 2h / 4h / 8h	1h / 2h / 4h / 8h	1h / 2h / 4h / 8h	1h / 2h / 4h / 8h	1h / 2h / 4h / 8h	1h / 2h / 4h / 8h	1h / 2h / 4h / 8h
	8.5GB DVD-R DL / +R DL	XP / SP / LP / EP Mode		1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m	1h 45m / 3h 35m / 7h 10m / 14h 20m
	9.4GB DVD-RAM	XP / SP / LP / EP Mode		2h / 4h / 8h / 16h	2h / 4h / 8h / 16h	2h / 4h / 8h / 16h	2h / 4h / 8h / 16h	2h / 4h / 8h / 16h	2h / 4h / 8h / 16h	2h / 4h / 8h / 16h
SD MEMORY CARD	Slot (Compatible Media: SD / SDHC / SDXC)			•	•	•	–	•	•	•
	Playback	MP4 / AVCHD / AVCHD 3D / JPEG / MPO		•	•	•	–	•	•	•
	Transfer	to HDD		MP4, AVCHD, AVCHD 3D, JPEG, MPO	MP4, AVCHD, AVCHD 3D, JPEG, MPO **BCT84:** not MP4	MP4, AVCHD, AVCHD 3D, JPEG, MPO	–	MP4, AVCHD, AVCHD 3D, JPEG, 3D Photo	AVCHD, AVCHD 3D Progressive, JPEG, MPO	AVCHD, AVCHD 3D Progressive, JPEG, MPO
		to BD-RE / -R		AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	–	AVCHD, AVCHD 3D, JPEG (BD-RE only), 3D Photo (BD-RE only)	AVCHD, AVCHD 3D Progressive, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D Progressive, JPEG (BD-RE only), MPO (BD-RE only)
		to DVD-RAM / from BD-RE		JPEG, MPO	JPEG, MPO	JPEG, MPO	–	JPEG, 3D Photo	JPEG, MPO	JPEG, MPO
		from HDD / DVD-RAM / DVD-R / CD		MP4 (HDD only), JPEG, MPO	MP4 (HDD only), JPEG, MPO	MP4 (HDD only), JPEG, MPO	–	MP4, JPEG, 3D Photo	JPEG, MPO	JPEG, MPO
USB	Slot			• 2 (front / rear)	• 2 (front / rear)	• 2 (front / rear)	• 1 (front / –)	• 2 (front / rear)	• 2 (front / rear)	• 2 (front / rear)
	Playback: Mass Storage	MPEG-2 / MP4 / Xvid / MKV / JPEG / MPO		•	•	•	•	•	•	•
		AAC / ALAC / DSD / FLAC / MP3 / WMA / WAV		•	•	• (Except ALAC / DSD)	• (Only AAC, MP3)	•		
	Playback: External HDD	Broadcast Stream		•	•	•	•	•	•	•
	Transfer: Mass Storage	to HDD		MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, MPO, AAC, ALAC, DSD, FLAC, MP3, WMA, WAV	MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, MPO, AAC, ALAC, DSD, FLAC, MP3, WMA, WAV **BCT84:** MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, MPO	MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, MPO, AAC, FLAC, MP3, WMA, WAV	MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, MPO, AAC, MP3	MP4, AVCHD, AVCHD 3D, Xvid, MKV, JPEG, 3D Photo, AAC, ALAC, DSD, FLAC, MP3, WMA, WAV	AVCHD, AVCHD 3D Progressive, JPEG, MPO, MP3	AVCHD, AVCHD 3D Progressive, JPEG, MPO, MP3
		to BD-RE / BD-R		AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), MPO (BD-RE only)	AVCHD, AVCHD 3D, JPEG (BD-RE only), 3D Photo (BD-RE only)	AVCHD, AVCHD 3D Progressive, JPEG (BD-RE), MPO (BD-RE)	AVCHD, AVCHD 3D Progressive, JPEG (BD-RE), MPO (BD-RE)
		to DVD-RAM		JPEG, MPO	JPEG, MPO	JPEG, MPO	JPEG, MPO	JPEG, 3D Photo	JPEG, MPO	JPEG, MPO
HIGH-QUALITY PICTURE	4K Direct Chroma Upscaling*3			•	•	•	–	•	–	–
	4K Video Playback (4K 25 / 30 / 23.97 / 29.97p)*4 & Copy (SD or USB <-> HDD)			•	•	•	–	•	–	–
	4K JPEG Playback / 2D–3D Conversion / 3D Effect Controller			• / • / •	• / • / •	• / • / •	– / – / –	• / • / •	– / • / •	– / • / •
HIGH-QUALITY SOUND	Digital Tube Sound / High Clarity Sound / Pure Sound Mode			• / • / •	•*18 / • / •	– / – / •	– / – / –	• / • / •	– / – / •	– / – / •
	192kHz Surround Re-Master*5			•	•	Up tp 96kHz	Up to 96kHz	•	Up to 96kHz	Up to 96kHz
EASY OPERATION	CAS Recording*1 / Keyword Recording / Quick Operation – Direct Navigator*7			• / • / •	• / • / •	• / – / •	– / – / •	• / • / •	– / – / •	– / – / •
	VIERA Link / Pause Live TV & Rewind Live TV			• / •	• / •	• / •	• / •	• / •	• / •	• / •
SMART NETWORKING	TV-IP / TV Anywhere*9*10*11 / Multi-room TV Streaming			• (Server only) / • / •	• (Server only)*19 / •*15 / •	– / – / •	– / – / –	• / • / •	– / – / •	– / – / –
	Remote Recording*9*17 / Remote Viewing*9*10*11			• / •	• / •	• / •	– / –	• / • (Except BBC)	– / –	– / –
	Panasonic Media Center App*12 / Web Browser*13			• / •	• / •	• / •	– / –	• / •	– / •	– / •
	Extra Storage with External HDD / Miracast™*14			• / •	• / •	• / •	• / –	• / •	• / •	• / –
	Compatible with Full HD 3D Camcorder / Image Sharing from LUMIX*16			• / •	• / •	• / •	• / –	• / •	• / •	• / •
	Internet Apps*1 / Wireless LAN System			• / • (Built-in)	• / • (Built-in)	• / • (Built-in)	– / –	• / • (Built-in)	• / • (Built-in)	•/ Capable w. optional adaptor*17
	DLNA	as a Client AV / PC		• / •	• / •	• / •	–	• / •	• / •	• / •
		as a Server		MPEG / AVCHD / JPEG	MPEG / AVCHD / JPEG	MPEG / AVCHD / JPEG	–	MPEG / AVCHD / JPEG	MPEG / AVCHD / JPEG	MPEG / AVCHD / JPEG
TERMINALS	HDMI Output / Video Output / Digital Audio Output			• (2) / – / Coaxial	• / – / Coaxial*20	• / – / Coaxial	• / – / –	• / – / Coaxial	• / – / Coaxial	• / – / –
	Analogue Audio Input / Euro SCART Input			– / •	– / •	– / •	– / –	• / •	– / –	– / –
	LAN (Ethernet) Terminal / Common Interface Slot			• / • (2)	• / • (2)*20*21	• / • (2)	• / •	• / –	• / –	• / –
TUNER	Tuner System			**BST950:** DVB-S / S2, DiSEqC x2, Single Cable x3 **BCT950:** DVB-C & DVB-T x3 (w/o DVB-T2)	**BST855/50:** DVB-S / S2, DiSEqC x2, Single Cable x2 **BCT855/50:** DVB-C & DVB-T x2 (w/o DVB-T2) **BCT84:** DVB-C	**BST755/50:** DVB-S / S2, DiSEqC x2, Single Cable x2 **BCT755/50:** DVB-C & DVB-T x2 (w/o DVB-T2)	**BST650:** DVB-S / S2, DiSEqC x1, Single Cable x1 **BCT650:** DVB-C & DVB-T x1 (w/o DVB-T2)	DVB-T2 x2	DVB-T	DVB-T
	Channel Coverage			**BST950:** – **BCT950:** VHF: 5–12, UHF: 21–69	**BST855/50:** – **BCT855/50:** VHF: 5–12, UHF: 21–69 **BCT84:** CATV: S1–S20 (M1–U10) 7MHz Band,	**BST755/50:** – **BCT755/50:** VHF: 5–12, UHF: 21–69	**BST650:** – **BCT650:** VHF: 5–12, UHF: 21–69	UHF: 21–68	VHF: 5–12, UHF: 21–69	VHF: 5–12, UHF: 21–69
OTHERS	Power Supply			AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use		**BST950:** 56W **BCT950:** 38W	**BST855/50:** 53W **BCT855/50:** 35W, **BCT84:** 36W	**BST755/50:** 50W **BCT755/50:** 32W	**BST650:** 33W **BCT650:** 24W	28W	29W	25W
		Standby (Quick Start Off, RF OUT (Aerial Signal) Off)		**BST950:** 0.2W (Only Quick Start Off) **BCT950:** 0.2W	**BST855/50:** 0.2W (Only Quick Start Off) **BCT855/50, BCT84:** 0.2W	**BST755/50:** 0.2W (Only Quick Start Off) **BCT755/50:** 0.2W	**BST650:** 0.2W (Only Quick Start Off) **BCT650:** 0.2W	0.2W	0.2W	0.2W
DIMENSIONS, WEIGHT	Main Unit	Dimensions (W x H x D)*16, Weight		430 x 70 x 199mm, 3.1kg	430 x 63 x 199mm, 2.8kg	430 x 59 x 199mm, 2.2kg	430 x 59 x 199mm, 2.2kg	430 x 59 x 210mm, 2.4kg	430 x 59 x 238mm, 2.9kg	430 x 59 x 238mm, 2.9kg

*1 Discs recorded and finalised on recording devices. / *2 The bit rates are approximate. Recording time of DR mode may vary depending on bit rate of broadcasting. / *3 For 4K Upscaling playback a TV with same resolution is required. / *4 MP4 (4K/25p,30p) bit rate up to 100Mbps/resolution up to 3,840 x 2,160. / *5 Sampling frequency is set to 88.2kHz at CD playback (BST755/50, BST650; BCT755/50, BCT650) - Sampling frequency is set to 176.4/88.2kHz at CD playback (BST950, BST855/50; BCT950, BCT855/50). / *6 Depending on the programme, it may not be possible to play back/decrypt after recording. / *7 Quick Start needs to be set to ON and Power Save for Network Standby needs to be set to OFF to activate Quick Start. / *8 Smartphone, tablet, in case PC, access URL: https://rec.panasonic.com/pid/home / *9 Requires broadband Internet service. / *10 Remote Viewing and Multi-room TV Streaming are not possible for some pay-per-view programmes. / *11 Access is possible for only one device at a time from outside the home. / *12 Download on App Store. Download on Google Play™. http://av.jpn.support.panasonic.com/support/global/cs/av/mediacenter/ / *13 Recorder's web browser doesn't support flash and some characters sets (e.g. Chinese). Some features of websites may not be available on the Web browser. / *14 Compatible with Android™ devices, Ver.4.2 and above and Miracast™ certified. For information on whether the smartphone, etc. supports Miracast™, contact the manufacturer of the device. / *15 The LUMIX camera must support DLNA (DMR) function. / *16 Excluding the projecting parts. / *17 With the purchase of Wireless LAN Adaptor DY-WL5. Usable capacity will be less. / *18 BCT84 only / *19 not for BCT84 / *20 Compliant with CENELEC EN 50221: February, 1997 / *21 for +RW: +VR / AVCHD only.

Specifications are subject to change without notice. All figures given here are approximate. / Playability may vary depending on the content, disc and quality of the recording. For content recorded for your personal use.

TECHNICAL SPECIFICATIONS

WIRELESS MULTI-ROOM SYSTEMS

ALL Series			ALL7CD Wireless Hi-Fi System	ALL5CD Wireless Hi-Fi System
AUDIO SYSTEM	Output Channel		2ch	2ch
	Power Output (RMS)	Total Power	40W	40W
PLAYABLE DISCS *10	CD, CD-R / -RW	CD-DA / MP3	• / •	• / •
USB	Slot		• USB 2.0 Full Speed	• USB 2.0 Full Speed
	Playback		MP3, AIFF, AAC, FLAC*, WAV* (*Up to 192k/24bit)	MP3
	Battery Charge		•	• (1.5A only)
INTERNAL MEMORY	Capacity		4 GB	—
	Recordable & Playable Type		WAV, MP3 (320kbps)	—
	Rec. from CD / Bluetooth® / USB / Radio / AUX-IN / Music Port		• (CD)	—
	One Touch Mix Play		•	—
TUNER	Band (Station Presets)		FM (30), DAB Plus (20)	FM (30), DAB Plus (20)
	RDS		• (EG) models only	• (EG) models only
SMART NETWORKING & EASY OPERATION	Multi-room Audio with Qualcomm® AllPlay™		•	•
	Wireless LAN System		•	•
	Party Mode*1 / Multi-zone*2		• / •	• / •
	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*3 / NFC (One-Touch Connection)*4		• / —	• / •
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX)*5		• / • / • / • / —	• / • / • / • / •
HIGH-QUALITY SOUND	Bamboo Cone Speaker		• (Nano-sized Bamboo Cone Speaker)	—
	LincsD-Amp		• 3rd generation	• 3rd generation
	XBS Master		•	•
	Audio D/A Converter		—	—
	Bluetooth® Re-master		•	•
DESIGN	Wall-mountable / Portable		— / —	• / —
	Preset Button (Internet Radio / FM / DAB / Memory)		5 buttons (• / • / • / •)	6 buttons (Via app control only)
SPEAKER	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
TERMINALS	Analogue Audio Input (AUX)	3.5mm Jack	•	•
	Analogue Audio Output		—	—
	Digital Audio Output		Phones (3.5mm)	—
	LAN Terminal	10 Base-T / 100 Base-TX	•	•
OTHERS	Power Supply		AC 220—240V, 50Hz	AC 220—240/250V, 50Hz
	Power Consumption	Normal Use	26W	25W
		Standby	0.3W*6	0.3W*6
	Music Alarm / Clock Display / Remote Control		•	•
DIMENSIONS, WEIGHT	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 Wireless Speaker	ALL6 Wireless Speaker	ALL05 Wireless Speaker	ALL2 Wireless Speaker	ALL1C Wireless Connector
AUDIO SYSTEM	Output Channel		2.1ch	2ch	2ch	1ch	—
	Power Output (RMS)	Total Power	80W	40W	20W (AC adaptor), 8W (Battery)	40W	—
PLAYABLE DISCS	CD, CD-R / -RW	MP3	—	—	—	•	•
SMART NETWORKING & EASY OPERATION	Multi-room Audio with Qualcomm® AllPlay™		•	•	•	•	•
	Wireless LAN System		•	•	•	•	•
	Party Mode*1 / Multi-zone*2		• / •	• / •	• / •	• / •	• / •
	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*3		•	•	•	•	•
	Re-streaming: Bluetooth® / CD / Radio / USB / AUX*5		• / — / — / — / •	• / — / — / — / •	• / — / — / — / —	• / — / — / — / •	— / — / — / — / —
	Stereo Pairing / WPS Support		• / •	• / •	• / •	• / •	• / •
HIGH-QUALITY SOUND	Bamboo Cone Speaker (Double-layer nano-sized Bamboo Cone Speaker)		•	•	—	—	—
	Formed Mica & Super Low Distortion Subwoofer		•	—	—	—	—
	LincsD-Amp / XBS Master		• 3rd generation / •	• 3rd generation / •	— / —	— / —	— / —
DESIGN	Waterproof*7 / Portable / Wall-mountable		— / — / •	— / — / —	• / • / —	— / — / —	— / —/ —
	Preset Button: Internet Radio / FM / DAB / Memory		2 buttons (• / — / — / —)	2 buttons (• / — / — / —)	6 buttons	6 buttons (• / — / — / —)	—
SPEAKER	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	—	—	—	—
TERMINALS	Analogue Audio Input (AUX)	3.5mm Jack	•	•	—	•	—
	LAN Terminal	10 Base-T / 100 Base-TX	•	•	•	•	•
OTHERS	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*8	14W / 0.2W*8	(AC adaptor) / 0.5W*8	12W / 0.3W*8	3W / —
	Playback Time with Battery		—	—	8.5 hours (Wi-Fi), 9 hours (Bluetooth®)	—	—
DIMENSIONS, WEIGHT	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

*1 Party Mode: playing a single sound source simultaneously through multiple speakers. The maximum number of speakers is limited (under study). / *2 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). / *3 Download on App Store. Download on Google Play™ . / *4 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. / *5 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 content. If music is streamed to other ALLPlay speakers for more than 8 hours, the other ALLPlay speakers will automatically stop playing the music. / *6 The system must be combined with the SC-ALL70T to use this function. / *7 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. / *8 The other connected devices have to be turned off. Standby (Bluetooth® standby on) power consumption approximately 3.0W (ALL9, ALL6), 0.4W (ALL7CD). / *9 Excluding the mount. Weight with the mount is approximately 0.35kg. When placing the speaker vertically, please use the included mount. / *10 Playability may vary depending on the contents, discs and quality of the recording. / *11 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 Speakerboard	HTE80 Speakerboard
AUDIO SYSTEM	Output Channel		2.1ch	2.1ch
	Power Output Home Cinema Mode (RMS)	Total Power	200W	120W
		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		•	•
SMART NETWORKING	Multi-room Audio with Qualcomm® AllPlay™		—	—
	Wireless LAN System / Bluetooth® Wireless Technology		— / •	— / •
	Panasonic Music Streaming App*1 / NFC (One-Touch Connection)*2		• / •	• / •
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX)*3		—	—
HIGH-QUALITY SOUND	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		• / •	• / •
HIGH-QUALITY PICTURE	Full HD 3D Compatible / 1080p Output (x.v.Colour, Deep Colour)		• / •	• / •
EASY OPERATION	4K/60p Signal Pass Through		•	—
	Auto Gain Control / ARC (Audio Return Channel)*4 / HDMI CEC		• / • / •	• / • / •
SPEAKER SYSTEM	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
TERMINALS	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	• / —	• / —
OTHERS	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use / Standby	54W / 0.4W*5	27W / 0.25W*5
	Display / Remote Control		FL (Dot matrix) / •	FL (Dot matrix) / •
DIMENSIONS, WEIGHT	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)

*1 App is available on App Store. App is available on Google Play™. / *2 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. / *3 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. / *4 ARC-compatible TV is required. / *5 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 Wireless Soundbar	HTB885 Soundbar	HTB688 Soundbar	HTB488 Soundbar	HTB18/8 Soundbar
AUDIO SYSTEM	Output Channel			3.1ch	5.1ch	3.1ch	2.1ch	HTB18: 2.1ch / HTB8: 2ch
	Power Output Home Theatre Mode (RMS)	Total Power		350W	500W	300W	200W	HTB18: 120W / HTB8: 80W
		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: — / — / — /—
SMART NETWORKING & EASY OPERATION	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*1 / NFC (One-Touch Connection)*2			• / •	• / •	• / —	• / —	• / —
	Re-streaming (Bluetooth® / CD / Radio / USB / AUX)*3			• (Bluetooth®)	—	—	—	—
	4K/60p Signal Pass Through			• (HDCP2.2)	• (HDCP2.2)	—	—	—
	Wireless Subwoofer / Auto Gain Control			• / •	• / •	• / —	• / —	— / —
	IR Blaster Included / HDMI-CEC / ARC (Audio Return Channel)*4			• / • / •	• / • / •	— / • / •	— / • / •	— / — / —
	Wall-mountable / Remote Control / Display			• / • / FL	• / • / FL	• / • / LED	• / • / LED	• / • / LED
HIGH-QUALITY SOUND	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			•	•	—	—	—
HIGH-QUALITY PICTURE	Full HD 3D Compatible / 1080p Output (x.v.Colour, Deep Colour)			• / •	• / •	— / —	— / —	— / —
SPEAKER SYSTEM	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: —
TERMINALS	HDMI Output / HDMI Input / Optical Digital Audio Input			• (TV) / • (BD / DVD) / • (TV)	• (TV) / • 2 (BD / DVD, AUX) / • (TV)	• (ARC*4) / — / •	• (ARC*4) / — / •	— / — / • (TV)
	Analogue Audio Input (AUX)	Pin Jack		—	—	—	• (BD / DVD)	
OTHERS	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	42W	33W	30W	19W	HTB18: 35W / HTB8: 20W
			Standby (Bluetooth® standby off)	0.48W*5	0.49W*5	0.5W*5	0.5W*5	0.5W
		Subwoofer	Normal Use	30W	46W	20W	18W	—
			Standby (Power switch off)	0.48W*4	0.2W*4	0.5W	0.5W	—
DIMENSIONS, WEIGHT	Front Speaker	Dimensions (W x H x D), Weight		950 x 55 x 120mm, 2.6kg	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
	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: —

*1 Download on App Store. Download on Google Play™. / *2 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. / *3 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. / *4 ARC-compatible TV is required. / *5 The other connected devices have to be turned off. Standby (Bluetooth® standby on) power consumption approximately 3.0W (HTB885/ ALL70T), 2.0W (HTB688/ HTB488). / *6 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.

TECHNICAL SPECIFICATIONS

COMPACT MUSIC SYSTEMS

PMX/PM Series

			PMX150/152 Hi-Fi Music System	PMX80/82 Hi-Fi Music System	PM600/602 Hi-Fi Music System	PM250/250B Hi-Fi Music System
AUDIO SYSTEM	Output Channel		2ch	2ch	2ch	2ch
	Power Output (RMS)	Total Power / Front	120W / 60W (1kHz, 3 ohms, 10% THD)	120W / 60W (1kHz, 3 ohms, 10% THD)	40W / 20W (1kHz, 6 ohms, 10% THD)	20W / 10W (1kHz, 6 ohms, 10% THD)
PLAYABLE DISCS	CD, CD-R/-RW	CD-DA / MP3	• / •	• / •	• / •	• / •
USB	Slot / USB Standard		• x2 / USB 2.0 High Speed	• x2 / USB 2.0 High Speed	• x1 / USB 2.0 Full Speed	• x1 / USB 2.0 Full Speed
	Playback		MP3, AIFF, AAC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (5.6MHz/2.8MHz)	MP3, AIFF, AAC, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (2.8MHz *Not Support 5.6MHz)	MP3*1	MP3*1
TUNER	Band (Station Presets)		PMX150: FM (30) PMX152: FM (30), DAB Plus (20)	PMX80: FM (30) PMX80B: FM (30), DAB Plus (20)	PM600: FM (30) PM602: FM (30), DAB Plus (20)	PM250: FM (30) PM250B: FM (30), DAB Plus (20)
	RDS / Auto Tuning		• (EG) models only / •	• (EG) models only / •	• (EG) models only / •	• (EG) models only / •
SMART NETWORKING	Multi-room Audio with Qualcomm® AllPlay™		•	—	—	—
	Wireless LAN System / AirPlay		• / •	— / —	— / —	— / —
	Home Network Music Playback		•	—	—	—
	Wi-Fi Frequency Range		• (5GHz/ 2.4GHz)	—	—	—
	Ethernet (10 Base-T/ 100 Base-TX)		•	—	—	—
	Bluetooth® Wireless Technology / WPS Support		• / •	• / —	• / —	• / —
	Panasonic Music Streaming App*2		•	•	•	•
	USB Connection for iPod / iPad / iPhone*3		• (Playback / Charging)	• (Playback / Charging)	—	—
	Re-streaming		• (Bluetooth®, CD, Radio, USB Memory, USB-DAC, AUX)*4,5	—	—	—
	Net Preset Button (for Internet Radio)		• Main Unit & Remote Control (6 Presets)	—	—	—
HIGH-QUALITY SOUND	Full Digital Amplifier System / LincsD-Amp		• / • 3rd generation	• / • 3rd generation	• / —	• / —
	VDGA (Variable Digital Gain Amplifier)		•	•	—	—
	USB-DAC Function		MP3, AIFF, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (5.6MHz/2.8MHz)	MP3, AIFF, FLAC (up to 192kHz/24bit), WAV (up to 192kHz/24bit), DSD (2.8MHz *Not Support 5.6MHz)	—	—
	XBS Master / Bluetooth® Re-Master		• / •	• / •	• / •	• / •
	Super Sonic Tweeter		•	—	—	—
	Bamboo Plant Opal Cone / Bamboo Charcoal PP Cone		• (Woofer) / —	— / • (Woofer)	— / —	— / —
	Preset EQ / Bass & Treble Control		4 (Heavy, Soft, Clear, Vocal) + Flat / •*7	4 (Heavy, Soft, Clear, Vocal) + Flat / •*7	4 (Heavy, Soft, Clear, Vocal) + Flat / •	4 (Heavy, Soft, Clear, Vocal) + Flat / —
SPEAKER SYSTEM	Front	Configuration	3-way 3 speaker system	3-way 3 speaker system	2-way 2 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex
		Speaker Unit	Woofer: 14cm Cone Type, Tweeter: 1.9 m Dome Type Super Sonic Tweeter: 1.2cm Piezo Type	Woofer: 14cm Cone Type, Tweeter: 1.9 m Dome Type Super Tweeter: 1.5cm Piezo Type	Woofer: PP Mica 10cm Cone Type x1 Tweeter: Paper 6cm Cone Type x1	Full Range: 10cm Cone Type
TERMINAL	LAN Terminal		•	—	—	—
	Analogue Audio Input (AUX)	Pin Jack	•	•	—	—
	Headphone Output		•	•	•	—
OTHERS	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use / Standby	45W / 0.4W*6	44W / 0.35W*6	17W / 0.3W*6	14W / 0.2W*6
	Auto Power Off / Dimmer		• / •	• / •	• / •	• / •
	Programmable Timer		Sleep / Clock / Play Timer	Sleep / Clock / Play Timer	Sleep / Clock / Play Timer	Sleep / Clock / Play Timer
	Display / Remote Control		Dot Matrix FL / •	FL / •	FL / •	LCD / •
DIMENSIONS, WEIGHT	Main Unit (W x H x D)		211 x 114 x 267mm, 3.0kg	211 x 114 x 267mm, 2.8kg	153 x 224 x 232mm, 1.4kg	184 x 123 x 228mm, 1.1kg
	Front Speake[7] (W x H x D)		161 x 238 x 264mm, 3.0kg	161 x 238 x 262mm, 2.6kg	145 x 224 x 197mm, 1.9kg	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 Hi-Fi Music System	RS30 Hi-Fi Music System
AUDIO SYSTEM	Output Channel		2ch	2ch
	Output Power: Front Channel (both ch driven)		20W per channel (8 ohms, 1kHz, 10% THD)	20W per channel (8 ohms, 1kHz, 10% THD)
		Total RMS Power	40W	40W
SPEAKER SYSTEM	Type		2-way, 1-speaker system (Bass-reflex)	1-way, 1-speaker system (Bass-reflex)
	Speaker Unit		Full Range 6.5cm Cone Type x2, Twisted Acoustic Port	Full Range 8cm Cone Type x2, Twisted Acoustic Port x2
CD / DVD	Playback Disc*1		CD, CD-R / RW	CD, CD-R / RW
	Format		CD-DA / MP3	CD-DA / MP3
USB	USB Standard		USB 2.0 High speed	USB 2.0 full speed
	Support Format		MP3 / AAC / FLAC / AIFF / WAV	MP3
	Playback*2		•	•
	Battery Charge		1.5A only	1.5A only
TUNER	Band (Station Presets)	FM	30 stations	30 stations
		DAB Plus	20 stations	—
	RDS		• (not for EB models)	• (not for EB models)
NETWORK	Bluetooth	Version / Class	Bluetooth® Ver 2.1 + EDR / Class 2	Bluetooth® Ver 2.1 + EDR / Class 2
	Smartphone App*3	Music Streaming*4	• (iOS, Android, Black Berry, Windows Phone)	• (iOS, Android, Black Berry, Windows Phone)
SOUND FUNCTION	Lincs D-Amp		• (3rd generation)	• (3rd generation)
	Bluetooth® Re-Master		•	•
	D.Bass		•	•
	Clear-mode Dialogue		•	•
	Surround Sound Mode		•	•
	Preset EQ / My Sound Setting		• / •	• / •
TERMINALS	USB Port		x1	x1
	Audio IN / Audio OUT		— / Phones (3.5mm)	— / Phones (3.5mm)
GENERAL	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use	24W	24W
		Standby	Normal: 0.3W, Bluetooth: 0.4W, Network: —	Normal: 0.3W, Bluetooth: 0.35W, Network: —
	Auto Power OFF / Dimmer		• / •	• / •
	Timer Function		• (Sleep / Clock / Play)	• (Sleep / Clock / Play)
DIMENSIONS, WEIGHT	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 Wireless Hi-Fi Music System	HC402/400 Compact Micro System	HC295 Hi-Fi Music System	HC195 Hi-Fi Music System
AUDIO SYSTEM	Output Channel		2ch	2ch	2ch	2ch
	Output Power	Front Channel (both ch driven)	20W per channel (8 ohms, 1kHz, 10% THD)	20W per channel (8 ohms, 1kHz, 10% THD)	10W per channel (8 ohms, 1kHz, 10% THD)	10W per channel (8 ohms, 1kHz, 10% THD)
		Total RMS power	40W	40W	20W	20W
SPEAKER SYSTEM	Type		1-way, 1-speaker system (Bass-reflex)	1-way, 1-speaker system (Bass-reflex)	1-way, 1-speaker system (Bass-reflex)	1-way, 1-speaker system (Bass-reflex)
	Speaker Unit		Full Range: 8cm Cone Type x2, Twisted Acoustic Port x2	Full Range: 8cm Cone Type x2, Twisted Acoustic Port x2	Full Range: 8cm Cone Type x2, Bass Reflex Port	Full Range: 8cm Cone Type x2, Bass Reflex Port
CD / DVD	Playback Disc*1		CD, CD-R / RW	CD, CD-R / RW	CD, CD-R / RW	CD, CD-R / RW
	Format		CD-DA / MP3	CD-DA / MP3	CD-DA / MP3	CD-DA / MP3
USB	USB Standard		USB 2.0 Full Speed	USB 2.0 Full Speed	USB 2.0 Full Speed	USB 2.0 Full Speed
	Support Format		MP3	MP3	MP3	MP3
	Playback*2		•	•	•	•
	Battery Charge		1.5A only	1.5A only	1.5A only	—
TUNER	Station Presets	FM	30 stations	30 stations	30 stations	30 stations
		DAB Plus	20 stations	HC402: 20 stations / HC400: —	—	—
	RDS		• (EG) models only	• not for SC-HC402EB models	•	• (EG) models only
NETWORK	Bluetooth	Version / Class	Bluetooth® Ver 2.1 + EDR / Class 2	Bluetooth® Ver 2.1 + EDR / Class 2	Bluetooth® Ver 2.1 + EDR / Class 2	— / —
	Wi-Fi	WLAN Standard	IEEE802.11 a/b/g/n	—	—	—
		Frequency Range	2.4GHz band / 5GHz band	—	—	—
		Qualcomm® AllPlay™	Support Format: MP3 / AAC / FLAC / ALAC / WAV	—	—	—
	Smartphone App*3	Music Streaming*4	• (iOS, Android, Black Berry, Windows Phone)	• (iOS, Android, Black Berry, Windows Phone)	• (iOS, Android, Black Berry, Windows Phone)	—
	Online Music Services	Spotify / Napster	• / •	— / —	— / —	— / —
		Qualcomm® AllPlay™ Radio powered by TuneIn	•	—	—	—
SOUND FUNCTION	Lincs D-Amp		• (3rd generation)	• (3rd generation)	—	—
	Bluetooth Re-Master		•	•	•	—
	D.Bass / Clear-mode Dialogue		• / •	• / •	• / —	• / —
	Wall-mount Sound Mode / Surround Sound Mode		• / •	• / •	— / •	— / •
	Preset EQ / My Sound Setting		• / •	• / •	• / •	• / •
TERMINALS	USB Port		• (x1)	• (x1)	• (x1)	• (x1)
	Audio IN / OUT		AUX 3.5mm x1 / —	AUX 3.5mm x1 / —	AUX 3.5mm x1 / —	— / —
	LAN		•	—	—	—
GENERAL	Power Supply		AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Nomal Use	25W	23W	23W	14W
		Standby	Normal: 0.2W, Bluetooth: 0.3W, Network: 2W	Normal: 0.2W, Bluetooth: 0.3W, Network: —	Normal: 0.2W, Bluetooth: 0.3W, Network: —	Normal: 0.2W, Bluetooth: —, Network: —
	Auto Power OFF / Dimmer		• / •	• / •	• / •	• / •
	5 Preset Buttons	Radio / Internet Radio	• / •	• / —	— / —	— / —
		Online Music Services	•	—	—	—
	Timer Function		• (Sleep / Clock / Play)	• (Sleep / Clock / Play)	• (Sleep / Clock / Play)	• (Sleep / Clock / Play)
	Wall-mountable		•	•	•	•
	AC Cord	Cord Length	2m	2m	1.5m	1.5m
		Cord Colour	Silver model: white Black model: black	HC402: Silver & White*5 model: white, Black model: black HC400: Silver model: white, Black model: black	black	black
DIMENSIONS, WEIGHT	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 Portable Digital Radio	D10 Portable Digital Radio
AUDIO SYSTEM	Output Channel		1ch	1ch
	Power Output (RMS)		3W (10% THD), AC Adaptor Mode 2W (10% THD), Battery Mode	2W (10% THD), Total Power
TUNER	Band / Station Preset		FM (Mono) / DAB / DAB Plus	FM / DAB / DAB Plus
	Auto Tuning		•	• (for FM)
	Frequency Range		FM 87.5–108MHz (50kHz step)	FM 87.5–108.0MHz (50kHz step), DAB BAND III (5A–13F)
	RDS		•	•*1
EASY OPERATION	Bluetooth® Wireless Technology		•	—
	Clock (Auto Time Adjustment)		• (+/– 70 Sec. / Month)	•
	Sleep Timer / Alarm		30, 60, 90, 120 Min. / •	30, 60, 90, 120 Min. / •
	Memory Tuning		5 User Memory Tuning	10 Channel Memory
	DAB scan*2		•	•
DESIGN	Configuration		1-way 1-speaker	1-way 1-speaker
	Speaker Unit		5cm	Full Range: 10cm (4 ohms)
SPEAKER SYSTEM	Display		LCD with Backlight	LCD with Backlight
	Splash Proof		• (IPX3)	—
TERMINALS	Earphone / Headphone (3.5mm)		—	• (Stereo Mini)
OTHERS	Power Source	Battery	DC 4.5V (3x R6 / LR6)	DC 6V / C x4 (R14 / LR14)
		AC	220–240V, 50/60Hz	220–240V, 50/60Hz
	Power Consumption	Normal Use	2W	7W
		Standby	0.8W (with LCD Dimmer Off)	0.6W
DIMENSIONS, WEIGHT	Dimensions (W x H x D)		90 x 140 x 100mm	251 x 138 x 91mm
	Weight		0.7kg (with batteries), 0.6kg (w/o batteries)	1.3kg (with batteries), 1.0kg (w/o batteries)

*1 Not for RF-D10 (GN). / *2 DAB scan can be done by selecting Full Scan from menu.

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

TECHNICAL SPECIFICATIONS

HIGH POWER AUDIO SYSTEMS

			MAX4000 Party Audio System	CMAX5 Portable Party Audio System	AKX660 Party Audio System	AKX220 Party Audio System	UX100/102 Party Audio System
AUDIO SYSTEM	Output Channel		2ch	1ch	2ch	2ch	2ch
	Power Output (Total Power)	RMS	2400W	1000W	1700W*[8]	450W*[8]	300 W*[8]
PLAYABLE DISCS	CD, CD-R / -RW	CD-DA / MP3	• / •	– / –	• / •	• / •	• / •
USB	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 / Rec + Play	Play / Play	– / –
	Playback	MP3	•	•	•	•	•
	Recording Speed		Hi-speed (max. x3 for CD)	–	Hi-speed (max. x3 for CD)	–	–
INTERNAL MEMORY	Capacity / Recordable & Playable Type		2GB / MP3	– / –	4GB / MP3	– / –	– / –
	Transfer from CD / Bluetooth®*[7] / USB / Radio / AUX-IN*[1]		•	–	•	–	–
TUNER	Band (Station Presets)		FM (30), AM (15)	–	FM (30), AM (15)	FM (30), AM (15)	UX100: FM (30) UX102: FM (30), DAB Plus (28)
SMART NETWORKING	Bluetooth® Wireless Technology		•	•	•	•	•
	NFC (One-Touch Connection)*[2]		•	–	–	–	–
	MAX Juke App Compatible*[3]		•	•	•	•	•
HIGH-QUALITY SOUND	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 football)	•	•	•	•
	Manual Equalizer		• (Bass / Mid / Treble)	• (Bass / Mid / Treble)	• (3 Band + Surround)	• (3 Band + Surround)	• (3 Band + Surround)
	Bluetooth® Re-Master		•	•	–	–	–
EASY OPERATION	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
SPEAKER SYSTEM	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 x2 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
TERMINALS	Analogue Audio Input	Pin Jack / 3.5mm Jack	• / •	• / •	• / •	• / –	• / –
	MIC Jack (6.3mm)		•	• (2x) Guitar input available for 1 MIC	–	–	–
OTHERS	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*[4]	92W / 0.4W*[5]	190W / 0.5W*[5]	60W / 0.5W*[5]	49W / 0.5W*[5]
DIMENSIONS, WEIGHT	Main Unit	Dimensions (W x H x D), Weight	492 x 221 x 421mm, 5.8kg	378 x 724 x 436mm*[4], 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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Specifications are subject to change without notice. All figures given here are approximate.

URBAN AUDIO SYSTEMS

				UA7 Urban Audio System	UA4 Party Audio System	UA3 Party Audio System
AUDIO SYSTEM	Output Channel			2ch	2ch	2ch
	Output Power	Front Channel (both ch driven)		375W per channel (3 ohms, 1kHz, 30% THD)	TBD	TBD
		Total RMS power		1700W	TBD	TBD
PLAYABLE DISCS	Playback Disc*[1]			–	CD, CD-R / RW	CD, CD-R / RW
	Format			–	TBD	TBD
USB	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
TUNER	Station Presets	FM		30 stations	30 stations	30 stations
		DAB Plus		–	•	–
	RDS			•	•	•
SMART NETWORKING	Bluetooth	Version / Class		Bluetooth® Ver 2.1 + EDR / Class 2	TBD	TBD
	Smartphone App	Music Streaming*[2]		• (Android)	• (Android)	• (Android)
SOUND FUNCTION	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			•	•	•
SPEAKER	Front	Configuration	Front Speaker	2-way 4-speaker system (Bass-reflex)	3-way 3-speaker system (TBD)	3-way 3-speaker system (TBD)
			Subwoofer	1-way 1-speaker system	–	–
		Speaker Unit	Front Speaker	6cm Tweeter x4, 8cm Woofer x4	4cm Tweeter x4, 13cm Woofer x2	4cm Tweeter x4, 13cm Woofer x2
			Subwoofer	16cm Super Woofer x2	–	–
TERMINALS	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 / –
GENERAL	Power Supply			AC 220–240V, 50Hz	AC 220–240V, 50Hz	AC 220–240V, 50Hz
	Power Consumption	Normal Use		190W	TBD	TBD
		Standby: Nomal / Bluetooth® Standby		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 / •
DIMENSIONS, WEIGHT	Dimensions (W x H x D) / Weight			260 x 744 x 295mm / 14kg	TBD / TBD	TBD / TBD

*[1] Playability may vary depending on the contents, discs and quality of the recording. / *[2] Download on Google Play™.

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

HEADPHONES SPORTS

				BTS50 Clip	BTS30 Clip	BTS10 Clip	HS34/34M Clip
FEATURES	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		–	–	–	1.2m
		MiniPlug (3.5mm)		–	–	–	•
	Plug			–	–	–	Nickel
	Remote / Mic			• / •	• / •	• / •	HS34: – / – HS34M: – / •
	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	–
ADVANCED	Bluetooth® Wireless Tech.	Version / Operating Distance		4.1 / Up to 10m	4.1 / Up to 10m	4.1 / Up to 10m	– / –
		Supported Profiles		A2DP, AVRCP, HSP, HFP	A2DP, AVRCP, HSP, HFP	A2DP, AVRCP, HSP, HFP	–
		Codec		SBC, aptX®, AAC	SBC	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 Headband	HD6M Headband	HDE10 In-Ear	HDE5M In-Ear	HDE3M In-Ear
FEATURES	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 500kHz)	108dB/mW	107dB/mW (at 500Hz)	106dB/mW (at 500Hz)
	Max. Input (Power Handling Capacity)			1500mW (IEC*)	1000mW (IEC*)	150mW (IEC*)	200mW (IEC*)	200mW (IEC*)
	Frequency Response			4Hz–50kHz	4Hz–40kHz	3Hz–50kHz	5Hz–45kHz	5Hz–40kHz
	Cord	Cord Length		1.2m (3.0m detachable)	1.2m	1.2m	1.2m	1.2m
		MiniPlug (3.5mm) / Plug Adaptor (6.3mm)		• / •	• / –	• / –	• / –	• / –
	Plug			Gold	Gold	Gold	Gold	Gold
	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

				BTD5 Headband	HF400B Headband	HF500/500M Headband	HF300/300M Headband	HF100/100M Headband
FEATURES	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		–	–	1.2m	1.2m	1.2 m
		MiniPlug (3.5mm)		–	–	•	•	•
	Plug			–	–	Gold	Gold	Nickel
	Remote / Mic			• / •	• / •	HF500: – / –; HF500M: • / •	HF300: – / –; HF300M: • / •	HF100: – / –; HF100M: • / •
	Weight			155g (w/o cord)	130g	HF500: 143g, 120g (w/o cord); HF500M: 144g, 120g (w/o cord)	HF300: 124g, 98g (w/o cord); HF300M: 124g, 98g (w/o cord)	HF100: 137g, 113g (w/o cord); HF100M: 138g, 113g (w/o cord)
	Supplied Items			USB charging cord 0.6m	USB charging cord 0.1m	–	–	–
ADVANCED	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 In-Ear	HJX6M In-Ear	TCM360 In-Ear	TCM105 In-Ear	TCM50 In-Ear	HJE125 In-Ear	HV41 In-Ear
GENERAL	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		–	1.2m	1.2m	1.2m	1.2m	1.1m	1.1m
		MiniPlug (3.5mm)		–	•	•	•	•	•	•
	Plug			–	Gold	Gold	Nickel	Nickel	Nickel	Nickel
	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)	–
ADVANCED	Bluetooth® Wireless Tech.	Version / Operating Distance		4.1 / Up to 10m	– / –	– / –	– / –	– / –	– / –	– / –
		Supported Profiles		A2DP, AVRCP, HSP, HFP	–	–	–	–	–	–
		Codec		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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