

Panasonic

PANASONIC HOME ENTERTAINMENT SPRING 2014

Panasonic



SHARPER.
EASIER.
SMARTER.



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TENTATIVE

HOME ENTERTAINMENT SPRING 2014

VIERA
BEYOND SMART TV



← WHAT TV ANYWHERE COULD DO FOR YOU

CASE STUDY 1: You're on a train or waiting at an airport and want to kill time watching live TV. So you open up the Panasonic TV Remote 2 App on your phone or tablet, access your TV back at home through the Internet, and stream live footage from your TV's tuners.

← **CASE STUDY 2:** You're watching TV at home, but feel like popping out for a coffee. So you set the TV to record what you're watching, and head out to the coffee shop. Once there you can access the shop's Wi-Fi network and stream to your smartphone the material your TV has recorded.

← **CASE STUDY 3:** You're on holiday when you realise that you've forgotten to set the TV to record your favourite programme. Thankfully, with TV Anywhere you can access your TV's listings and set the recording remotely using your smart device.

OUTSIDE BROADCASTS

With the latest Panasonic TVs, you're no longer restricted to watching your favourite TV shows in your home.

TV ANYWHERE: WATCH YOUR TV WHEREVER YOU ARE

Not just for the home: Last year Panasonic TVs escaped your living room by allowing you to share content and control throughout your home network. This year they go a big step further, travelling with you into the world outside. And when we say world, that's exactly what we mean. Thanks to the new TV Anywhere feature, you can now access your TV's content from anywhere on the planet.



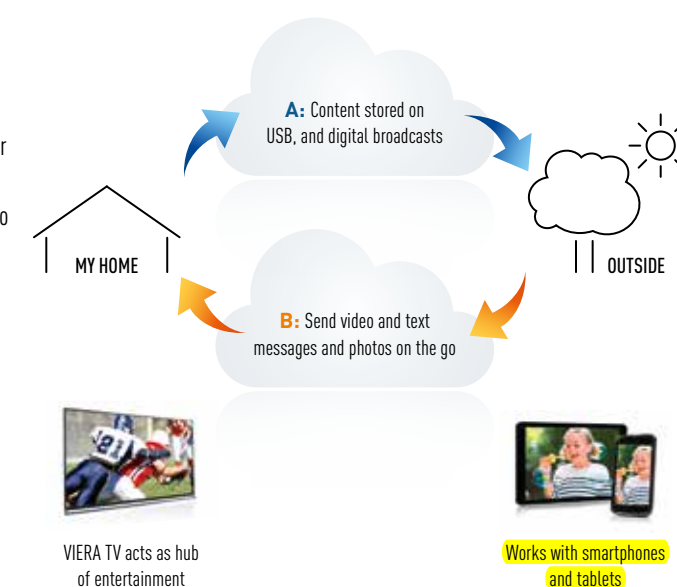
The Panasonic TV Remote 2 App

As well as providing an alternative way of controlling your TV, the TV Remote 2 App now effectively lets you take your TV with you.

How it works: All you need to enjoy TV Anywhere with a new Panasonic TV is a **smartphone or tablet** loaded with Panasonic's TV Remote 2 App and a broadband connection. You can then connect your smart device to your TV at home via the Internet and share the TV's content – including live broadcasts* and content you've recorded onto a connected USB drive – on the screen of your smart device.

*Broadcaster may limit this function

Two-way street: You're not restricted to just watching content from the TV on your smart device either [A]. You can also set timer recordings on the TV remotely, and even send personal information to the TV [B]. For more on this see page 14.



The great TV takeaway

Anyone with a Panasonic TV, an Internet connection and a smartphone or tablet can now access their TV's tuner and USB recordings.



LIFE IN AN INSTANT

Enjoy faster, easier access to the important things in life with the new Panasonic Info Bar.

INFO BAR: FOR THE THINGS THAT MATTER

No more fridge magnets: Traditionally families have used fridges and notice boards as their means of shared communication. Thanks to the new Panasonic Info Bar system, though, your TV can become the much tidier and more flexible heart of your family life. The Info Bar is a new stand-alone, on-screen display available on some new Panasonic TVs that gives you instant access to such life essentials as the current time, weather reports, updates and personal messages.



No interaction required: As well as collecting key life information in one place for you, the Info Bar is motion activated. So as soon as the TV detects you entering the room using its built-in motion detector, it emerges from intelligent standby mode and produces your Info Bar. The feature can also be used as a way of instantly turning the TV on without you even needing to pick up a remote.

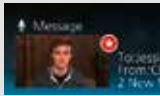
It's all about you: The information shown on the Info Bar is tailored to where you live, showing only local time and weather reports. Plus, of course, all the personal messages the Info Bar shows are connected with members of your family, making it a flexible and comprehensive family hub perfectly suited to today's busy world.



Just for storing food!
Thanks to Info Bar the TV finally provides a modern digital replacement for the old fridge magnet family communication system ...

LIFE'S LITTLE ESSENTIALS

There's some information in life that you always need to know but often can't be bothered to track down. So the Info Bar does the hard work for you, calling up the following information at a moment's notice:



Video and text messages
Family members can leave video or text messages on the TV that the Info Bar makes instantly available to the recipient when they enter the room.



my Stream
See a couple of top highlights from your my Stream content for immediate access or as a reminder to see what else my Stream is recommending.



Time and calendar
Shows at a glance the current date and time of where you live.



Weather report
Find out instantly if you need to take an umbrella when you leave the house!



Face Recognition
Models with built-in or attached cameras can use those cameras to identify who's entered the room and call up the right my Stream and messages accordingly.



UNLOCK THE POWER OF THE CLOUD

The new Panasonic my Home Cloud remote storage system puts your TV at the heart of family life like never before.

MY HOME CLOUD: BRINGING PEOPLE TOGETHER

Remote sharing: The Panasonic TV Cloud-based storage service lets you leave a written message, a photo or even video memos for your family and friends accessible from any Panasonic TV you're logged into. What's more, since these messages are stored online you can send or view them from anywhere in the world via the Panasonic TV Remote 2 App on your smartphone or tablet computer.

Making a date: my Home Cloud lets your whole family synchronise their ever-busier lives with a shared calendar on the TV. You can even add or check dates and events to this calendar remotely via your tablet or smartphone.

THE PERSONAL TOUCH

More than just an app market: The my Home Cloud feature lets Panasonic create an easy-to-navigate, graphically-rich virtual marketplace from where you can download apps and even find and buy TV-related accessories.

Make it personal: my Home Screen has already received great praise for the way it lets you personalise your smart TV experience. Now, **Screen Market** takes this personalisation to another level by giving you access to an online library of pre-designed Home Screen layouts built around different themes, such as football clubs, Twitter, gaming, Facebook and YouTube. Just choose the one that best reflects your interests and/or personality.

ENJOY FREE ACCESS TO YOUR CLOUD

Every smart TV you buy from the Panasonic 2014 range gives you free access to storage space in the Panasonic Cloud and a my Home Cloud ID to keep your account secure. Into this online storage space you can upload text memos or videos and photos made using either a camera built into or attached to your TV or else the camera built into your smartphone or tablet. The new Panasonic TV Remote 2 App provides the portal for this.

Once you've uploaded your content it remains secured there in the cloud so that it can be accessed by any other my Home Cloud users who you allow to become part of your Home Cloud network.

A whole world of apps

The app store on the latest Panasonic TVs comes with a fresh user interface giving you access to a wide range of apps in a stunning, large-screen TV experience. Enjoy the most popular video and music streaming services, video on demand, sports and much more Internet-based content with just one click of a button. Perfect for everyone who wants to do more than just watch their TV!



Your content, your style

Panasonic provides a wide selection of different 'skins' for your my Home Screen experience, so there's sure to be one that suits you.



TECHNOLOGY AND DESIGN IN PERFECT HARMONY

The latest Panasonic TVs take their design inspiration from furniture, making them the perfect partners for your living room.



Elegance over exuberance

The beautifully understated, new stand design doesn't distract you when the TV's on, but looks lovely when it's off.

DESIGN: MADE FOR LIFE

Panasonic has radically shifted its TV design focus for 2014, reflecting the fact that as screen sizes get bigger TVs should integrate more subtly and harmoniously into people's living rooms.

It's all about the screen: The new Panasonic TV designs seek to focus your attention on their screens and the pictures they contain rather than the bodywork around them. Their screen borders are slim and angular, simply following the lines of the screens they hold, while their tabletop stands use subtle finishes and slender 'open' designs that minimise the TVs' physical impact and make them look like they fit seamlessly onto high-quality sideboards and AV furniture.

Authentic materials: To reinforce the new 'TV as furniture' approach, Panasonic builds its new Premium Design TVs using high-quality authentic materials: predominantly glass and metal.

Everything counts: Panasonic has designed its latest TVs to have zero redundancy. Every element of their form either provides functionality or works to harmonise the TV with your décor and furniture. There is no 'design for design's sake'.

A true 360-degree approach: The sleek new exteriors of the latest Panasonic TVs are designed to reflect the look of the user interface and all of its menus and sub-menus.



THE NEW DEFINITION OF NEXT-GENERATION

4K
ULTRA HD TV



SLEEK METAL PEDESTAL
ENHANCES HARMONIC
HOME INTERIOR



AX800

TX-65AX800 | 65" - 164cm | ●
TX-58AX800 | 58" - 146cm | ●
TX-50AX800 | 50" - 126cm | ●

Superb 4K Images meet Cutting-Edge Connectivity Options

Ultra HD LED TV with 2000Hz (BLS) – exceptionally fast panel for impressive motion picture quality and 3D
my Stream – enjoy content recommended to match your preferences, easily via an intuitive interface
4K Studio Master Drive – for more accurate colour and richer, smoother gradation at virtually any brightness
Info Bar – walk by the TV in standby and immediately get the time, weather, any new messages and more
Hexa-Processing Engine Pro – fast processing power, with HEVC decoder, delivers thrilling 4K entertainment



ENERGY
EFFICIENCY
CLASS **B**

4K
ULTRA HD TV





AS BEAUTIFUL ON THE OUTSIDE
AS IT IS ON THE INSIDE

ELEGANT METAL FINISH
HIGHLIGHTS EXCLUSIVE,
PREMIUM DESIGN



AS800

TX-60AS800 | 60" - 151cm | ●
TX-55AS800 | 55" - 139cm | ●
TX-47AS800 | 47" - 119cm | ●

Immersive Images, Full Connectivity and Luxury Design

Full HD IPS LED TV with 1800Hz (BLS) – high-performance panel for stunning motion picture quality and 3D
my Stream – enjoy content recommended to match your preferences, easily via an intuitive interface
Local Dimming – revel in entertainment with more depth thanks to deep blacks and fine dark gradations
Hexa-Processing Engine – fast processing power delivers a thrilling entertainment experience
Advanced Colour Spectrum – means more intense viewing with a natural colour range and brighter images

1) TX-60AS800: A+ class





AS750

Full HD and State-of-the-art Networking in an Elegant Design

TX-55AS750 | 55" - 139cm | ●
TX-47AS750 | 47" - 119cm | ●
TX-42AS750 | 42" - 106cm | ●

Full HD IPS LED TV with 1200Hz (BLS) – high-speed panel for brilliant, smooth motion picture quality and 3D
my Stream – enjoy content recommended to match your preferences, easily via an intuitive interface
Twin Tuner – viewing freedom: watch one broadcast and record another or watch two at the same time
TV Anywhere – your entertainment, from the TV to your Web-enabled mobile device, even outside the home

1) TX-42AS750: A+ class



AS740

Premium-design Smart TV with Built-in Camera

TX-55AS740 | 55" - 139cm | ●
TX-47AS740 | 47" - 119cm | ●
TX-42AS740 | 42" - 106cm | ●

Full HD IPS LED TV with 1200Hz (BLS) – high-speed panel for brilliant, smooth motion picture quality and 3D
my Stream – enjoy content recommended to match your preferences, easily via an intuitive interface
Built-in camera – take Skype™ video calls, or get your personalised my Home Screen from Face Recognition
TV Anywhere – your entertainment, from the TV to your Web-enabled mobile device, even outside the home

1) TX-42AS740: A+ class





SLIM BEZEL HARMONISES
WITH STYLISH SILVER AND
BLACK ELEMENTS



AS650

Advanced Smart TV Features paired with Smooth Motion Pictures

ENERGY
EFFICIENCY
CLASS **A++**¹

TX-60AS650	60" - 151cm	●
TX-55AS650	55" - 139cm	●
TX-50AS650	50" - 126cm	●
TX-47AS650	47" - 119cm	●
TX-42AS650	42" - 106cm	●
TX-39AS650	39" - 98cm	●

- Full HD IPS² LED TV with 1200Hz (BLS)** – high-speed panel for brilliant, smooth motion picture quality and 3D
- my Stream** – enjoy content recommended to match your preferences, easily via an intuitive interface
- TV Anywhere** – your entertainment, from the TV to your Web-enabled mobile device, even outside the home
- 178° wide viewing angle³** – spectacular colour, contrast and brightness for best viewing from virtually any seat

1) TX-60AS650: A+ class, TX-42AS650: A+ class, TX-39AS650: A+ class 2) 39" model features Slim LED LCD 3) 39" model features 176° viewing angle



MODERN SILVER
STRIP EMPHASISES
SLIM DESIGN



AS600

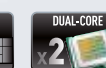
Full HD Viewing in Style with Easy Network Connectivity

ENERGY
EFFICIENCY
CLASS **A+**¹

TX-50AS600	50" - 126cm	●
TX-42AS600	42" - 106cm	●
TX-39AS600	39" - 98cm	●
TX-32AS600 ²	32" - 80cm	●

- Full HD LED TV with 100Hz (BLB) and Dual-Core CPU** – for great picture quality and seamless Smart features
- my Stream** – enjoy content recommended to match your preferences, easily via an intuitive interface
- Internet Apps** – browse the Web, access social sites, enjoy Skype video calls and big-screen entertainment
- Voice Assistant²** – simply use your voice to control the TV, search through your media or browse the Web

1) TX-50AS600: A++ class, TX-32AS600: A class 2) Requirements for Voice Assistant: smartphone or tablet and the TV Remote 2 App. Voice Print functionality is not available. 3) Pedestal varies from displayed model





DISCREET NARROW
BEZEL ATOP
A SLIM PEDESTAL



AS500

Smart Features paired with Vivid Picture Quality

TX-50AS500	50"	126cm	●
TX-42AS500	42"	106cm	●
TX-39AS500	39"	98cm	●
TX-32AS500	32"	80cm	●
TX-24AS500 ²	24"	60cm	●

- Full HD¹ LED TV with 100Hz (BLB)** – enjoy clear motion quality for fast-moving action or sports
- my Home Screen** – customise the start-up screen to quickly access your favourite apps or the App Market
- Internet Apps** – browse the Web, access social sites, enjoy Skype video calls and big-screen entertainment
- Swipe & Share** – use your mobile device with Panasonic TV Remote 2 App to stream media directly to the TV

1) 32" and 24" models are HD ready only 2) Pedestal varies from displayed model



ENERGY
EFFICIENCY
CLASS **A+**

LED



DISCREET NARROW
BEZEL IN BLACK



A400

High Definition Picture Quality in a Slim Design

TX-50A400	50"	126cm	●
TX-42A400	42"	106cm	●
TX-39A400	39"	98cm	●
TX-32A400 ²	32"	80cm	●

- Full HD¹ LED TV with 100Hz (BLB)** – enjoy clear motion quality for fast-moving action or sports
- Media Player** – play back photos, movies and music on the TV easily from any USB storage device
- High Contrast** – delivers deep blacks and bright whites for more dynamic images with great colour
- V-Audio** – enjoy rich sound from high-quality two-directional speakers

1) 32" model is HD ready only 2) Pedestal varies from displayed model



ENERGY
EFFICIENCY
CLASS **A+**

LED





AX800



AS800



AS750



AS740

Model Number | Visible Screen Size (Diagonal)

TX-65AX800 | 65" (164cm)
TX-58AX800 | 58" (146cm)
TX-50AX800 | 50" (126cm)

TX-60AS800 | 60" (151cm)
TX-55AS800 | 55" (139cm)
TX-47AS800 | 47" (119cm)

TX-55AS750 | 55" (139cm)
TX-47AS750 | 47" (119cm)
TX-42AS750 | 42" (106cm)

TX-55AS740 | 55" (139cm)
TX-47AS740 | 47" (119cm)
TX-42AS740 | 42" (106cm)

GENERAL	AX800	AS800	AS750	AS740	AS650	AS600	AS500	A400
Technology								
Resolution								

PICTURE & SOUND QUALITY	AX800	AS800	AS750	AS740	AS650	AS600	AS500	A400
Motion (Hz)								
THX								
Studio Master Drive								
Local Dimming								
Exceptional Colour Range								
3D								
Pure Direct								
Processing Engine								
Content Optimizer								
Viewing Angle								
Contrast								
Audio								

ECO	AX800	AS800	AS750	AS740	AS650	AS600	AS500	A400
Energy Efficiency Class	B	A TX-60AS800: A+	A++ TX-42AS750: A+	A++ TX-42AS740: A+	A++ TX-60AS650: A+ TX-42AS650: A+ TX-39AS650: A+	A+ TX-50AS600: A++ TX-32AS600: A	A+	A+

1) 39" model features Slim LED LCD 2) 32"/24" models are HD ready only 3) 32" model is HD ready only 4) 39" model features 176° viewing angle 5) Requirements for Voice Assistant: smartphone or tablet and the Panasonic TV Remote 2 App. Voice Print functionality is not available on AS600 Series.



AS650



AS600



AS500



A400

Model Number | Visible Screen Size (Diagonal)

TX-60AS650 | 60" (151cm)
TX-55AS650 | 55" (139cm)
TX-50AS650 | 50" (126cm)
TX-47AS650 | 47" (119cm)
TX-42AS650 | 42" (106cm)
TX-39AS650 | 39" (98cm)

TX-50AS600 | 50" (126cm)
TX-42AS600 | 42" (106cm)
TX-39AS600 | 39" (98cm)
TX-32AS600 | 32" (80cm)

TX-50AS500 | 50" (126cm)
TX-42AS500 | 42" (106cm)
TX-39AS500 | 39" (98cm)
TX-32AS500 | 32" (80cm)
TX-24AS500 | 24" (60cm)

TX-50A400 | 50" (126cm)
TX-42A400 | 42" (106cm)
TX-39A400 | 39" (98cm)
TX-32A400 | 32" (80cm)

NETWORKING	AX800	AS800	AS750	AS740	AS650	AS600	AS500	A400
4K 50/60P Input								
Twin HD Tuner (2x CI Slots)								
Built-in Camera								
USB Recording								
Internet Apps								
Wireless LAN built-in								
Web Browser								
Display Mirroring								
Media Player								

EASY OPERATION	AX800	AS800	AS750	AS740	AS650	AS600	AS500	A400
my Stream								
my Home Screen								
TV Anywhere								
Info Bar								
4K Online Player								
Voice Assistant								
Panasonic TV Remote 2 App								
Swipe & Share								
Touch Pad Remote								
3D Eyewear Included								

TECHNICAL SPECIFICATIONS

VIERA LED LCD TV

		AX800 Series	AS800 Series	AS750 Series	AS740 Series
DISPLAY	Panel / Aspect Ratio 16:9	4K ULTRA HD LED LCD	IPS LED (Super Bright Panel)	IPS LED	IPS LED
	Panel Drive	4K 2000Hz BLS IFC	1800Hz BLS IFC	1200Hz BLS IFC	1200Hz BLS IFC
	Viewing Angle	176 degrees	178 degrees	178 degrees	178 degrees
	Contrast	Supreme Contrast	Supreme Contrast	Brilliant Contrast	Brilliant Contrast
	Exceptional Colour Filter	Studio Master Colour	Advanced Colour Spectrum	—	—
	Studio Master Drive	•	•	—	—
	Local Dimming	Local Dimming Pro	Local Dimming	—	—
	Content Optimizer	Content Optimizer Pro	Content Optimizer Pro	Content Optimizer Plus	Content Optimizer Plus
	THX Certified Display	• (4K)	•	—	—
	4K / 1080p Pure Direct isf Mode	• (4K)	• (1080p)	• (1080p)	• (1080p)
3D	3D Type	• (Active)	• (Polarised)	• (Polarised)	• (Polarised)
	2D-3D Conversion	•	•	•	•
SOUND QUALITY	Surround Mode	VR-Audio Pro Surround 2.1	VR-Audio Pro Surround 2.1	VR-Audio True Surround	VR-Audio True Surround
	Speaker Output	18W (4 + 4 + 10)	18W (4 + 4 + 10)	20W (10 + 10)	20W (10 + 10)
	Stage Surround Sound	•	•	—	—
EASY OPERATION	my Home Screen	•	•	•	•
	my Stream	•	•	•	•
	Voice Assistant ^{*1}	•	•	•	•
	Voice Command / Voice Guidance	• / •	• / •	• / •	• / •
	Touch Pad Remote (with my Button)	•	•	•	•
	Info Bar	•	•	—	—
	Camera Integrated	•	•	— ^{*2}	•
	eHelp	•	•	•	•
NETWORKING	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-S2/DVB-C
	Twin HD Tuner / HD Triple Tuner	•	•	•	—
	Processing Engine	Hexa-Processing Engine Pro	Hexa-Processing Engine	Dual-Core Plus	Dual-Core Plus
	Wireless LAN built-in	•	•	•	•
	my Home Cloud	•	•	•	•
	TV Anywhere / Remote Sharing	• / •	• / •	• / •	• / •
	Panasonic TV Remote 2 App	•	•	•	•
	Swipe & Share / Live TV Streaming ^{*3}	• / •	• / •	• / •	• / •
	Smart Calibration	•	•	—	—
	Internet Apps	•	•	•	•
	Web Browser ^{*4}	•	•	•	•
	Panasonic 4K Channel	•	—	—	—
	Display Mirroring	•	•	•	•
	Network File Sharing	• (Server/Client)	• (Client)	• (Client)	• (Client)
	DLNA	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)
	Bluetooth ^{*5}	• ^{*10}	•	•	•
	Media Player (Picture/Movie/Music)	•	•	•	•
	HbbTV	•	•	•	•
	USB-HDD Recording	•	•	•	•
	Multi Window	2-Tuner PAP/PIP/PAT	2-Tuner PAP/PIP/PAT	2-Tuner PAP/PIP/PAT	PAT
ECO	Hotel Mode / Game Mode	• / •	• / •	• / •	• / •
	Suppliers Trademark	Panasonic	Panasonic	Panasonic	Panasonic
	Model ID	TX-65AX800E TX-55AX800E TX-50AX800E	TX-65AS800E TX-55AS800E TX-47AS750E TX-42AS750E	TX-55AS750E TX-47AS750E TX-42AS750E	TX-55AS740E TX-47AS740E TX-42AS740E
	Energy Efficiency Class	B	60"- A+, 55"- A, 47"- A	55"- A++, 47"- A+, 42"- A+	55"- A++, 47"- A+, 42"- A+
	Visible Screen Size (diagonal)	65"- 164cm, 58"- 146cm, 50"- 126cm	60"- 151cm, 55"- 139cm, 47"- 119cm	55"- 139cm, 47"- 119cm, 42"- 106cm	50"- 126cm, 42"- 106cm, 39"- 98cm, 32"- 80cm, 24"- 60cm
	On Mode Average Power Consumption ^{*4}	65"- 226W, 58"- 182W, 50"- 138W	60"- 107W, 55"- 106W, 47"- 90W	55"- 63W, 47"- 48W, 42"- 48W	50"- 53W, 42"- 47W, 39"- 48W, 32"- 44W
	Annual Energy Consumption ^{*7}	65"- 313kWh/year, 58"- 252kWh/year, 50"- 191kWh/year	60"- 148kWh/year, 55"- 147kWh/year, 47"- 125kWh/year	55"- 88kWh/year, 47"- 67kWh/year, 42"- 67kWh/year	50"- 80kWh/year, 42"- 65kWh/year, 39"- 56kWh/year, 32"- 44kWh/year
	Standby Power Consumption	0.20W	0.20W	0.20W	0.20W
	Off Mode Power Consumption	0.20W	0.20W	0.20W	0.20W
	Screen Resolution	3,840 (W) x 2,160 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)
	Power Supply	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz
	Rated Power Consumption	65"- 317W, 58"- 272W, 50"- 237W	60"- 284W, 55"- 254W, 47"- 202W	55"- 164W, 47"- 131W, 42"- 126W	55"- 150W, 42"- 118W, 39"- 113W
	Ambient Sensor	•	•	•	•
TERMINAL	DisplayPort (4K 60/50p Input)	1 (bottom)	—	—	—
	HDMI / HDMI (4K 60/50p Input)	3 (side), 1 (bottom)	3 (side), 1 (bottom)	1 (side), 2 (bottom)	1 (side), 2 (bottom)
	Support Feature HDCP 2.2	•	—	—	—
	USB	3 (side; USB 3.0 x 1, USB 2.0 x 2)	3 (side; USB 3.0 x 1, USB 2.0 x 2)	3 (side; USB 3.0 x 1, USB 2.0 x 2)	3 (side; USB 3.0 x 1, USB 2.0 x 2)
	LAN Port	1 (bottom)	1 (bottom)	1 (bottom)	1 (bottom)
	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)
	SD Card / Scart Connector	• (SDXC) / 1 (bottom)	• (SDXC) / 1 (bottom)	• (SDXC) / 1 (rear)	• (SDXC) / 1 (rear)
	Component Video Input shared w. Composite	RCA phono type x 1 (bottom)	RCA phono type x 1 (bottom)	RCA phono type x 1 (rear)	RCA phono type x 1 (rear)
	Digital Audio Output (Optical) / Headphone	1 (side) / 1 (side)	1 (side) / 1 (side)	1 (bottom) / 1 (side)	1 (bottom) / 1 (side)
GENERAL	Included Accessory ^{*8}	Touch Pad Remote / TV Remote / 3D Glasses (2 pcs)	Touch Pad Remote / TV Remote / 3D Glasses (2 pcs)	Touch Pad Remote / TV Remote / 3D Glasses (2 pcs)	Touch Pad Remote / TV Remote / 3D Glasses (1 pc)
	Dimensions (W x H x D) (w/o stand)	65"- 1,466 x 863 x 45mm, 58"- 1,306 x 779 x 42mm, 50"- 1,131 x 673 x 42mm	60"- 1,350 x 787 x 53mm, 55"- 1,242 x 727 x 53mm, 47"- 1,072 x 631 x 53mm	55"- 1,243 x 722 x 53mm, 47"- 1,074 x 625 x 53mm, 42"- 962 x 562 x 53mm	50"- 1,126 x 652 x 53mm, 42"- 947 x 552 x 53mm, 39"- 886 x 516 x 53mm, 32"- 727 x 432 x 67mm
	Dimensions (W x H x D) (with stand)	65"- 1,466 x 887 x 368mm, 58"- 1,306 x 803 x 294mm, 50"- 1,131 x 697 x 238mm	60"- 1,350 x 812 x 303mm, 55"- 1,242 x 752 x 247mm, 47"- 1,072 x 656 x 253mm	55"- 1,243 x 767 x 292mm, 47"- 1,074 x 671 x 214mm, 42"- 962 x 608 x 202mm	50"- 1,126 x 697 x 260mm, 42"- 947 x 597 x 247mm, 39"- 886 x 560 x 247mm, 32"- 727 x 465 x 194mm, 24"- 562 x 409 x 180mm
	Weight (w/o stand)	65"- 41.0kg, 58"- 33.0kg, 50"- 24.0kg	60"- 25.0kg, 55"- 21.0kg, 47"- 17.0kg	55"- 19.0kg, 47"- 13.5kg, 42"- 10.5kg	50"- 15.0kg, 42"- 12.0kg, 39"- 10.0kg, 32"- 6.5kg
	Weight (with stand)	65"- 59.0kg, 58"- 48.0kg, 50"- 34.0kg	60"- 34.0kg, 55"- 30.0kg, 47"- 23.0kg	55"- 20.0kg, 47"- 14.5kg, 42"- 11.5kg	50"- 16.0kg, 42"- 10.5kg, 39"- 11.0kg, 32"- 5.5kg, 24"- 5.0kg
	VESA Compatible	•	•	•	•

^{*1} Availability depending on location. ^{*2} Skype Camera is optionally available. ^{*3} Live TV Streaming depends on legal rights and allowance by country, broadcaster and content. ^{*4} The Web Browser cannot display some Web pages correctly. And viewable content by VIERA Web Browser is subject to the following conditions: viewable content may vary depend on models, viewable content may differ from those for PC, viewable content may be limited. ^{*5} HID (Human Interface Device Profile) compliant keyboards are available. A2DP (Advanced Audio Distribution Profile) compliant audio devices are available. ^{*6} Based on IEC 62087 Ed.2 measurement method. ^{*7} 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. ^{*8} Not all the accessories are listed here. ^{*9} Requirements for Voice Assistant: smartphone or tablet and the Panasonic TV Remote 2 App. Voice Print functionality is not available on AS600 Series. ^{*10} AX800 Series supports keyboards/mouses only.



		AS650 Series	AS600 Series	AS500 Series	A400 Series
DISPLAY	Panel / Aspect Ratio 16:9	IPS LED (39"- Slim LED LCD)	Slim LED LCD	LED LCD	LED LCD
	Panel Drive	1200Hz BLS IFC	100Hz BLB	100Hz BLB	100Hz BLB
	Viewing Angle	178 degrees (39" = 176°)	176 degrees	176 degrees	176 degrees
	Contrast	Brilliant Contrast	High Contrast	High Contrast	High Contrast
	Exceptional Colour Filter	—	—	—	—
	Studio Master Drive	—	—	—	—
	Local Dimming	—	—	—	—
	Content Optimizer	Content Optimizer Plus	Content Optimizer	Content Optimizer	Content Optimizer
	THX Certified Display	—	—	—	—
	4K / 1080p Pure Direct isf Mode	• (1080p)	—	—	—
3D	3D Type	• (Polarised)	—	—	—
	2D-3D Conversion	•	—	—	—
SOUND QUALITY	Surround Mode	VR-Audio True Surround	V-Audio	V-Audio	V-Audio
	Speaker Output	20W (10 + 10)	20W (10 + 10)	20W (10 + 10)	20W (10 + 10)
	Stage Surround Sound	—	—	—	—
EASY OPERATION	my Home Screen	•	•	•	—
	my Stream	•	•	—	—
	Voice Assistant ^{*1}	•	• ^{*9}	—	—
	Voice Command / Voice Guidance	• / •	• / •	— / •	— / —
	Touch Pad Remote (with my Button)	•	•	—	—
	Info Bar	—	—	—	—
	Camera Integrated	— ^{*2}	— ^{*2}	— ^{*2}	—
	eHelp	•	•	•	—
NETWORKING	Digital Tuner Reception	DVB-T/T2/DVB-C	DVB-T/DVB-C	DVB-T/DVB-C	DVB-T/DVB-C
	Twin HD Tuner / HD Triple Tuner	—	—	—	—
	Processing Engine	Dual-Core Plus	Dual-Core	Vreal Smart Pro	Vreal Pro
	Wireless LAN built-in	•	•	•	—
	my Home Cloud	•	•	•	—
	TV Anywhere / Remote Sharing	• / •	— / •	— / •	— / —
	Panasonic TV Remote 2 App	•	•	•	—
	Swipe & Share / Live TV Streaming ^{*3}	• / •	• / —	• / —	— / —
	Smart Calibration	—	—	—	—
	Internet Apps	•	•	•	—
	Web Browser ^{*4}	•	•	•	—
	Panasonic 4K Channel	—	—	—	—
	Display Mirroring	•	•	•	—
	Network File Sharing	• (Client)	• (Client)	• (Client)	—
	DLNA	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	• (RUIZ.Q/DTCP-IP/DMP/DMR/DMS)	—
	Bluetooth ^{*5}	—	—	—	—
	Media Player (Picture/Movie/Music)	•	•	•	•
	HbbTV	•	•	•	—
	USB-HDD Recording	•	—	—	—
	Multi Window	PAT	PAT	PAT	—
ECO	Hotel Mode / Game Mode	• / •	• / —	• / —	• / —
	Suppliers Trademark	Panasonic	Panasonic	Panasonic	Panasonic
	Model ID	TX-60AS60E, TX-55AS60E, TX-50AS60E/TX-39AS600EW, TX-42AS60E, TX-39AS600EW, TX-32AS60E, TX-24AS60E	TX-50AS60E, TX-42AS60E/TX-42AS600EW, TX-39AS600EW, TX-32AS600EW, TX-24AS600EW	TX-50AS50E, TX-42AS50E, TX-39AS50E, TX-32AS50E, TX-24AS50E	TX-50A400E, TX-42A400E, TX-39A400E, TX-32A400E
	Energy Efficiency Class	60"- A+, 55"- A++, 50"- A+, 47"- A+, 42"- A+, 39"- A+, 32"- A	50"- A++, 42"- A+, 39"- A+, 32"- A	A+	A+
	Visible Screen Size (diagonal)	60"- 151cm, 55"- 139cm, 50"- 126cm, 47"- 119cm, 42"- 106cm, 39"- 98cm, 32"- 80cm	50"- 126cm, 42"- 106cm, 39"- 98cm, 32"- 80cm, 24"- 60cm	50"- 126cm, 42"- 106cm, 39"- 98cm, 32"- 80cm, 24"- 60cm	50"- 126cm, 42"- 106cm, 39"- 98cm, 32"- 80cm
	On Mode Average Power Consumption ^{*4}	60"- 88W, 55"- 63W, 50"- 52W, 47"- 48W, 42"- 48W, 39"- 47W	50"- 53W, 42"- 47W, 39"- 48W, 32"- 44W	50"- 53W, 42"- 47W, 39"- 41W, 32"- 30W, 24"- 17W	50"- 50W, 42"- 51W, 39"- 41W, 32"- 30W
	Annual Energy Consumption ^{*7}	60"- 123kWh/year, 55"- 88kWh/year, 50"- 73kWh/year, 47"- 67kWh/year, 42"- 67kWh/year, 39"- 66kWh/year	50"- 87kWh/year, 42"- 76kWh/year, 39"- 67kWh/year, 32"- 62kWh/year	50"- 87kWh/year, 42"- 65kWh/year, 39"- 56kWh/year, 32"- 44kWh/year, 24"- 24kWh/year	50"- 80kWh/year, 42"- 71kWh/year, 39"- 57kWh/year, 32"- 44kWh/year
	Standby Power Consumption	0.20W	50"/42"/39"- 0.20W, 32"- 0.30W	50"/32"- 0.30W, 42"- 0.20W, 39"/24"- 0.25W	50"/39"- 0.20W, 42"- 0.35W, 32"- 0.30W
	Off Mode Power Consumption	0.20W	50"/42"/39"- 0.20W, 32"- 0.30W	50"/32"- 0.30W, 42"- 0.20W, 39"/24"- 0.25W	50"/39"- 0.20W, 42"- 0.35W, 32"- 0.30W
	Screen Resolution	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)
	Power Supply	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz	AC 220-240V, 50/60Hz
	Rated Power Consumption	60"- 147W, 55"- 133W, 50"- 116W, 47"- 101W, 42"- 90W, 39"- 76W	50"- 98W, 42"- 81W, 39"- 71W, 32"- 70W	50"- 95W, 42"- 92W, 39"- 70W, 32"- 50W, 24"- 42W	50"- 89W, 42"- 91W, 39"- 67W, 32"- 45W
	Ambient Sensor	•	•	•	•
TERMINAL	DisplayPort (4K 60/50p Input)	—	—	—	—
	HDMI / HDMI (4K 60/50p Input)	1 (side), 2 (bottom)	3 (rear)	2 (rear)	2 (rear)
	Support Feature HDCP 2.2	•	—	—	—
	USB	2 (side; USB 2.0 x 2)	2 (side; USB 2.0 x 2)	1 (side; USB 2.0 x 1)	1 (side; USB 2.0 x 1)
	LAN Port	1 (bottom)	1 (rear)	1 (rear)	—
	CI (Common Interface)	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 / Scart Connector	• (SDXC) / 1 (rear)	— / 1 (rear)	— / 1 (rear)	— / 1 (rear)
	Component Video Input shared w. Composite	RCA phono type x 1 (rear)	RCA phono type x 1 (rear)	RCA phono type x 1 (rear)	RCA phono type x 1 (rear)
	Digital Audio Output (Optical) / Headphone	1 (bottom) / 1 (side)	1 (rear) / 1 (side)	1 (rear) / 1 (side)	1 (rear) / 1 (side)
GENERAL	Included Accessory ^{*8}	Touch Pad Remote / TV Remote / 3D Glasses (1 pc)	TV Remote	TV Remote	TV Remote
	Dimensions (W x H x D) (w/o stand)	60"- 1,351 x 778 x 63mm, 55"- 1,244 x 722 x 54mm, 50"- 1,130 x 658 x 54mm, 47"- 1,074 x 625 x 54mm, 42"- 962 x 562 x 54mm, 39"- 886 x 516 x 53mm	50"- 1,126 x 652 x 53mm, 42"- 947 x 552 x 53mm, 39"- 886 x 516 x 53mm, 32"- 733 x 436 x 59mm	50"- 1,126 x 652 x 53mm, 42"- 963 x 566 x 53mm, 39"- 886 x 516 x 53mm, 32"- 727 x 432 x 67mm	50"- 1,126 x 652 x 53mm, 42"- 943 x 566 x 69mm, 39"- 886 x 516 x 53mm, 32"- 727 x 432 x 67mm
	Dimensions (W x H x D) (with stand)	60"- 1,351 x 823 x 292mm, 55"- 1,244 x 767 x 292mm, 50"- 1,130 x 703 x 214mm, 47"- 1,074 x 671 x 214mm, 42"- 962 x 608 x 202mm, 39"- 886 x 562 x 202mm	50"- 1,126 x 697 x 260mm, 42"- 947 x 597 x 247mm, 39"- 886 x 560 x 247mm, 32"- 733 x 505 x 184mm	50"- 1,126 x 697 x 260mm, 42"- 963 x 610 x 247mm, 39"- 886 x 560 x 247mm, 32"- 727 x 465 x 194mm, 24"- 562 x 409 x 180mm	50"- 1,126 x 697 x 260mm, 42"- 963 x 610 x 247mm, 39"- 886 x 560 x 247mm, 32"- 727 x 464 x 194mm
	Weight (w/o stand)	60"- 20.5kg, 55"- 18.5kg, 50"- 14.5kg, 47"- 13.0kg, 42"- 10.0kg, 39"- 10.5kg	50"- 15.0kg, 42"- 12.0kg, 39"- 10.0kg, 32"- 6.5kg	50"- 15.0kg, 42"- 9.0kg, 39"- 10.0kg, 32"- 4.5kg	50"- 15.0kg, 42"- 9.0kg, 39"- 10.0kg, 32"- 5.0kg
	Weight (with stand)	60"- 21.5kg, 55"- 19.5kg, 50"- 15.5kg, 47"- 14.0kg, 42"- 11.0kg, 39"- 11.5kg	50"- 16.0kg, 42"- 10.5kg, 39"- 11.0kg, 32"- 7.0kg	50"- 16.0kg, 42"- 10.5kg, 39"- 11.0kg, 32"- 5.5kg, 24"- 5.0kg	5

ALL. YOUR MUSIC IN EVERY ROOM:
ALL SERIES



SC-ALL8

Large, Mains Powered ○ ●

Powerful Multi-room Hi-Fi Speaker System

Qualcomm AllPlay – wirelessly stream music from multiple sources to any room and easily monitor via mobile device
Music Subscription Service app/Internet radio – full enjoyment via direct control of latest functions and more
5 speakers, LincsD-Amp and XBS Master – fill even spacious interiors with excellent Hi-Fi sound
Party Mode – stream music simultaneously to multiple speakers throughout the home for a party-like atmosphere
Multi-Zone – stream multiple songs within the same network to separate speakers for individual listening pleasure



SC-ALL3

Compact, Mains Powered ● ○

Flexible Multi-room Hi-Fi Speaker System

Qualcomm AllPlay – wirelessly stream music from multiple sources to any room and easily monitor via mobile device
Music Subscription Service app/Internet radio – full enjoyment via direct control of latest functions
Elegant, flexible design – fits in any room, vertical or horizontal, to ideally satisfy personal sound preferences
Party Mode – stream music simultaneously to multiple speakers throughout the home for a party-like atmosphere
Multi-Zone – stream multiple songs within the same network to separate speakers for individual listening pleasure



SH-ALL1C

Connector ●

Multi-room Connection for Existing Audio Systems and Speakers

Digital & analogue output – easily connect your existing audio systems or speakers to your new multi-room streaming world
192kHz/24-bit DAC – delivers high-quality sound by perfectly transforming digital content into analogue signals
Music Subscription Service app/Internet radio – full enjoyment via direct control of latest functions
Party Mode – stream music simultaneously to multiple speakers throughout the home for a party-like atmosphere
Multi-Zone – stream multiple songs within the same network to separate speakers for individual listening pleasure



SC-ALL8	●	●	●	●	●
SC-ALL3	●	●	●	●	●
SH-ALL1C	●	●	●	●	●

UNCOMPROMISING SOUND & PICTURE QUALITY



7.1CH ANALOGUE
AUDIO OUTPUT



The THX Certified* Panasonic Blu-ray Disc player reproduces pictures and sounds with the same detail and clarity as found in the film-makers studio.



DMP-BDT700 Premium Blu-ray Player for Extraordinary Sound and Images



4K 60p output, 4K Direct Chroma up-scaling and 4K JPEG playback – for ultimate Ultra HD entertainment
4x 192kHz/32-bit digital/analogue converters and 96Hz Surround Re-Master – deliver true-to-life audio
Miracast – enjoy your smartphone and tablet content on the large-screen TV
Internet Apps support – gives you more viewing enjoyment with video on demand and Web browsing



DMP-BDT700

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DMP-BDT500 Premium Blu-ray Player for Outstanding Audio Entertainment



4x 192kHz/32-bit digital/analogue converters and 7.1-channel analogue audio – for an outstanding sound experience
Twin HDMI and Pure Audio via HDMI – deliver high-resolution, dynamic digital audio
Adaptive Chroma Processing – enjoy true-to-cinema picture quality in both 3D and 2D
Online applications and 2D-3D Conversion – enhance your entertainment experience even more



DMP-BBT01 Ultra-compact Blu-ray Player with Smart Networking Features



Ultra-compact, elegant design – the sleek style is an eye-catcher in any home or room interior
Online applications and 2D-3D Conversion – enhance your entertainment experience even more
DLNA and Wi-Fi Built-in – share media easily between different rooms and get the most out of smart home networking
Adaptive Chroma Processing – enjoy true-to-cinema picture quality in both 3D and 2D



DMP-BDT500
DMP-BBT01

•	•	•	•	•	•	•
•	•	•	•	•	•	•

TECHNICAL SPECIFICATIONS



WIRELESS MULTI-ROOM SYSTEMS

		SC-ALL8	SC-ALL3	SH-ALL1C
AUDIO SYSTEM	Output Channel	2.1ch	2ch	-
	Power Output (RMS)	80W	40W	-
	Front	20W per channel (1kHz, 8 ohms, 10% THD)	20W per channel (1kHz,8 ohms,10% THD)	-
	Subwoofer	40W (100Hz, 4 ohms, 10% THD)	-	-
PLAYABLE FORMAT	MP3 / AAC / WAV / FLAC / ALAC	•	•	•
HIGH-QUALITY SOUND	Double-Layer Nano-Sized Bamboo Cone Speaker	•	•	-
	LincsD-Amp	• (2nd generation)	• (2nd generation)	-
	XBS Mater	•	•	-
	Formed Mica & Super Low Distortion Subwoofer	•	•	-
	Audio D/A Converter	-	-	192kHz/24-bit
SMART NETWORKING	Party Mode ^{*1} / Multi-zone ^{*2}	•	•	•
	Subscription Service	•	•	•
	Wi-Fi Frequency Range	• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)	• (5GHz / 2.4GHz)
	Ethernet (10 Base-T / 100 Base-TX)	•	•	•
	WPS support	•	•	•
	Panasonic Music Streaming App ^{*3}	•	•	•
DESIGN	Wall-Mountable	•	-	-
SPEAKER SYSTEM	Subwoofer	Configuration	1-way 1 speaker system (Bass-reflex)	-
		Speaker Unit [Approx.] Subwoofer	12cm x 1	-
	Front Speaker	Configuration	2-way 2 speaker system (Closed)	-
		Speaker Unit [Approx.] Woofer	8cm x 2	-
		Speaker Unit [Approx.] Tweeter	2.5cm x 2	-
TERMINAL	Digital Audio Output	-	-	•
	Analogue Audio Output	Stereo (Gold-Coating Pin Jack)	-	• (FS:2Vrms)
	Analogue Audio Input (AUX)	Stereo (3.5mm Jack)	•	-
	LAN (Ethernet) Terminal	10 Base-T / 100 Base-TX	•	•
OTHERS	Power Supply	AC 220~240V 50Hz	AC 220~240V 50Hz	AC 220~240V 50Hz
	Power Consumption	Normal Use [Approx.]	14W	3W
		Standby [Approx.]	0.15W	0.2W
DIMENSIONS, WEIGHT	Dimensions (W x H x D)	373 x 224 x 138mm	248 x 131 x 155mm	135 x 51 x 142mm
	Weight	4.2kg	2.5kg	0.34kg ^{*4}

^{*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 the App Store. Download on Google Play™. ^{*4} Excluding the mount. Weight with the mount is approximately 0.35kg. When placing the speaker vertically, please use the included mount. – Specifications are subject to change without notice. Weight and dimensions are approximate.

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WIRELESS BLUETOOTH SPEAKERS

		SC-NA10	SC-NA30
AUDIO SYSTEM	Output Channel	2ch	2.1ch
	Power Output (RMS)	10W - AC Adaptor / 8W - Battery	20W - AC Adaptor / 16W - Battery
	Front	5W per channel (1kHz, 6 ohms, 10% THD) - AC Adaptor 4W per channel (1kHz, 6 ohms, 10% THD) - Battery	5W per channel (1kHz, 6 ohms, 10% THD) - AC Adaptor 4W per channel (1kHz, 6 ohms, 10% THD) - Battery
	Subwoofer	-	10W per channel (100Hz, 3 ohms, 10% THD) - AC Adaptor 8W per channel (100Hz, 3 ohms, 10% THD) - Battery
USB	Slot	• (Battery charging for mobile device only)	• (Battery charging for mobile device only)
SOUND QUALITY	XBS Master (XBS / H.Bass / Multi Band Gain Control)	•	•
	Integrated Subwoofer	-	•
	Double Neodymium magnet	•	•
	Bluetooth Re-master	•	•
SMART NETWORKING	Panasonic Music Streaming App ^{*1}	•	•
	Bluetooth Wireless Technology / NFC (One-Touch Connection) ^{*2}	•	•
	aptX Low Latency ^{*2}	•	•
	Hands-Free Speakerphone	•	•
	Smartphone Charging ^{*4}	•	•
DESIGN	Cover Stand	•	-
SPEAKER SYSTEM	Front	Configuration	1-way 1 speaker system (Passive RadiatorType)
		Speaker Unit(s) [Approx.]	1-5/8" (4cm) x 2
	Built-in Subwoofer	Configuration	-
		Speaker Unit [Approx.]	1-way 1 speaker system (Passive Radiator Type)
	Passive Radiator	Speaker Unit [Approx.]	8cm x 1 8cm x 2
TERMINAL	Analogue Audio Input Stereo Ø3.5mm	• [AUX]	• [AUX]
OTHERS	Power Supply	DC IN 12V, 3A, Internal Battery 7.4V (Li-ion 1240mAh)	DC IN 12V, 3A, Internal Battery 7.2V (Li-ion 2900mAh)
	Battery Life in Use ^{*5}	LP Mode / Normal Mode [Approx.]	20h ^{*6} / 11h
	Battery Charge Time [Approx.]	3h	3h
DIMENSIONS, WEIGHT	Dimensions (W x H x D)	204 x 105 x 41mm - with cover, 200 x 99 x 29mm - without cover	244 x 144 x 48mm
	Weight	520g - with cover, 415g - without cover	930g

^{*1} App is available in the App Store. App is available in Google Play. ^{*2} The aptX mark and the aptX logo are trademarks of CSR plc or one of its group companies. ^{*3} The installation of the Panasonic Music Streaming App required, before using NFC with the smartphone and tablet. OS Version 2.3.3 or later, Android device compatible with NFC only. ^{*4} Rated value of DC output port of this unit is 5V/1A. If your device do not match this rate, your device may not charge even if you connect your device to the DC output port with a compatible cable. ^{*5} By the measurement method prescribed in the provisions. ^{*6} LP mode is the mode that uses much less power, by lowering sound pressure. Rated output power of usual battery operation is 8 Watts (RMS). Rated output power of LP mode is 1 Watts (RMS). ^{*7} LP mode is the mode that uses much less power, by lowering sound pressure. Rated output power of usual battery operation is 16 Watts (RMS). Rated output power of LP mode is 8 Watts (RMS). – Specifications are subject to change without notice. Weight and dimensions are approximate.

COMPACT MUSIC SYSTEMS

		SC-PMX9	SC-PMX7/5	SC-PM250
PLAYABLE DISCS	CD, CD-R / -RW ^{*1}	CD-DA, MP3 ^{*2}	•	•
AUDIO SYSTEM	Output Channel	2ch	2ch	2ch
	Power Output (RMS)	Total Power / Front	120W / 60W (1kHz, 3 ohms, 10% THD)	120W / 60W (1kHz, 3 ohms, 10% THD)
			120W / 10W (1kHz, 6 ohms, 10% THD)	
USB	Slot	•	•	•
	USB Standard	USB 2.0	USB 2.0 Full Speed	USB 2.0 Full Speed
	Playback	MP3 ^{*2} / FLAC ^{*2}	• / -	• / -
HIGH-QUALITY SOUND	Full Digital Amplifier System / High Performance Super Tweeter	• / •	• / -	• / -
	Low-noise Voltage Regulator / High-Quality Chip Film Capacitor	•	-	-
	LincsD-Amp	•	•	-
	Bluetooth Re-Master	-	-	•
	Flat Front Speaker	•	-	-
	Anti-Vibration Chassis	• (Main Unit)	• (Main Unit)	-
	Bamboo Carcoal PP Cone	• (Woofer)	• (Woofer)	-
	Digital Music Connection for iPod / iPhone / iPad	•	•	-
	D.Bass / Surround	•	•	•
	Preset EQ	4 (Heavy, Clear, Soft, Vocal) + Flat	4 (Heavy, Clear, Soft, Vocal) + Flat	4 (Heavy, Clear, Soft, Vocal) + Flat
	Bass & Treble Control	• (Knob on main unit)	• (Knob on main unit)	•
EASY OPERATION	Display	FL	FL	LCD
SMART NETWORKING	Panasonic Music Streaming App ^{*3}	•	•	•
	Wireless Audio with DLNA / AirPlay ^{*4}	•	-	-
	Bluetooth Wireless Technology	•	•	•
	iPod / iPhone Connection ^{*5} / Works with iPhone 5 / iPod touch (5th gen.)	• (Integrated) / •	• (Integrated) / • (SC-PMX7 only)	- / -
SPEAKER SYSTEM	Front	Configuration	3-way 3 speaker system, Bass-reflex	3-way 3 speaker system, Bass-reflex
		Speaker Unit	Woofer: 14cm Cone Type Tweeter: 1.9cm Dome Type High Performance Super Tweeter: 1.2cm Piezo Type	Full Range: 10cm Cone Type
TERMINAL	LAN Terminal	•	-	-
	Analogue Audio Input (AUX)	Pin Jack / 3.5mm Jack	• / -	-
	Headphone Output	•	•	-
TUNER	Band / Station Presets	FM / 30	FM / 30	FM / 30
	RDS / Auto Tuning	•	•	•
	Antenna Terminals (75 ohms)	•	•	•
OTHERS	Power Supply	AC 220~240V, 50Hz	AC 220~240V, 50Hz	AC 220~240V, 50Hz
	Power Consumption	Normal Use / Standby [Approx.]	60W / 0.4W	14W / 0.2W ^{*3}
	Auto Power Off / Dimmer / Programmable Timer	• / • / PLAY/SLEEP	• / • / PLAY/SLEEP	• / • / PLAY/SLEEP
DIMENSIONS, WEIGHT	Main Unit	Dimensions (W x H x D) / Weight	210 x 120 x 266mm / 3.1kg	184 x 123 x 228mm / 1.1kg
	Front Speaker	Dimensions (W x H x D) / Weight	161 x 238 x 264mm / 3.0kg	139 x 224 x 136mm / 1.3kg

^{*1} Playability may vary depending on the content, disc and quality of the recording. ^{*2} For content-recorded disc media from CDs for your personal use. ^{*3} App is available in the App Store. App is available in Google Play. ^{*4} To use the AirPlay function, this unit must join the same network as the compatible device. ^{*5} Not all models are compatible. See dealer for details. ^{*3} Standby (Bluetooth standby on) power consumption approximately 0.3W. Playability may vary depending on the content, disc and quality of the recording. For content recorded for your personal use. Specifications are subject to change without notice. Weight and dimensions are approximate.

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		SC-HC49/49DB	SC-HC39	SC-HC29	SC-HC19
PLAYABLE DISCS	CD, CD-R / -RW ^{*1}	CD-DA / MP3 ^{*2}	•	•	•
AUDIO SYSTEM	Output Channel	2ch	2ch	2ch	2ch
	Power Output (RMS)	Front	20W (1kHz, 8 ohms, 10% THD)	20W (1kHz, 8 ohms, 10% THD)	10W (1kHz, 8 ohms, 10% THD)
		Total Power	40W	40W	20W
USB	Slot / Playback MP3 ^{*2} (USB Standard)	• (USB 2.0 Full Speed)	• (USB 2.0 Full Speed)	• (USB 2.0 Full Speed)	• (USB 2.0 Full Speed)
HIGH-QUALITY SOUND	LincsD-Amp	• (2nd generation)	• (2nd generation)	-	-
	Nano-Sized Bamboo Cone Speaker	•	•	-	-
	Pure Direct Sound System	•	•	•	•
	Bluetooth Re-Master	•	•	•	•
	Preset EQ	4 (Heavy, Clear, Soft, Vocal) + Flat	4 (Heavy, Clear, Soft, Vocal) + Flat	4 (Heavy, Clear, Soft, Vocal) + Flat	4 (Heavy, Clear, Soft, Vocal) + Flat
	Bass & Treble Control / D. Bass	•	•	•	•
SMART NETWORKING	Panasonic Music Streaming App ^{*3}	•	•	•	-
	Bluetooth Wireless Technology / NFC (One-Touch Connection) ^{*4}	•	•	•	-
	Works with iPhone 5 / iPhone 5s / iPhone 5c ^{*5}	•	-	-	-
	USB Connection for iPod / iPhone / iPad ^{*6}	•	-	-	-
DESIGN	Wall-Mountable / Motorized Door for CD	•	•	•	•
	Push Open Door for iPod / iPhone	•	-	-	-
SPEAKER SYSTEM	Front	Configuration	1-way 1 speaker, Dual Passive Radiator	1-way 1 speaker, Dual Passive Radiator	1-way 1 speaker, Bass-reflex
		Speaker Unit [Approx.]	Full Range: 6.5cm Cone Type	Full Range: 6.5cm Cone Type	Full Range: 8cm Cone Type
TERMINAL	Analogue Audio Input (AUX) 3.5mm Jack	-	•	•	-
TUNER	Band / Station Presets	FM / 30 (SC-HC49DB: DAB / 20, DAB+ / 20)	FM / 30	FM / 30	FM / 30
	RDS / Auto Tuning	•	•	•	•
	Antenna Terminals (75 ohms)	•	•	•	•
OTHERS	Power Supply	AC 220~240V, 50Hz	AC 220~240V, 50Hz	AC 220~240V, 50Hz	AC 220~240V, 50Hz
	Power Consumption	Normal Use / Standby ^{*7} [Approx.]	37W / 0.2W ^{*3}	26W / 0.2W ^{*3}	14W / 0.2W
	Auto Power Off / Dimmer / Programmable Timer	• / • / PLAY/SLEEP	• / • / PLAY/SLEEP	• / • / PLAY/SLEEP	• / • / PLAY/SLEEP
DIMENSIONS, WEIGHT	Dimensions (W x H x D) / Weight	500 x 205 x 92mm / 2.5 kg	500 x 205 x 92mm / 2.5kg	400 x 197 x 107mm / 1.9kg	400 x 197 x 107mm / 1.9kg

^{*1} Playability may vary depending on the content, disc and quality of the recording. ^{*2} For content-recorded disc media from CDs for your personal use. ^{*3} App is available in the App Store. App is available in Google Play™. ^{*4} OS Version 4.1 or later, Android device compatible with NFC only. ^{*5} In detail, HC49 / HC49DB works with iPhone 5 / iPhone 5s / iPhone 5c / iPod touch (5th generation) / iPod nano (7th generation). ^{*6} Not all models are compatible. See dealer for details. ^{*7} Bluetooth standby off ^{*8} No device is connected to the USB port or iPhone / iPod Dock before power off. Standby (Bluetooth standby on) power consumption approximately 0.3W. – Specifications are subject to change without notice. Weight and dimensions are approximate.

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SOUNDBARS

			SC-HTB880	SC-HTB680	SC-HTB580	SC-HTB8	SC-HTB170
AUDIO SYSTEM	Output Channel		5.1ch	3.1ch	3.1ch	2ch	2.1ch
	Power Output: Home Cinema Mode (RMS) Total Power		500W	350W	310W	80W	120W
		Front	50W/ch (1kHz, 6 ohms, 10% THD)	70W/ch (1kHz, 6 ohms, 10% THD)	60W/ch (1kHz, 6 ohms, 10% THD)	40W/ch (1kHz, 8 ohms, 10% THD)	30W x 2 (1kHz, 6 ohms, 10% THD)
		Centre	50W (1kHz, 6 ohms, 10% THD)	70W (1kHz, 6 ohms, 10% THD)	60W (1kHz, 6 ohms, 10% THD)	-	30W x 2 (1kHz, 6 ohms, 10% THD)
		Surround	50W/ch (1kHz, 6 ohms, 10% THD)	-	-	-	-
		Subwoofer	250W (100Hz, 8 ohms, 10% THD)	140W (100Hz, 8 ohms, 10% THD)	130W (100Hz, 8 ohms, 10% THD)	-	60W (100Hz, 3 ohms, 10% THD)
		Dolby Digital	•	•	•	-	•
	Dolby Pro Logic II / Dolby Virtual Speaker		•	•	-	•	
	DTS Digital Surround		•	•	-	•	
HIGH-QUALITY PICTURE	FULL HD 3D Compatible		•	•	•	-	•
	1080p Output (x.v.Colour, Deep Colour)		•	•	•	-	•
HIGH-QUALITY SOUND	LincsD-Amp		• (2nd generation)	-	-	-	-
	Clear-mode Dialog		•	•	•	-	•
	Clear Voice		-	-	-	•	-
	Dialog Level Control		•	•	•	-	•
	Multi-angle Speaker Layout		•	•	•	•	•
	aptX Low Latency		•	-	-	-	-
	H.Bass		•	•	•	-	•
	Down Firing Subwoofer		•	•	•	-	-
	Up to 7.1ch Linear PCM Input via HDMI		•	•	•	-	•
EASY OPERATION	4K Signal Pass Through		•	-	-	-	-
	Wireless Subwoofer		•	•	•	-	-
	Auto Gain Control		•	•	•	-	•
	ARC (Audio Return Channel) ¹		•	•	•	-	•
	IR Blaster Included		•	•	•	-	•
	VIERA Link™ (HDAVI Control 5)		•	•	•	-	•
	Wall-Mountable Speaker		•	•	•	•	•
SMART NETWORKING	Bluetooth Wireless Technology		•	•	•	•	•
	Panasonic Music Streaming App ²		•	•	•	•	•
	NFC (One-Touch Connection) ³		•	•	•	-	-
SPEAKER SYSTEM	Front	Configuration	2-way 2 speakers, Bass-reflex	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Passive radiator	2-way 2 speakers, Bass-reflex
		Speaker Unit [Approx.]	Woofer: 6.5cm Cone Type Tweeter: 2.5cm Semi-dome Type	Full Range: 6.5cm Cone Type	Full Range: 6.5cm Cone Type	Full Range: 8cm Cone Type x 2	Full Range: 5.7cm Cone Type x 2 Tweeter: 2.5cm Semi-dome Type x 2
	Centre	Configuration	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex	-	-
		Speaker Unit [Approx.]	Full Range: 6.5cm Cone Type	Full Range: 6.5cm Cone Type	Full Range: 6.5cm Cone Type	-	-
	Surround	Configuration	1-way 1 speaker, Bass-reflex	-	-	-	-
		Speaker Unit [Approx.]	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 2 speakers, Bass-reflex
		Speaker Unit [Approx.]	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	-	Woofer: 8cm Cone Type x 2
TERMINAL	HDMI Output		• [TV]	• [TV]	• [TV]	-	• [TV]
	HDMI Input		• [2] (BD / DVD, AUX)	• [BD / DVD]	• [BD / DVD]	-	• [BD / DVD]
	Digital Audio Input		• [TV]	• [TV]	• [TV]	• [TV]	• [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	Total: Normal Use	33W	36W	34W	20W	22W
		Standby (Bluetooth standby off)	0.49W ⁴	0.48W ⁴	0.49W ⁴	0.5W	0.4W
		Subwoofer: Normal Use	46W	23W	23W	-	-
		Standby (Power switch off)	0.2W ⁵	0.25W ⁵	0.25W ⁵	-	-
	Suitable TV Sizes		50"~	42"~50"	42"~50"	32"~42"	42"~50"
DIMENSIONS, WEIGHT	Front Speaker	Dimensions (W x H x D)	1125 x 51 x 121mm	950 x 53 x 110mm	950 x 53 x 110mm	750 x 65.5 x 118mm	950 x 66 x 105mm
		Weight	3.1kg	2.6kg	2.6kg	2.3kg	3.4kg
	Subwoofer	Dimensions (W x H x D)	180 x 408 x 306mm	180 x 408 x 306mm	180 x 408 x 306mm	-	-
		Weight	5.4kg	5.0kg	5.0kg	-	-

*1 ARC compatible TV is required. *2 Download on the App Store. Download on Google Play™. *3 To use NFC without downloading 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. *4 The other connected devices have to be turned off. Standby (Bluetooth standby on) power consumption approximately 0.3W (HTB880 / HTB680 / HTB580). *5 Standby (Wireless Link is not activated) power consumption approximately 0.4W (HTB880), 1.3W (HTB680 / HTB580). - Specifications are subject to change without notice. Weight and dimensions are approximate.

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SPEAKER BOARDS

		SC-HTE180	SC-HTE80
AUDIO SYSTEM	Output Channel	2.1ch	2.1ch
	Power Output: Home Cinema Mode (RMS) Total Power	120W	120W
	Front / Centre	30W x 2 (1kHz, 6 ohms, 10% THD)	30W x 2 (1kHz, 6 ohms, 10% THD)
	Subwoofer	60W (100Hz, 3 ohms, 10% THD)	60W (100Hz, 3 ohms, 10% THD)
	Dolby Digital	•	•
	Dolby Pro Logic II / Dolby Virtual Speaker	•	•
HIGH-QUALITY PICTURE	FULL HD 3D Compatible	•	•
	1080p Output (x.v.Colour, Deep Colour)	•	•
HIGH-QUALITY SOUND	Clear-mode Dialog	•	•
	Dialog Level Control	•	•
	H.Bass	•	•
	Sound Mode (Standard, Stadium, Music, Cinema, News, Stereo)	•	•
	Up to 7.1ch Linear PCM Input via HDMI	•	•
	Aero Stream Port x 2	•	•
	Dual Integrated Subwoofer	•	•
EASY OPERATION	Auto Gain Control	•	•
	ARC (Audio Return Channel) ¹	•	•
	VIERA Link™ (HDAVI Control 5)	•	•
	Display	FL (Dot matrix)	FL (Dot matrix)
SMART NETWORKING	Bluetooth® Wireless Technology	•	•
	NFC (One-Touch Connection) ²	•	•
	Panasonic Music Streaming App ³	•	•
SPEAKER SYSTEM	Front	Configuration Speaker Unit (Approx.)	1-way 1 speaker, Bass-reflex Full range: 3.8 x 9cm Cone Type x 2
	Subwoofer	Configuration Speaker Unit (Approx.)	1-way 2 speakers, Bass-reflex Woofer: 8cm Cone Type x 2
	Terminal	HDMI Output HDMI Input Optical Input Analogue Audio Input (AUX) Pin Jack	• [TV] • (BD / DVD) • [TV] • [RCA]
			-
OTHERS	Power Supply	AC 220~240V, 50Hz	AC 220~240V, 50Hz
	Power Consumption (Approx.)	Normal Use [Approx.] Standby [Approx.]	27W 0.25W ⁴
	Suitable Screen Sizes	42"~50"	32"~42"
DIMENSIONS, WEIGHT	Dimensions (W x H x D) / Weight	700 x 60 x 365mm / 4.5kg	460 x 60 x 280mm / 3.2kg
	Maximum Loading Weight [Approx.]	50kg	30kg

*1 ARC compatible TV is required. *2 OS Version 4.1 or later, Android device compatible with NFC only. *3 App is available in the App Store. App is available in Google Play. *4 The other connected devices have to be turned off. Standby (Bluetooth standby on) power consumption approximately 1.5W. Specifications are subject to change without notice. Weight and dimensions are approximate.

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HEADPHONES

		RP-BDT10E	RP-HC800E	RP-HX550E	RP-HX350E	RP-HX250E
SPECIFICATIONS	Headphone Type	Bluetooth	Noise Cancelling	Over-Ear Streettype	Over-Ear Streettype	Over-Ear Streettype
	Drive Unit Neodymium	40mm	40mm	40mm	36mm	32 mm
	Impedance	32 ohm/1kHz	32 ohm/1kHz	32 ohm/1kHz	32 ohm/1kHz	32 ohm/1kHz
	Sensitivity	102 dB/mW	106 dB/mW	96 dB/mW	107 dB/mW	104 dB/mW
	Frequency response	9Hz - 24kHz	20Hz - 20kHz	8Hz - 26kHz	9Hz - 25kHz	10Hz - 25kHz
	Cord length	1.5m (detachable)	1.5m (detachable)	1.2m	1.2m	1.2 m
	Without cord	198g	247g	240g	171g	151 g
	Plug 3.5 mm / 6.3mm	• / -	• / - (Airplane Adapt.)	• / -	• / -	• / -
	Nickel / Gold	- / •	- / •	- / •	- / •	- / •

DIGITAL RADIO

		RF-D10
AUDIO SYSTEM	Output Channel	1ch
	Power Output (RMS) Total Power	2W (10% THD)
TUNER	Band / Station Presets	FM / 87.5-108.0 MHz (50kHz step) DAB BANDIII (5A-13F)
	DAB	DAB / DAB+
	FM / RDS	• / • ¹
EASY OPERATION	10 Channel Memory / 5 Preset EQ / DAB Scan ² / Auto Tune Mode	• / • p (Flat / Heavy / Soft / Clear / Vocal) / • / • (for FM)
	Programmable Timer	PLAY/SLEEP
	Battery Level Indication	•
DIMENSIONS, WEIGHT	Dimensions (W x H x D) / Weight	251 x 138 x 91mm / 1.3kg (with batteries), 1kg (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. Weight and dimensions are approximate.



TECHNICAL SPECIFICATIONS

HOME CINEMA SYSTEMS

		SC-BTT885	SC-BTT865	SC-BTT505
PLAYABLE DISCS	BD-ROM	FULL HD 3D / BD-Video	•	•
	BD-RE / BD-RE DL (Ver.3)	JPEG / MPO	•	•
	BD-R / BD-R DL (Ver.2)	Xvid / MKV	•	•
	DVD	DVD-Video	•	•
	DVD-R ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾	DVD-Video / -Recording	•	•
	AVCHD / Xvid / MKV	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)
	FLAC / WAV / WMA / AAC / MP3	• [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 ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾	Video / AVCHD	•	•
	CD, CD-R / CD-RW	CD-DA	•	•
	Xvid / MKV	• [CD-R / -RW]	• [CD-R / -RW]	• [CD-R / -RW]
	FLAC / WAV / WMA / AAC / MP3	• [CD-R / -RW]	• [CD-R / -RW]	• [CD-R / -RW]
AUDIO SYSTEM	JPEG / MPO	• [CD-R / -RW]	• [CD-R / -RW]	• [CD-R / -RW]
	Output Channel	5.1ch	5.1ch	5.1ch
	Power Output:	1200W	1200W	1200W
	Home Cinema Mode (RMS)	Front 200W/ch (1kHz, 3 ohms, 10% THD)	200W/ch (1kHz, 3 ohms, 10% THD)	200W/ch (1kHz, 3 ohms, 10% THD)
		Centre 200W (1kHz, 3 ohms, 10% THD)	200W (1kHz, 3 ohms, 10% THD)	200W (1kHz, 3 ohms, 10% THD)
		Surround 200W/ch (1kHz, 3 ohms, 10% THD)	200W/ch (1kHz, 3 ohms, 10% THD)	200W/ch (1kHz, 3 ohms, 10% THD)
		Subwoofer 200W (55Hz, 3 ohms, 10% THD)	200W (55Hz, 3 ohms, 10% THD)	200W (55Hz, 3 ohms, 10% THD)
	Dolby Digital / Dolby Digital Plus (Dolby TrueHD) / Dolby Pro Logic II	•	•	•
	DTS-HD Master Audio Essential / DTS-HD High Resolution Audio	•	•	•
	Slot	• [2]	• [2]	• [2]
	Front / Rears	For Playback	For Playback	For Playback
HIGH-QUALITY PICTURE	USB Standard	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
	Playback	FLAC / WAV / WMA / AAC / MP3	•	•
		Xvid / MKV / MP4 / MPEG-2 / JPEG / MPO	•	•
	4K Upscaling ³⁾	•	•	•
	2D-3D Conversion / 3D Effect Controller	• [BD / DVD / CD / VOD / USB / NAS]	• [BD / DVD / CD / VOD / USB / NAS]	• [BD / DVD / CD / VOD / USB / NAS]
	Full HD Upsampling	•	•	•
	1080/24p Playback ³⁾ / 1080p Up-Conversion with HDMI	•	•	•
	Deep Colour / x.v.Colour ⁴⁾	•	•	•
	3D Cinema Surround	• [Advanced]	• [Advanced]	• [Advanced]
	LincsD-Amp	• [2nd generation]	• [2nd generation]	• [2nd generation]
	Digital Music Connection for iPod / iPhone	•	•	•
	Powerful Bass-reflex Subwoofer	-	-	-
HIGH-QUALITY SOUND	H.Bass	•	•	•
	EQ / Centre Focus / Subwoofer Level	•	•	•
	Wireless Rear Speakers	• [Included]	• [Included]	• [Ready with Optional Kit ¹⁵⁾
	Smartphone Remote Control ^{15a)}	•	•	•
	Multi-User Mode / Stylish GUI / Wallpaper	•	•	•
	Selectable Speaker Layout (Front Speaker Layout) / ARC ¹⁴⁾	•	•	•
	Easy Settings	•	•	•
	Internet Apps ^{16a)}	•	•	•
	Panasonic Music Streaming App ⁴⁾	•	•	•
	Bluetooth Wireless Technology	•	•	•
	aptX Low Latency	•	•	•
	DLNA (DMP&DMR) / Network Drive Access / BD-Live ^{16b12)}	•	•	•
SMART NETWORKING	NFC (One-Touch Connection) ¹⁸⁾ / Miracast ^{16c17)}	•	•	•
	Wireless LAN System	• [Built-in]	• [Built-in]	• [Built-in]
	External HDD Playback ¹¹⁾	•	•	•
	USB Connection for iPod, iPhone / iPod, iPhone Playback (Music)	• [Integrated] / •	• [Integrated] / •	• [Integrated] / •
	Front	Configuration	2-way 3 speakers, Bass-reflex	2-way 3 speakers, Bass-reflex
	Speaker Unit (Approx.)		Woofer: 8cm Cone Type x 2 Tweeter: 2cm Dome Type	Woofer: 8cm Cone Type x 2 Tweeter: 2cm Dome Type
	Centre	Configuration	2-way 3 speakers, Bass-reflex	2-way 3 speakers, Bass-reflex
	Speaker Unit (Approx.)		Woofer: 6.5cm Cone Type x 2 Tweeter: 2cm Dome Type	Woofer: 6.5cm Cone Type x 2 Tweeter: 2cm Dome Type
	Surround	Configuration	2-way 3 speakers, Bass-reflex	2-way 3 speakers, Bass-reflex
	Speaker Unit (Approx.)		Woofer: 8cm Cone Type x 2 Tweeter: 2cm Dome Type	Woofer: 8cm Cone Type x 2 Tweeter: 2cm Dome Type
	Subwoofer	Configuration	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex
	Speaker Unit (Approx.)		Woofer: 20cm Cone Type	Woofer: 20cm Cone Type
TERMINAL	HDMI Output / Video Output	• / -	• / -	• / -
	HDMI Input / Digital Audio Input	• [2] / •	• [2] / •	• [2] / •
	Music Port	-	-	-
	Analogue Audio Input (AUX)	Pin Jack	•	•
	LAN (Ethernet) Terminal for BD-Live ^{16b12)} , Internet Apps ^{16c17)} , Firmware Update	•	•	•
	Video System	PAL / NTSC	PAL / NTSC	PAL / NTSC
	Power Supply	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz
	Power Consumption	Normal Use / Standby (Approx.) 82W	82W	85W
	Band / Station Presets	FM / 30	FM / 30	FM / 30
	RDS	•	•	•
	Main Unit	Dimensions (W x H x D) / Weight	430 x 65 x 326mm / 2.9kg	430 x 65 x 326mm / 3.0kg
DIMENSIONS, WEIGHT	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾
	Centre Speaker	Dimensions (W x H x D) / Weight	349 x 89 x 94mm / 1.2kg	349 x 89 x 94mm / 1.2kg
	Surround Speaker	Dimensions (W x H x D) / Weight	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾
	Subwoofer	Dimensions (W x H x D) / Weight	258 x 424 x 334mm / 9.0kg	258 x 424 x 334mm / 9.0kg
	Main Unit	Dimensions (W x H x D) / Weight	430 x 65 x 326mm / 2.9kg	430 x 65 x 326mm / 3.0kg
	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾
	Centre Speaker	Dimensions (W x H x D) / Weight	349 x 89 x 94mm / 1.2kg	349 x 89 x 94mm / 1.2kg
	Surround Speaker	Dimensions (W x H x D) / Weight	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾
	Subwoofer	Dimensions (W x H x D) / Weight	258 x 424 x 334mm / 9.0kg	258 x 424 x 334mm / 9.0kg
	Main Unit	Dimensions (W x H x D) / Weight	430 x 65 x 326mm / 2.9kg	430 x 65 x 326mm / 3.0kg
	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾	270 x 1300 x 270mm ¹⁴⁾ / 4.0kg ¹⁴⁾
	Centre Speaker	Dimensions (W x H x D) / Weight	349 x 89 x 94mm / 1.2kg	349 x 89 x 94mm / 1.2kg

*1 Discs recorded and finalized on recording devices. *2 Only Full-HD and SD 24p content can be up-converted for 4K2K resolution. For 4K Upscaling playback a TV with same resolution is required. *3 For BD-ROM/ BD-R and DVD-Video via HDMI. *4 This function is effective only when reproducing AVCHD data recorded with x.v.Colour technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is required. *5 Requires the device with the App installed and the home cinema to be connected to the same home network. *6 Download on the App Store. Download on Google Play¹⁶⁾. *7 Requires broadband Internet service. *8 To use NFC without downloading App, an OS Version 4.1 or later Android¹⁶⁾ 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. *9 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. *10 With the purchase of Wireless LAN Adaptor (W-LAN). *11 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. *12 To enjoy content, you will need to insert an SD card or a USB flash drive (1GB or more of free space / sold separately). Requires broadband Internet service. *13 When the other connected devices are turned off. *14 Full assembly with stand base. - Playability may vary depending on the content, disc and quality of the recording. For content-recorded disc for your personal use. *15 With the purchase of SH-FX82. *16 ARC compatible TV is required. - Specifications are subject to change without notice. Weight and dimensions are approximate.

HOME CINEMA SYSTEMS

		SC-BTT465	SC-BTT405	SC-BTT230	SC-BTT105
PLAYABLE DISCS	BD-ROM	FULL HD 3D / BD-Video	•	•	•
	BD-RE / BD-RE DL (Ver.3)	JPEG / MPO	•	•	•
	BD-R / BD-R DL (Ver.2)	Xvid / MKV	•	•	•
	DVD	DVD-Video	•	•	•
	DVD-R ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾	DVD-Video / DVD-Recording	•	•	•
	AVCHD / Xvid / MKV	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)	• / • ²⁾ / • ²⁾ (*DVD-R / DVD-R DL)
	FLAC / WAV / WMA / AAC / MP3	• [DVD-R / DVD-R DL]	• [DVD-R / DVD-R DL]	• ³⁾ / • ³⁾ / - / - / • ³⁾ (*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 ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾	Video / AVCHD	•	•	•
	CD, CD-R / CD-RW	CD-DA	•	•	•
	Xvid / MKV	• [CD-R / -RW]	• [CD-R / -RW]	•	• [CD-R / -RW]
	FLAC / WAV / WMA / AAC / MP3	• [CD-R / -RW]	• [CD-R / -RW]	• / • [DVD-R / DVD-R DL] / - / - / •	• [CD-R / -RW]
AUDIO SYSTEM	JPEG / MPO	• [CD-R / -RW]	• [CD-R / -RW]	•	• [CD-R / -RW]
	Output Channel	5.1ch	5.1ch	2.1ch	2.1ch
	Power Output:	1000W	600W	320W	300W
	Home Cinema Mode (RMS)	Front 167W/ch (1kHz, 4 ohms, 30% THD)	100W/ch (1kHz, 4 ohms, 30% THD)	60W x 2 (1kHz, 3 ohms, 10% THD)	100W/ch (1kHz, 4 ohms, 30% THD)
		Centre 167W (1kHz, 4 ohms, 30% THD)	100W (1kHz, 4 ohms, 30% THD)	-	-
		Surround 167W/ch (1kHz, 4 ohms, 30% THD)	100W/ch (1kHz, 4 ohms, 30% THD)	-	-
		Subwoofer 167W (55Hz, 4 ohms, 30% THD)	100W (55Hz, 4 ohms, 30% THD)	200W (100Hz, 3 ohms, 10% THD)	100W (55Hz, 4 ohms, 30% THD)
	Dolby Digital / Dolby Digital Plus (Dolby TrueHD) / Dolby Pro Logic II	• / • / •	• / • / •	• / • / •	• / • / -
	DTS-HD Master Audio Essential / DTS-HD High Resolution Audio	•	•	•	•
	Slot	•	•	• [2]	•
	Front / Rears	For Playback / -	For Playback / -	For Playback / For Communication Camera only	For Playback / -
HIGH-QUALITY PICTURE	USB Standard	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
	Playback	FLAC / WAV / WMA / AAC / MP3	•	• / • / - / - / •	•
		Xvid / MKV / MP4 / MPEG-2 / JPEG / MPO	•	•	•
	Built-in 4K (Ultra HD) Upscaling ²⁾	-	-	-	-
	2D-3D Conversion / 3D Effect Controller	-	-	• [BD / DVD / CD / SD Memory Card / VOD / USB / NAS]	-
	Full HD Upsampling	•	•	•	•
	1080/24p Playback ³⁾ / 1080p Up-Conversion with HDMI	•	•	•	•
	Deep Colour / x.v.Colour ⁴⁾	•	•	•	•
	3D Cinema Surround	-	-	2.1ch Cinema Surround Plus	-
	LincsD-Amp	-	-	•	-
	Digital Music Connection for iPod / iPhone	-	-	•	-
	Powerful Bass-reflex Subwoofer	•	•	-	•
HIGH-QUALITY SOUND	H.Bass	-	-	-	-
	EQ / Centre Focus / Subwoofer Level	•	•	•	•
	Wireless Rear Speakers	-	-	-	-
	Smartphone Remote Control ^{15a)}	•	•	•	•
	Multi-User Mode / Stylish GUI / Wallpaper	•	•	•	•
	Selectable Speaker Layout (Front Speaker Layout) / ARC	• / •	• / •	- •	- / •
	Easy Settings	•	•	•	•
	Internet Apps ^{16a)}	• [Simple]	• [Simple]	•	• [Simple]
	Panasonic Music Streaming App ⁴⁾	•	•	•	•
	Bluetooth Wireless Technology	•	•	-	•
	aptX Low Latency	-	-	-	-
	DLNA (DMP&DMR) / Network Drive Access / BD-Live ^{16b12)}	- / • / •	- / • / •	• / • / •	- / • / •
SMART NETWORKING	NFC (One-Touch Connection) ¹⁸⁾ / Miracast ^{16c17)}	• / -	• / -	• / -	• / -
	Wireless LAN System	Capable with Optional Adaptor ¹⁸⁾	Capable with Optional Adaptor ¹⁸⁾	• [Built-in]	Capable with Optional Adaptor ¹⁸⁾
	External HDD Playback ¹¹⁾	•	•	•	•
	USB Connection for iPod, iPhone / iPod, iPhone Playback (Music)	• / -	• / -	• [Integrated] / • [Music only]	- / -
	Front	Configuration	2-way 2 speakers, Bass-reflex	2-way 2 speakers, Bass-reflex	3-way 3 speakers, Bass-reflex
	Speaker Unit (Approx.)		Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type	Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type	Tweeter: 2.5cm Semi-Dome Type, Super Tweeter: Piezo Type, Woofer: 5.7cm Cone Type
	Centre	Configuration	2-way 3 speakers, Bass-reflex	2-way 3 speakers, Bass-reflex	-
	Speaker Unit (Approx.)		Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type x 2	Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type x 2	-
	Surround	Configuration	2-way 2 speakers, Bass-reflex	2-way 2 speakers, Bass-reflex	-
	Speaker Unit (Approx.)		Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type	Full Range: 6.5cm Cone Type Super Tweeter: Piezo Type	-
	Subwoofer	Configuration	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex	1-way 1 speaker, Bass-reflex
	Speaker Unit (Approx.)		Woofer: 16cm Cone Type	Woofer: 16cm Cone Type	Woofer: 16cm Cone Type
TERMINAL	HDMI Output / Video Output	• / •	• / -	• / -	• / -
	HDMI Input / Digital Audio Input	- / •	- / •	• [2] / •	- / •
	Music Port	-	-	-	-
	Analogue Audio Input (AUX)	Pin Jack	•	• [RCA]	•
	LAN (Ethernet) Terminal F, BD-Live ^{16b12)} , Internet Apps ^{16c17)} , Firmware Update	• [Internet Apps: Simple] ¹⁷⁾	• [Internet Apps: Simple] ¹⁷⁾	•	• [Internet Apps: Simple] ¹⁷⁾
	Video System	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
	Power Consumption	Normal Use / Standby (Approx.) 89W / 0.5W	64W / 0.5W	89W / 0.1W	46W / 0.5W
	Band / Station Presets	FM / 30	FM / 30	FM / 30	FM / 30
	RDS	•	•	•	•
	Main Unit	Dimensions (W x H x D) / Weight	430 x 55 x 322mm / 2.7kg	460 x 38.7 x 279.3mm / 2.7kg	430 x 55 x 322mm / 2.6kg
DIMENSIONS, WEIGHT	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1181 x 270mm ¹⁴⁾ / 2.7kg ¹⁴⁾	83 x 141 x 75mm / 0.5kg	83 x 141 x 75mm / 0.5kg
	Centre Speaker	Dimensions (W x H x D) / Weight	304 x 87 x 77mm / 0.7kg	304 x 87 x 77mm / 0.7kg	- / -
	Surround Speaker	Dimensions (W x H x D) / Weight	83 x 141 x 75mm / 0.5kg	83 x 141 x 75mm / 0.5kg	- / -
	Subwoofer	Dimensions (W x H x D) / Weight	156 x 290 x 263mm / 3.4kg	156 x 290 x 263mm / 3.4kg	180 x 408 x 300 mm / 4.3kg
	Main Unit	Dimensions (W x H x D) / Weight	430 x 55 x 322mm / 2.7kg	430 x 55 x 322mm / 2.6kg	430 x 55 x 322mm / 2.6kg
	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1181 x 270mm ¹⁴⁾ / 2.7kg ¹⁴⁾	83 x 141 x 75mm / 0.5kg	83 x 141 x 75mm / 0.5kg
	Centre Speaker	Dimensions (W x H x D) / Weight	304 x 87 x 77mm / 0.7kg	304 x 87 x 77mm / 0.7kg	- / -
	Surround Speaker	Dimensions (W x H x D) / Weight	83 x 141 x 75mm / 0.5kg	83 x 141 x 75mm / 0.5kg	- / -
	Subwoofer	Dimensions (W x H x D) / Weight	156 x 290 x 263mm / 3.4kg	156 x 290 x 263mm / 3.4kg	180 x 408 x 300 mm / 4.3kg
	Main Unit	Dimensions (W x H x D) / Weight	430 x 55 x 322mm / 2.7kg	430 x 55 x 322mm / 2.6kg	430 x 55 x 322mm / 2.6kg
	Front Speaker	Dimensions (W x H x D) / Weight	270 x 1181 x 270mm ¹⁴⁾ / 2.7kg ¹⁴⁾	83 x 141 x 75mm / 0.5kg	83 x 141 x 75mm / 0.5kg
	Centre Speaker	Dimensions (W x H x D) / Weight	304 x 87 x 77mm / 0.7kg	304 x 87 x 77mm / 0.7kg	- / -

** Vertical Placement with stand, Horizontal Placement for Wall-Mount: 1062 x 68 x 41mm / 1.49kg. TRADEMARK NOTICE: Blu-ray Disc, Blu-ray and the logos are trademarks of the Blu-ray Disc Association. AVCHD and the AVCHD logo are trademarks of Panasonic Corporation and Sony Corporation. DLNA, the DLNA Logo and DLNA CERTIFIED are trademarks, service marks, or certification marks of the Digital Living Network Alliance. 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. Other trademarks and trade names are those of their respective owners. aptX software is copyright CSR plc or its group companies. All rights reserved. The aptX mark and the aptX logo are trademarks of CSR plc or one of its group companies and may be registered in one or more jurisdictions. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. DTS, DTS-HD, the Symbol & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play and Android are trademarks of Google Inc. Miracast is a mark or registered mark of the Wi-Fi Alliance. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. iPhone, and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.



3D BLU-RAY DISC™ RECORDER WITH HDD [EG/EB]

		DMR-BST835, DMR-BCT835	DMR-BST735/BST730, DMR-BCT735/BCT730
PLAYABLE DISCS	BD-ROM BD-RE / BD-RE DL (Ver. 2.1) BD-R (Ver.1.3 / LTH Type Ver.1.3) / BD-R DL (Ver.1.3) Xvid / MKV DVD / DVD-RAM DVD-Video / DVD-Video Rec. / AVCHD / JPEG / MP0 DVD-R ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾ AVCHD / MP3 / Xvid / MKV / JPEG / MP0 DVD-R ¹⁾ / DVD+R DL ¹⁾ / DVD+RW ¹⁾ CD / CD-R / CD-RW	FULL HD 3D / BD-Video JPEG / MP0 Xvid / MKV DVD-Video / DVD-Video Rec. / AVCHD / JPEG / MP0 DVD-Video / DVD-Video Recording AVCHD / MP3 / Xvid / MKV / JPEG / MP0 Video / AVCHD CD-DA / MP3 / Xvid / MKV / JPEG / MP0	• • • • • / •* (*DVD-RW) • / •* / •* / •* / •* (*DVD-R / DVD-R DL) • •
RECORDABLE DISCS	BD-R, BD-R DL BD-RE, BD-RE DL DVD-RAM DVD-R / DVD-R DL DVD-RW DVD-R / DVD+R DL DVD-RW	Ver.1.3 and lower Ver.2.1 Ver.2.2 and lower (Except Ver.1.0) Ver.2.1 and lower (Except Ver.1.0) / Ver.3 Ver.1.2 and lower (Except Ver.1.0) Ver.1.3 and lower / Ver.1.1 and lower Ver.1.2 and lower	• 6x max. speed, 6x max. speed (LTH type) • 2x max. speed • 5x max. speed • 16x max. speed / • 8x max. speed • 6x max. speed • 16x max. speed / • 8x max. speed • 4x max. speed
RECORDING FORMAT	BD-RE, BD-RE DL / BD-R, BD-R DL DVD-RAM / DVD-R, DVD-R DL, DVD-RW Built-in Hard Disk Capacity	Blu-ray Disc Rewritable Format / Recordable Format DVD-Video Recording Format / DVD-Video Format ²⁾ 1TB*	Blu-ray Disc Rewritable Format / Recordable Format DVD-Video Recording Format / DVD-Video Format ²⁾ 500GB*
RECORDING TIME	Hard Disk Drive 25GB BD-RE / BD-R 50GB BD-RE DL / BD-R DL 4.7GB DVD-RAM / DVD-R/RW/R+/RW 8.5GB DVD-R DL / DVD+R DL Disc 9.4GB DVD-RAM	DR Mode [Approx.] HG / HX / HE / HL / HM Mode [Approx.] XP / SP / LP / EP Mode [Approx.] DR Mode [Approx.] HG / HX / HE / HL / HM Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.]	HD (14Mbps) ³⁾ : 150h / SD (5Mbps) ³⁾ : 422h 157h / 117h / 176h / 235h / 472h / 684h 215h / 431h / 862h / 1293h (1724h) HD (14Mbps) ³⁾ : 3h 30min / SD (5Mbps) ³⁾ : 10h 15min 4h / 6h / 9h / 12h / 17h 30m 5h 15m / 10h 30m / 21h / 31h 30m (42h) HD (14Mbps) ³⁾ : 7h 30min / SD (5Mbps) ³⁾ : 21h 8h / 12h / 18h / 24h / 35h 10h 30m / 21h / 42h / 63h (84h) 1h / 2h / 4h / 6h (8h) 1h 45m / 3h 35m / 7h 10m / 10h 45m (14h 20m) 2h / 4h / 8h / 12h (16h)
AUDIO SYSTEM	Dolby Digital Plus / Dolby TrueHD / DTS-HD Master Audio / DTS-HD High Resolution Audio DTS-HD Master Audio / DTS-HD High Resolution Audio	Decode and Bitstream Output ³⁾ Decode and Bitstream Output ³⁾	Decode and Bitstream Output ³⁾ Decode and Bitstream Output ³⁾
SD MEMORY CARD	Compatible Media Playback Transfer	SD / SDHC / SDXC • AVCHD, AVCHD 3D Progressive, JPEG, MP0 AVCHD, AVCHD 4D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0	SD / SDHC / SDXC • AVCHD, AVCHD 3D Progressive, JPEG, MP0 AVCHD, AVCHD 4D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0
USB	Slot (2) Playback Transfer	Front / Rear Mass Storage External HDD Broadcast Stream Mass Storage to HDD to BD-RE / BD-R to DVD-RAM / from BD-RE, from HDD / DVD-RAM	• / • (USB 2.0 High Speed) • • • • AVCHD, AVCHD 3D Progressive, JPEG, MP0, MP3 AVCHD, AVCHD 4D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0
HIGH-QUALITY PICTURE	4K Upscaling ⁷⁾ / Adaptive Chroma Processing 2D-3D Conversion, 3D Effect Controller Full HD Upsampling / 1080/24p Playback ⁸⁾	• • [BD / DVD / CD / SD Memory Card / VOD / USB] •	• • [BD / DVD / CD / SD Memory Card / VOD / USB] •
HIGH-QUALITY SOUND	Pure Sound Mode / 96kHz Surround Re-Master ⁹⁾ / Audio D/A Converter (192kHz/24bit)	•	•
EASY OPERATION	Record 2 HD Programmes Simultaneously Quick Operation – Direct Navigator / EPG / Disc Tray Opening VIERA Link (HDAVI Control 5) Rewind Live TV / Pause Live TV / Direct TV Rec / Radio, TV Auto Scene Chapter 60 Sec Skip & 10 Sec Back / LAST VIEW	• • • • • [MPEG-2, Dolby Digital] •	• • • • • [MPEG-2, Dolby Digital] •
SMART NETWORKING	Smart Link with Smartphone or Tablet / Remote Recording Service ¹¹⁾⁽¹²⁾ (DIGA Player App ¹¹⁾) Multi-room TV Streaming / Extra Storage with External HDD Miracast ¹⁰⁾⁽¹³⁾ / Internet Apps ¹⁰⁾⁽¹²⁾ Compatible with FULL HD 3D Camcorder / Image Sharing from LUMIX ¹⁴⁾ Wireless LAN System / DLNA	• • • • • [Built-in] / • (As server and client)	• • • • • [Built-in] / • (As server and client)
TERMINAL	HDMI Output / Coaxial Output / Optical Output / Analogue Audio Output Euro SCART Input / LAN (Ethernet) Terminal Common Interface Slot	• • [AV2] / • • [2] ¹⁵⁾	• • [AV2] / • • [2] ¹⁵⁾
TUNER	Tuner System Channel Coverage	DMR-BST835: DVB-S, DVB-S2 / DMR-BCT835: DVB-C, DVB-T DMR-BST835: – / DMR-BCT835: VHF: 5-12, UHF: 21-69	DMR-BST735/730: DVB-S, DVB-S2 / DMR-BCT735/730: DVB-C, DVB-T DMR-BST735/730: – / DMR-BCT735/730: VHF: 5-12, UHF: 21-69
OTHERS	Video Recording System Audio Recording System Power Supply Power Consumption Standby (Quick Start Off, RF OUT [Aerial Signal] Off) [Approx.] Standby (Quick Start On, Power Save for Network Standby On) [Approx.]	MPEG-2 (Hybrid VBR), MPEG-4 AVC/H.264 Dolby Digital AC 220–240V, 50Hz 59W (DMR-BCT835: 37W) 0.2W 4W	MPEG-2 (Hybrid VBR), MPEG-4 AVC/H.264 Dolby Digital AC 220–240V, 50Hz 56W (DMR-BCT735/730: 34W) 0.2W 4W
DIMENSIONS, WEIGHT	Main Unit Dimensions (W x H x D) ¹⁶⁾ / Weight	430 x 66 x 238mm / 3.3kg	430 x 59 x 238mm / 2.9kg

*1 Discs recorded and finalised on recording devices. *2 It is compatible to a DVD-Video format after finalised. *3 The bit rates are approximate. Recording time of DR mode may vary depending on bit rate of broadcasting. *4 HDMI connection required. *5 Motion pictures encoded in the MPEG-2 format, which have been taken by a Panasonic digital video camera with HDD, etc. can be copied from the camera's HDD to this unit's HDD or DVD-RAM. *7 For 4K Upscaling playback a TV with same resolution is required. *8 For BD-ROM / BD-R via HDMI. *9 Sampling frequency is set to 88.2kHz at CD playback. *10 App is available in the App Store. App is available in Google Play. *11 Requires browser in PC, smartphone or tablet. *12 Requires broadband Internet service. *13 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. *14 The LUMIX camera must support DLNA (DMR) function. *15 Compliant with CEN/LEC EN 50221: February, 1997. *16 Excluding the projecting parts. *17 Transfer is possible from SD Memory Card and USB flash memory to HDD. After transfer to HDD is completed, playback becomes possible. *18 Transfer is possible from SD Memory Card and USB flash memory to DVD-RAM disc. After transfer to DVD-RAM disc is completed, playback becomes possible. *19 Recorder's Web Browser doesn't support flash and some character sets (e.g. Chinese). Some features of websites may not be available on the Web Browser. *20 With the purchase of Wireless LAN Adaptor DW-WLS. # Usable capacity will be less. – Specifications are subject to change without notice. Weight and dimensions are approximate.

		DMR-BWT745	DMR-BWT640
PLAYABLE DISCS	BD-ROM BD-RE / BD-RE DL (Ver. 2.1) BD-R (Ver.1.3 / LTH Type Ver.1.3) / BD-R DL (Ver.1.3) Xvid / MKV DVD / DVD-RAM DVD-Video / DVD-Video Rec. / AVCHD / JPEG / MP0 DVD-R ¹⁾ / DVD-R DL ¹⁾ / DVD-RW ¹⁾ AVCHD / Xvid / MKV / MP3 / JPEG / MP0 DVD-R ¹⁾ / DVD+R DL ¹⁾ / DVD+RW ¹⁾ CD / CD-R / CD-RW	FULL HD 3D / BD-Video JPEG / MP0 Xvid / MKV DVD-Video / DVD-Video Rec. / AVCHD / JPEG / MP0 DVD-Video / DVD-Video Recording AVCHD / Xvid / MKV / MP3 / JPEG / MP0 Video / AVCHD CD-DA / MP3 / Xvid / MKV / JPEG / MP0	• • • • • / •* (*DVD-RW) • / •* / •* / •* / •* (*DVD-R / DVD-R DL) • •
RECORDABLE DISCS	BD-R, BD-R DL BD-RE, BD-RE DL DVD-RAM DVD-R / DVD-R DL DVD-RW DVD-R / DVD+R DL DVD-RW	Ver.1.3 and lower Ver.2.1 Ver.2.2 and lower (Except Ver.1.0) Ver.2.1 and lower (Except Ver.1.0) / Ver.3 Ver.1.2 and lower (Except Ver.1.0) Ver.1.3 and lower / Ver.1.1 and lower Ver.1.2 and lower	• 6x max. speed, 6x max. speed (LTH type) • 2x max. speed • 5x max. speed • 16x max. speed / • 8x max. speed • 6x max. speed • 16x max. speed / • 8x max. speed • 4x max. speed
RECORDING FORMAT	BD-RE, BD-RE DL / BD-R, BD-R DL DVD-RAM / DVD-R, DVD-R DL DVD-RW Built-in Hard Disk Capacity	Blu-ray Disc Rewritable Format / Recordable Format DVD-Video Rec. Format / DVD-Video Format ²⁾ , AVCHD Format DVD-Video Format ²⁾ 500 GB#	Blu-ray Disc Rewritable Format / Recordable Format DVD-Video Rec. Format / DVD-Video Format ²⁾ , AVCHD Format DVD-Video Format ²⁾ 250 GB#
RECORDING TIME	Hard Disk Drive 25 GB BD-RE / BD-R 50 GB BD-RE DL / BD-R DL 4.7 GB DVD-RAM / DVD-R/RW/R+/RW 8.5 GB DVD-R DL / DVD-R DL Disc 9.4 GB DVD-RAM	DR Mode [Approx.] HG / HX / HE / HL / HM Mode [Approx.] XP / SP / LP / EP Mode [Approx.] DR Mode [Approx.] HG / HX / HE / HL / HM Mode [Approx.] XP / SP / LP / EP Mode [Approx.] DR Mode [Approx.] HG / HX / HE / HL / HM Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.] XP / SP / LP / EP Mode [Approx.]	HD (8 Mbps) ³⁾ : 129h / SD (4 Mbps) ³⁾ : 258h 78h / 117h / 176h / 235h / 341h 107h / 215h / 430h / 860h HD (8 Mbps) ³⁾ : 6h 30min / SD (4 Mbps) ³⁾ : 13h 4h / 6h / 9h / 12h / 17h 30m 5h 15m / 10h 30m / 21h / 42h HD (8 Mbps) ³⁾ : 13h / SD (4 Mbps) ³⁾ : 26h 8h / 12h / 18h / 24h / 35h 10h 30m / 21h / 42h / 84h 1h / 2h / 4h / 8h 1h 45m / 3h 35m / 7h 10m / 14h 20m 2h / 4h / 8h / 16h
AUDIO SYSTEM	Dolby Digital Plus / Dolby TrueHD / DTS-HD Master Audio / DTS-HD High Resolution Audio	Decode and Bitstream Output ³⁾	Decode and Bitstream Output ³⁾
SD MEMORY CARD	Compatible Media Playback Transfer	SD / SDHC / SDXC • AVCHD, AVCHD 3D Progressive, JPEG, MP0 AVCHD, AVCHD 3D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0	SD / SDHC / SDXC • AVCHD, AVCHD 3D Progressive, JPEG, MP0 AVCHD, AVCHD 3D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0
USB	Slot (2) Playback Transfer	Front / Rear Mass Storage External HDD Broadcast Stream Mass Strage to HDD to BD-RE / BD-R to DVD-RAM / from BD-RE, from HDD / DVD-RAM	• / • (USB 2.0 High Speed) • • • • AVCHD, AVCHD 3D Progressive, JPEG, MP0, MP3 AVCHD, AVCHD 3D Progressive, JPEG (BD-RE), MP0 (BD-RE) JPEG, MP0
HIGH-QUALITY PICTURE	4K Upscaling ⁷⁾ / Adaptive Chroma Processing 2D-3D Conversion / 3D Effect Controller Full HD Upsampling / 1080/24p Playback ⁸⁾ / Deep Colour	• • •	• • •
HIGH-QUALITY SOUND	Pure Sound Mode / 96kHz Surround Re-Master ⁹⁾ / Audio D/A Converter	•	•
EASY OPERATION	Record 2 HD Programmes Simultaneously Quick Operation – Direct Navigator / EPG / Disc Tray Opening Smooth Moving GUI VIERA Link (HDAVI Control 5) Pause Live TV & Rewind Live TV / Radio, TV Auto Scene Chapter 60 Sec Skip & 10 Sec Back / LAST VIEW	• • • • • [MPEG-2, Dolby Digital, Dolby Digital Plus] •	- • • • • [MPEG-2, Dolby Digital, Dolby Digital Plus] •
SMART NETWORKING	Multi-room TV Streaming / Remote Recording ¹¹⁾⁽¹²⁾ (DIGA Player App ¹⁰⁾) Web Browser ¹⁸⁾ Extra Storage with External HDD Miracast ¹⁰⁾⁽¹³⁾ / Internet Apps ¹⁰⁾⁽¹²⁾ Compatible with FULL HD 3D Camcorder / Image Sharing from LUMIX ¹⁴⁾ Wireless LAN System DLNA	• / • • • • • • [Built-in] MKV / Xvid AAC / FLAC / WAV / WMA / MP3	- / • • • • • Capable with Optional Adaptor ^{*20)} MKV / Xvid AAC / FLAC / WAV / WMA / MP3
TERMINAL	HDMI Output / Coaxial Output / Digital Audio Output / Analogue Audio Output Euro SCART Input / LAN (Ethernet) Terminal	• / • / • / • • [PAL / NTSC / SECAM-Input] / •	• / • / • / - - / •
TUNER	Tuner System Channel Coverage	DVB-T VHF: 5-12, UHF: 21-69	DVB-T VHF: 5-12, UHF: 21-69
OTHERS	Video Recording System Audio Recording System Power Supply Power Consumption Standby (Quick Start Off, RF OUT [Aerial Signal] Off) [Approx.] Standby (Quick Start On, Power Save for Network Standby On) [Approx.]	MPEG-2 (Hybrid VBR), MPEG-4 AVC/H.264 Dolby Digital, Dolby Digital Plus, HE-AAC, MPEG AC 220–240V, 50Hz 29W 0.2W 6W	MPEG-2 (Hybrid VBR), MPEG-4 AVC/H.264 Dolby Digital, Dolby Digital Plus, HE-AAC, MPEG AC 220–240V, 50Hz 25W 0.2W 4W
DIMENSIONS, WEIGHT	Main Unit Dimensions (W x H x D) ¹⁶⁾ / Weight	430 x 59 x 238 mm / 2.9 kg	430 x 59 x 238 mm / 2.9kg

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3D BLU-RAY DISC™ PLAYER [EG/EF/EB]

		DMP-BDT700	DMP-BDT500	DMP-BBT01	DMP-BDT460	DMP-BDT360/361	DMP-BDT260	DMP-BDT160/161	DMP-BD81
PLAYABLE DISCS	BD-ROM	FULL HD 3D / BD-Video	•	•	•	•	•	•	- / •
	BD-RE / BD-RE DL (Ver.3)	JPEG / MP0	•	•	•	•	•	•	• / -
	BD-R / BD-R DL (Ver.2)	Xvid / MKV	•	- / •	•	•	•	•	•
	DVD	DVD-Video	•	•	•	•	•	•	•
	DVD-R™ / DVD-R DL™ / DVD-RW™	DVD-Video / DVD-Video Recording	•	•	•	•	•	•	•
	AVCHD / Xvid / 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)
	FLAC / WAV / 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)
	WMA / AAC	• (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 / MP0	•	• (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 +RW™ Video / AVCHD	•	•	•	•	•	•	•	•
	CD, CD-R / CD-RW	CD-DA	•	•	•	•	•	•	•
	Xvid / MKV	•	- / •	- / •	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)
	FLAC / WAV / MP3	•	•	•	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)
	WMA / AAC	•	-	-	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)
	JPEG / MP0	•	•	•	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW)	• (CD-R / -RW) / -
AUDIO SYSTEM	Dolby Digital / Dolby TrueHD	• Decode and Bitstream Output*2	• Decode and Bitstream Output**2	• Decode and Bitstream Output‡	• Decode and Bitstream Output‡	• Decode (5.1ch) and Bitstream Output*2	• Decode (2ch) and Bitstream Output*2	• Decode (2ch) and Bitstream Output‡	• Decode (2ch) and Bitstream Output*2
	Dolby Digital Plus	• Decode and Bitstream Output*2	•	•	• Decode and Bitstream Output‡	-	-	-	-
	DTS-HD Master Audio Essential / DTS-HD High Resolution Audio	• Decode and Bitstream Output‡	• Decode and Bitstream Output*2	• Decode and Bitstream Output‡	• Decode and Bitstream Output‡	• Decode and Bitstream Output*2	• Decode and Bitstream Output‡	• Decode and Bitstream Output*2	• Decode and Bitstream Output‡
SD MEMORY CARD	Slot	•	•	•	•	-	-	-	-
	Compatible Media	SD / SDHC / SDXC	SD / SDHC / SDXC	SD / SDHC / SDXC	SD / SDHC / SDXC	-	-	-	-
	Playback	JPEG / MP0	•	•	•	-	-	-	-
		AVCHD	•	•	•	-	-	-	-
USB		MP4	•	•	•	-	-	-	-
	Slot	•	• (2)	•	• (2)	• (2)	•	•	•
	Front	•	For Playback	For Playback and Communication Camera	For Playback	For Playback	For Playback	For Playback	For Playback
	Rear	-	For Communication Camera only	-	-	-	-	-	-
	USB Standard	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	• (USB 2.0 High Speed)	USB 2.0 High Speed
	Playback	FLAC / WAV / WMA / AAC / MP3	• / - / - / - / •	• / - / - / - / •	•	•	•	•	•
HIGH-QUALITY PICTURE		Xvid / MKV / MP4 / MPEG-2	•	•	•	•	•	•	•
		JPEG / MP0	•	•	•	•	•	•	• / -
	4K Upscaling**4	•	-	-	•	•	-	-	-
	4K Upscaling**4	60p / 50p / 4:4:4 (HDMI2.0)**13	•	-	-	-	-	-	-
		24p / 25p	•	-	-	-	-	-	-
	4K Direct Chroma Upscaling‡	•	-	-	•	•	-	-	-
	4K JPEG Playback‡	•	-	-	•	•	-	-	-
	4K 60p Output	•	-	-	-	-	-	-	-
	Picture Type Preset	• (Cinema / Fine Cinema / Retro Cinema / Anime / Music Live)	-	-	-	-	-	-	-
	Video on Demand in HD Quality	•	-	-	•	•	•	•	•
	2D-3D Conversion	•	•	•	•	•	-	-	-
	3D Effect Controller	•	•	•	•	•	•	•	-
	Deep Colour	•	•	•	•	•	•	•	•
	x.v.Colour**5	•	•	•	•	•	•	•	•
HIGH-QUALITY SOUND	Twin HDMI	•	•	-	•	-	-	-	-
	Pure Audio on HDMI	•	-	-	-	-	-	-	-
	HDMI Low Clock Jitter Process	•	-	-	-	-	-	-	-
	High-Quality Network Audio Playback (DLNA)	• (FLAC / WAV / WMA / AAC / MP3)	•	•	• (FLAC / WAV / WMA / AAC / MP3)	• (FLAC / WAV / WMA / AAC / MP3)	• (FLAC / WAV / WMA / AAC / MP3)	• (FLAC / WAV / WMA / AAC / MP3)	• (FLAC / WAV / WMA / AAC / MP3)
	High Clarity Sound	• (Premium)	• (Plus)	• (Plus)	-	-	-	-	-
	Digital Tube Sound	• (192kHz/96kHz)	•	•	-	-	-	-	-
	Audio D/A Converter	• (192kHz/32bit)	• (192kHz/32bit)	-	-	-	-	-	-
	Analog 7.1ch Output	•	•	-	-	-	-	-	-
EASY OPERATION	Surround Re-Master**6	• (192kHz/96kHz)	•	•	-	-	-	-	-
	Web Browser	•	-	-	•	•	-	-	-
SMART NETWORKING	Multi-User Mode / Stylish GUI / Wallpaper	•	•	•	•	•	•	•	•
	Miracast**7	•	-	-	•	•	-	-	-
	Internet Apps**8	•	•	•	•	•	-	-	-
	Wireless LAN System	• (Built-in)	• (Built-in)	• (Built-in)	• (Built-in)	• (Built-in)	• (Simple)	• (Simple)	• (Simple)
	DLNA (Client & Renderer)	•	•	•	•	•	• (Built-in)	Capable with Optional Adaptor**9	Capable with Optional Adaptor**9
	External HDD Playback**10	•	•	•	•	•	•	•	-
	Network Drive Access	•	•	•	•	•	•	•	-
TERMINAL	BD-Live**11	•	•	•	•	•	•	•	•
	HDMI Output	• (2)	• (2)	•	• (2)	•	•	•	•
	Video Output	-	•	-	-	-	-	-	-
	Optical Output	•	-	-	-	-	-	-	-
	Digital Audio Output	•	•	•	•	•	-	-	-
	Coaxial Output	•	•	-	-	-	-	-	-
	Analog Audio Output	LR / 7.1ch	7.1ch / 2.1ch+5ch	-	-	-	-	-	-
	LAN (Ethernet) Terminal for DLNA, BD-Live**11, Internet Apps**8 and Firmware Update	•	•	•	•	•	• (Internet Apps™: Simple)**7	• (Internet Apps™: Simple)**7	• (Internet Apps™: Simple)**7
OTHERS	Video System	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 100-240V, 50/60Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz
	Power Consumption [Approx.]	21W	12W	8.9W	18W	18W	14W	14W	14W
	Standby	0.2W	0.2W	0.5W	0.5W	0.5W	0.5W	0.5W	0.5W
	Network Standby Quick Start On	6W	4.7W	4W	6W	5.5W	4W	4W	4W
DIMENSIONS, WEIGHT	Dimensions (W x H x D)**12 / Weight	446 x 68 x 245mm / 2.8kg	430 x 59 x 239mm / 2.6kg	179 x 27 x 179mm / 0.9kg	415 x 43 x 182mm / 1.2kg	415 x 43 x 182mm / 1.2kg	312 x 43 x 180mm / 1.0kg	312 x 43 x 180mm / 1.0kg	312 x 43 x 18mm / 1.0kg

*1 Discs recorded and finalised on recording devices. *2 HDMI connection required. *3 For 4K Upscaling playback a TV with same resolution is required. *4 Only Full HD and SD 24p content can be up-converted for 4K2K resolution. *5 This function is effective only when reproducing AVCHD data recorded with x.v.Colour technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is required. *6 CD sampling is done at 88.2kHz. MP3 data can be re-mastered only on CD. *7 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. *8 Requires broadband Internet service. *9 With the purchase of Wireless LAN Adaptor GH-WL5. *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 USB flash drive (1GB or more of free space, sold separately). Requires broadband Internet service. *12 Excluding the projecting parts and the pedestal. *13 To enjoy 4K / 60p images, high speed HDMI cables supporting 18 Gb/s bandwidth are required. - Playability may vary depending on the content, disc and quality of the recording. For content recorded for your personal use. - Specifications are subject to change without notice. Weight and dimensions are approximate.

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AT A GLANCE: ICONS & LOGOS EXPLAINED

4K ULTRA HD TV

4K ULTRA HD: The new breed of Panasonic 4K Ultra HD TVs carry 3840x2160 pixels, which is four times as many as current Full HD. This means their pictures contain four times as much resolution, with an impact on picture quality that has to be seen to be believed.

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

Web Browser 4K: 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.

Hexa-Processing Engine PRO: Ultra-fast and powerful, Hexa-Processing Engine PRO leverages a cutting-edge HEVC decoder to provide next-generation, high-efficiency video coding with improved compression. The result is a thrilling VIERA experience with absolutely breathtaking images.

4K Online Player: So you have superb images of online videos and websites in high 4K resolution. 4K Online Player directly streams 4K online content using a built-in 4K video decoder.

4K Media Player: The renowned Media Player is now available with VIERA 4K Ultra HD TVs. It lets you easily enjoy your personal multimedia entertainment stored on any USB memory device.

THX 4K Display: With VIERA panels featuring THX 4K Display, you can be sure of experiencing the original image quality of a movie just as the film-makers intended – in spectacular 4K. These VIERA TVs have cleared the high standards for 4K set by the THX® Certified Display Programme.

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.

4K 50/60p Input: Based on HDMI 2.0 and Display Port™ 1.2a specifications, this input terminal accepts super-high-resolution 4K signals in outstanding high quality, with a higher frame rate capability.

Studio Master Colour: Experience more vivid viewing thanks to amazing colour gradations and brightness. It's possible with Studio Master Colour. The high-colour-space LED panel construction reproduces colours faithful to the original, for vividly colourful images from a wide colour gamut.

2000Hz BLS 4K IFC: This motion engine combines a powerful panel and Intelligent Frame Creation interpolation processing with backlight scanning to deliver cleaner, smoother and sharper 4K Ultra HD pictures from any source.

4K JPEG Playback: 4K JPEG Playback is essential for enjoying personal images on a large 4K screen in ultra-high 4K quality.

4K Swipe & Share: This free, updated iOS/Android Panasonic TV Remote 2 App lets you share photos stored on a compatible mobile device in full 4K resolution by 'swiping' them towards the TV.

4K Studio Master Drive: To seamlessly complement your 4K viewing experience, 4K Ultra HD VIERA TVs also feature 4K Studio Master Drive. It unites Super Chroma Drive and Black Gradation Drive to deliver accurate colour expression and smooth low-brightness gradation for vivid, intricate brightness and darks like never before.

TECHNOLOGY

VIERA: The name for the Panasonic range of high-quality TVs. VIERA is known around the world for amazing picture quality and easy-to-use features that make your home entertainment experience better than ever.

IPS LED: Panasonic LED panels employ the latest liquid crystal material, with higher light output and a highly efficient LED backlight – resulting in super-low power consumption without compromising picture quality or features.

Full HD: Full High Definition (HD) offers an amazing resolution of 1920x1080 - in contrast, PAL offers 720x576 and NTSC 720x480. This means you can enjoy Full HD programmes and films with sharp, dynamic images and brilliant colour.

EASY OPERATION

my Home Screen: With the Panasonic my Home Screen feature, you can customise the start-up screen of your VIERA 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.

my Stream: A wide variety of media – such as TV programmes, video on demand and Internet content – is seamlessly and automatically recommended to you by this intuitive interface. Via the Favourite button on the Touch Pad Remote, the TV conveniently learns your entertainment preferences.

my Home Cloud: From downloading home screens and apps to storing data, the Panasonic my Home Cloud gives you access via the VIERA TV to a wide variety of content and apps as well as an online shop for purchasing TV accessories.

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 VIERA app goes a step further, letting you swipe and store your media from your smartphone to the TV.

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 VIERA TV simply from Android™ or Apple-based smartphones.

Game Mode: VIERA TVs come equipped with Game Mode. This smart feature speeds up the TV's image processing on the screen so you have a clear, fast-moving picture with every game. Enjoy sharp real-time gaming – where what you play is what you see.

Info Bar: The Info Bar automatically displays useful information, quickly as you walk by the TV. A proximity sensor, coupled with Face Recognition via the built-in camera, instantly calls up handy information on the TV, such as the weather forecast, messages, notifications and a clock.

TV Anywhere: Enjoy your favourite multimedia content wherever you are. The VIERA TV streams live broadcasts or recorded content stored on a USB HDD to your mobile device.

Touch Pad Remote: The newest VIERA TVs come supplied with a stylish Touch Pad Remote. Intuitive and robust, it also enables Voice Interaction and Voice Print for logging into my Stream and gaining access to your personal content. At the press of the Favourite button, you can give your 'thumbs up' to the programme you like.

Voice Assistant: With Voice Assistant, voice operation is virtually just like talking. It enables you to quickly search through desired content. At the same time, Voiceprint Recognition makes the log-in procedure simple and fast

Voice Guidance: VIERA 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 elderly people.

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.

SMART NETWORKING

Twin HD Tuner: With the Twin HD Tuner - either for satellite, cable or antenna hook-up - you can watch a TV show and zap at the same time, watch one show while recording another, or swipe the show to your tablet and watch something else on the TV.

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 VIERA TVs can be wirelessly connected to your home network. So you can take advantage of Internet Apps and DLNA networking throughout your home.

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 networking throughout your home.

Web Browser: The Web Browser will soon become one of your favourite functions. That's because it lets you easily browse the Internet – on the TV. And it features the Bookmark Launcher, which lets you navigate through up to 27 bookmarked website thumbnails.

USB HDD Recording: Thanks to this function, available with many new cutting-edge VIERA 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.

Built-In Camera: The ideal complement to premium and high-end VIERA TVs, the Built-In Camera conveniently and automatically pops up when you receive a Skype video call on the TV so you can immediately begin to talk. It also works with Face Recognition to enable Info Bar functionality.

SDXC: With the SDXC Memory Card up to 64GB, you can view high-resolution movies, photos and AVCHD files via your home cinema set-up or VIERA TV featuring an SD Memory Card slot.

3D Passive Eyewear: Invite a friend over for a movie night and enjoy Hollywood blockbusters in amazing 3D. High-quality VIERA TVs featuring passive 3D rendering come with two 3D Passive Eyewear products.

3D Active Eyewear: The range of cutting-edge VIERA TVs featuring active 3D rendering comes with two 3D Active Shutter Eyewear products.

Media Player: To give you the full range of sharing options, all VIERA TVs feature the must-have Media Player. Just slot your USB memory device into the TV's dedicated port and the Media Player automatically starts up - so you can easily play back and view your multimedia entertainment.

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.

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.

Twin HDMI: With Twin HDMI, one signal output is exclusively dedicated to audio, so 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.

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.

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.

Social Networking: Share your thoughts while watching television at the same time. When your VIERA is connected to the Internet, Social Networking TV lets you access programmes like talent shows and chat about them simultaneously on Facebook or Twitter, or video chat with your mate while watching a live match.

Miracast™ / Display mirroring*: This functionality uses Wi-Fi Direct technology to transfer content from a Wi-Fi device for playing back on a TV – even without a Wi-Fi access point.

*Functionality support depending on Android hardware and operating system version.

HIGH-QUALITY PICTURE

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 VIERA LED TV featuring 3D rendering and you'll get brilliant 3D entertainment with HD image quality.

Advanced Colour Spectrum: With Advanced Colour Spectrum, you can enjoy a great viewing experience, with brilliant colour gradations. This is thanks to cutting-edge LED panel technology, which reproduces colours vividly over a larger colour spectrum.

THX Display: With VIERA panels featuring THX Display, you can be sure of experiencing the original image quality of a movie just as the film-makers intended. These VIERA TVs have cleared the high standards set by the THX® Certified Display Programme.

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

2D-3D Conversion: To turn any 2D content into exciting 3D entertainment, all models and Panasonic players and recorders feature the 2D-3D Conversion function, letting you enjoy your entire Blu-ray Disc® or DVD movie collection, or even your favourite TV programmes, with the exciting feeling of 3D.

Local Dimming: To ensure robust blacks and delicate gradation with any film genre, a select range of VIERA TVs feature Local Dimming or Local Dimming PRO. 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.



ICON GLOSSARY

Processing Engine		Hexa-Processing Engine: The high-speed Hexa-Processing Engine by Panasonic leverages a total of six processing units to deliver an amazing VIERA experience. You'll not only notice the vivid colours – you'll also become immersed in the on-screen action.		Dual-Core: The Dual Core central processing unit (CPU) ensures the TV panel reproduces great picture quality and is equipped to handle Smart features, with seamless functionality.
		Content Optimizer: So you have beautiful pictures from virtually any source, VIERA TVs employ Content Optimizer. This high-performance engine leverages any number of enhancement features – refining a variety of images, broadcasts and websites as well as virtually all kinds of sources to provide excellent picture quality.		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.
				Vreal PRO: Ensures state-of-the-art picture rendering at enormously fast speeds for brilliant, high-resolution entertainment.
Advanced Features		Studio Master Drive: To seamlessly complement your intense Full HD viewing experience, some high-end VIERA TVs also feature Studio Master Drive. It unites Super Chroma Drive and Black Gradation Drive to deliver accurate colour expression and smooth low-brightness gradation for vivid, intricate brightness and darks like never before.		Advanced Viewing Angle: Because not everyone can sit right in front of the TV at the same time, VIERA IPS LED TVs provide a 178° wide viewing angle so that friends and family sitting to the side can comfortably watch programmes and blockbuster films in all their vivid colour and brightness.
		1080P Pure Direct: HDMI normally compresses the incoming broadcast signal and then the TV reproduces the picture, with less-than-ideal results. 1080P Pure Direct does not compress the colour signal, so the picture quality remains sharp and crisp.		
Contrast / Filter		Supreme Contrast: Several high-end VIERA 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.		High Contrast: VIERA 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.
		Brilliant Contrast: To give you great contrast with bright images, deep black levels and low power consumption, many VIERA TVs feature Brilliant Contrast. It combines innovative panel and LED backlight technologies for an immersive home cinema viewing experience.		
Motion (Hz)		1800Hz BLS IFC: Excellent picture rendering is yours with 1800Hz BLS Intelligent Frame Creation (IFC), available with high-end VIERA TVs. This advanced LED technology features enhanced high-speed drive performance so you can enjoy smooth images of sports or action scenes.		100Hz BLB: VIERA TVs featuring 100Hz BLB motion technology ensure your favourite films, games and TV programmes boast great motion sharpness for clear moving images.
		1200Hz BLS IFC: With a VIERA TV featuring 1200Hz BLS Intelligent Frame Creation (IFC), you are assured smooth, jitter-free reproduction of fast motion images. This drive technology combines intelligent scanning with enhanced high-speed drive performance to provide outstanding sports or action movies.		

HIGH-QUALITY SOUND

	VR-Audio Pro Surround 2.1: The innovative slim speaker system built into a host of cutting-edge VIERA TVs gives an outstanding boost to every film and music genre, with rich bass reproduction. Front firing technology, Digital Signal Processing and the Panasonic Sound Lifting Driver deliver a spatial sound impression.		aptX®: Developed for video content and gaming, aptX Low Latency provides seamless audio-video synchronisation when transmitted via Bluetooth® A2DP, offering a latency time of 32 milliseconds.
	VR-Audio True Surround: The advanced VR-Audio True Surround system gives the effect of a multi-channel system from only two speakers – to completely envelope you in a surround sound sensation.		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.
	V-Audio: Using an analogue-based algorithm, V-Audio achieves a left-right directional sound space for an excellent listening experience.		Clear-mode Dialog: Gives sound greater depth and makes voices sound like they're coming from the centre of the screen. The dialogue volume is adjustable to 4 levels, which is great for hearing clear dialogue over the surround sound.
	XBS Master: Short for Extra Bass System, XBS Master is a Panasonic-unique, high-quality sound technology for even more powerful bass sound without distortion.		LincsD-Amp: Based on MASH noise-shaping technology, LincsD-Amp markedly reduces jitter and sound distortion that can affect audio clarity – producing pure, brilliant sound.

DESIGN

	Super narrow Bezel: So you can focus more on the film or programme you're watching, all Panasonic VIERA TVs feature a Super Narrow Bezel. Not only does it make your viewing experience more expansive, this design also perfectly harmonises with a premium home media centre.
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ECO

	Eco Navigation: Easily adjust a host of energy-saving functions, such as Intelligent Auto Standby and Eco Mode. Eco Navigation enables you to save even more energy while enjoying brilliant images.		Eco Mode: When Eco Mode is activated, a photo sensor measures the ambient light conditions in the room, and then the picture settings are automatically adjusted. As a result, the TV uses less power in dim lighting – without any deterioration in image quality.
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