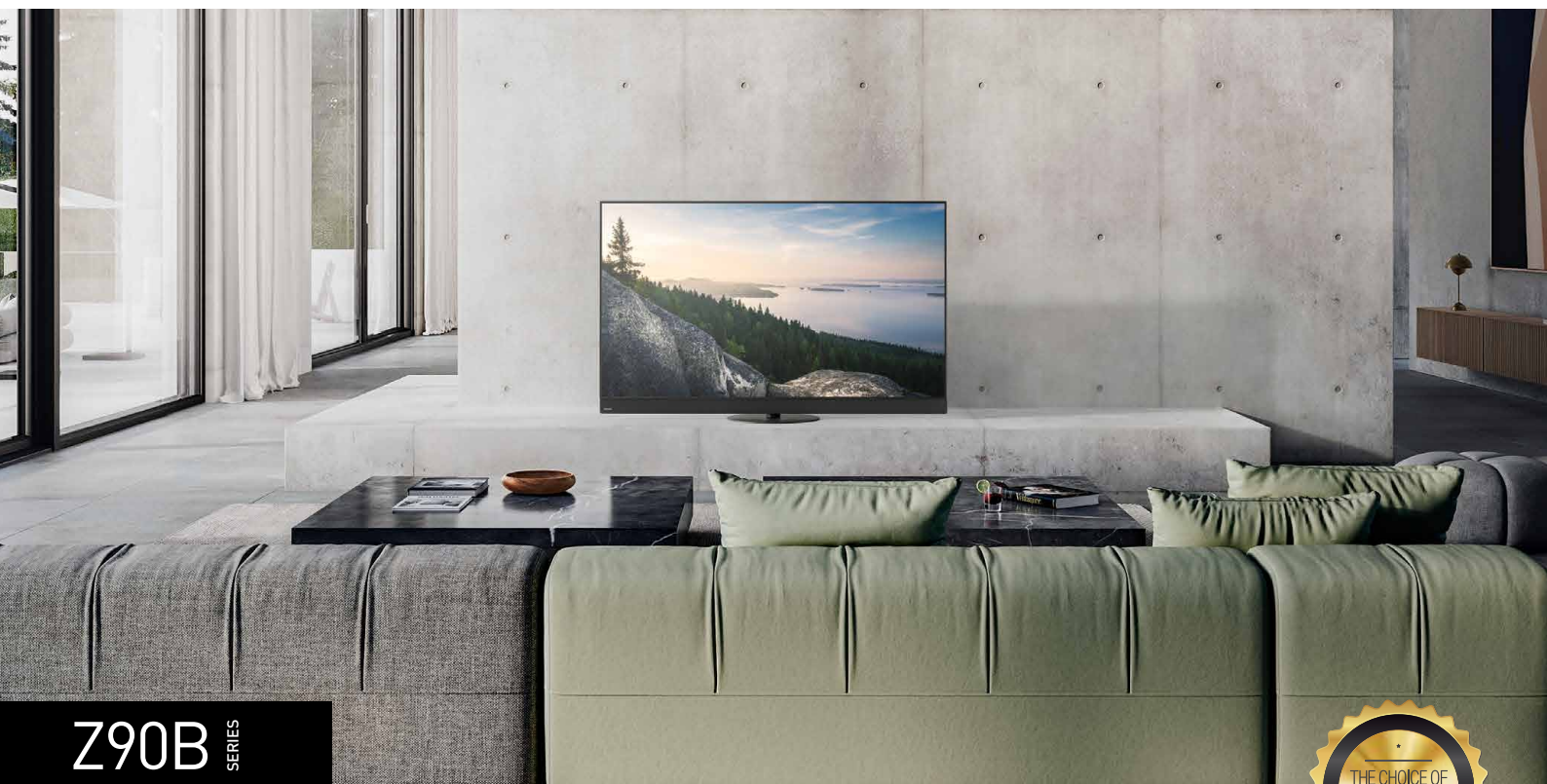




Z90B SERIES



Fire TV with stellar picture quality and sound to liven up cinema and gaming

ALL IN ONE OLED EXPERIENCE

77"	TV-77Z90BE6A / 195cm EAN 5025232995943
65"	TV-65Z90BE6A / 164cm EAN 5025232995950
55"	TV-55Z90BE6A / 139cm EAN 5025232995967
48"	TV-48Z90BE6A / 121cm EAN 5025232995974
42"	TV-42Z90BE6A / 106cm EAN 5025232995981

The Z90 Series 4K OLED Fire TV delivers vivid pictures with a master OLED screen and supremely detailed and powerful sound with Dynamic Cinema Surround Pro. Game Mode Extreme and support for HDMI 2.1 connectivity allows for a seamless gaming experience.

Panasonic TV Premium / Fire TV built-in for intuitive usability with personalized content recommendation

OLED 4K TV with individually illuminated cells, to create natural colour and high contrast – where black, really is black

HX Pro AI Processor MK II – Class-leading colour, contrast, clarity and Auto AI mode

Dynamic Theater Surround Pro – Premium home cinema designed with Dolby Atmos®

Game Mode Extreme – Stunning speed, resolution and motion with 144Hz, HFR and VRR

¹⁾ 77" / 65" / 55": Master OLED Pro,
48" / 42": OLED



HX
PRO AI
MK II



DYNAMIC
THEATER
SURROUND
PRO



Tuned by
Technics



144Hz
REFRESH RATE



AMD
FreeSync
Premium



HDR
ADAPTIVE



fire tv



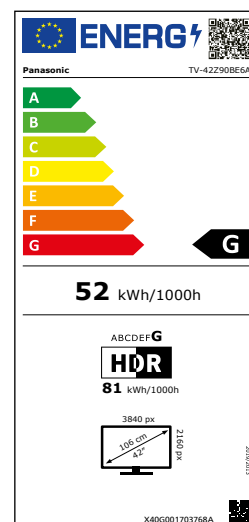
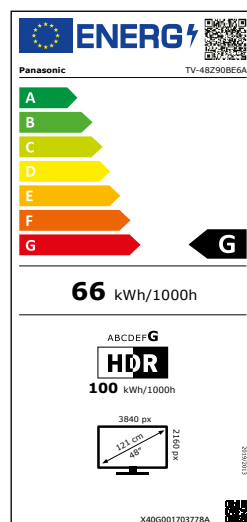
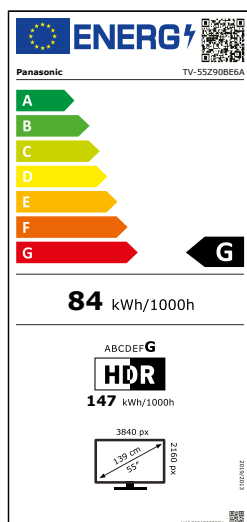
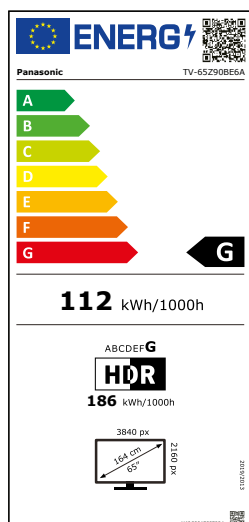
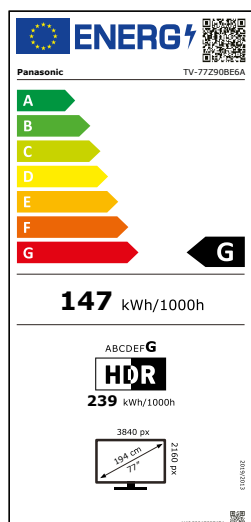
Hands-free | alexa



4K ULTRA
HD

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		TV-77Z90BE6A	TV-65Z90BE6A	TV-55Z90BE6A	TV-48Z90BE6A	TV-43Z90BE6A
Picture	Panel Technology	4K OLED / Master OLED Pro	4K OLED / Master OLED Pro	4K OLED / Master OLED Pro	4K OLED	4K OLED
	Resolution (W x H)	4K Ultra HD / 3.840 x 2.160	4K Ultra HD / 3.840 x 2.160	4K Ultra HD / 3.840 x 2.160	4K Ultra HD / 3.840 x 2.160	4K Ultra HD / 3.840 x 2.160
	Panel Refresh Rate	Up to 144Hz	Up to 144Hz	Up to 144Hz	Up to 144Hz	Up to 144Hz
	Smooth Motion Drive Pro	•	•	•	•	•
	Multi HDR Support*2	HDR10+ Adaptive / HDR10 / HLG / Dolby Vision IQ	HDR10+ Adaptive / HDR10 / HLG / Dolby Vision IQ	HDR10+ Adaptive / HDR10 / HLG / Dolby Vision IQ	HDR10+ Adaptive / HDR10 / HLG / Dolby Vision IQ	HDR10+ Adaptive / HDR10 / HLG / Dolby Vision IQ
	Dimming / Contrast	OLED / Ultimate Contrast	OLED / Ultimate Contrast	OLED / Ultimate Contrast	OLED / Ultimate Contrast	OLED / Ultimate Contrast
	Colour Space	Wide Colour Spectrum	Wide Colour Spectrum	Wide Colour Spectrum	Wide Colour Spectrum	Wide Colour Spectrum
	Dolby Vision IQ	•	•	•	•	•
	HDR10+ Adaptive	•	•	•	•	•
	Filmmaker Mode	• (with Intelligent Sensing)	• (with Intelligent Sensing)	• (with Intelligent Sensing)	• (with Intelligent Sensing)	• (with Intelligent Sensing)
	Processor/Engine	HXC Pro AI Processor MKII	HXC Pro AI Processor MKII	HXC Pro AI Processor MKII	HXC Pro AI Processor MKII	HXC Pro AI Processor MKII
	Auto AI for Picture	•	•	•	•	•
Sound	Picture Mode	Auto AI / Dynamic / Normal / Cinema / True Cinema / FILMMAKER / Custom / Professional 1 / Professional 2 / Sport / Game / True Game / Dolby Vision (Vivid / IQ / Dark / Game) / Netflix Adaptive Calibrated Mode / Prime Video Calibrated Mode				
	isf Mode	•	•	•	•	•
	Calman READY	•	•	•	•	•
	Dolby Atmos	•	•	•	•	•
	Surround	Dynamic Theater Surround Pro	Dynamic Theater Surround Pro	Dynamic Theater Surround Pro	Dynamic Theater Surround Pro	Dynamic Theater Surround Pro
	Speaker Output	60W (Front: 15W x2 + Woofer: 30W) + Mono Woofer with Passive Radiator x2	60W (Front: 15W x2 + Woofer: 30W) + Mono Woofer with Passive Radiator x2	60W (Front: 15W x2 + Woofer: 30W) + Mono Woofer with Passive Radiator x2	60W (Front: 15W x2 + Woofer: 30W) + Mono Woofer with Passive Radiator x2	60W (Front: 15W x2 + Woofer: 30W) + Mono Woofer with Passive Radiator x2
	Auto AI for Sound	•	•	•	•	•
	Sound Mode	Auto AI / Standard / Music / Speech / Stadium / FPS / RPG / User	Auto AI / Standard / Music / Speech / Stadium / FPS / RPG / User	Auto AI / Standard / Music / Speech / Stadium / FPS / RPG / User	Auto AI / Standard / Music / Speech / Stadium / FPS / RPG / User	Auto AI / Standard / Music / Speech / Stadium / FPS / RPG / User
	Smart Features*1	Fire TV	Fire TV	Fire TV	Fire TV	Fire TV
	Google Assistant*3 Built-in	—	—	—	—	—
	Works with Google Assistant	—	—	—	—	—
	Alexa Built-in*4	• (Hands-free)	• (Hands-free)	• (Hands-free)	• (Hands-free)	• (Hands-free)
Smart Features*1	Works with Alexa	•	•	•	•	•
	Fire TV Ambient Mode	•	•	•	•	•
	Apple AirPlay*5	•	•	•	•	•
	Apple Home*5	•	•	•	•	•
	Home Network*6	• (Client)	• (Client)	• (Client)	• (Client)	• (Client)
	IP Home Control	—	—	—	—	—
	In-House TV Streaming (SATIP / DVB-IP)	• (Server / Client)	• (Server / Client)	• (Server / Client)	• (Server / Client)	• (Server / Client)
	Mirroring / Chromecast built-in	Mirroring	Mirroring	Mirroring	Mirroring	Mirroring
	Media Player	*17	*17	*17	*17	*17
	Game Mode	• Game Mode Extreme with Upgraded Game Control Board • (Up to 144Hz)	• Game Mode Extreme with Upgraded Game Control Board • (Up to 144Hz)	• Game Mode Extreme with Upgraded Game Control Board • (Up to 144Hz)	• Game Mode Extreme with Upgraded Game Control Board • (Up to 144Hz)	• Game Mode Extreme with Upgraded Game Control Board • (Up to 144Hz)
	HDMI 2.1 VRR Support	•	•	•	•	•
	HDMI 2.1 HFR Support	•	•	•	•	•
Gaming	AMD Freesync Premium*7	•	•	•	•	•
	G-Sync Compatible*8	•	•	•	•	•
	Wireless LAN Built-in*9	•	•	•	•	•
	Bluetooth*10	•	•	•	•	•
	Bluetooth Audio Link*11	•	•	•	•	•
	HID / HOGP (Keyboard/Mouse)	A2DP (Stereo Audio: In/Out)	A2DP (Stereo Audio: In/Out)	A2DP (Stereo Audio: In/Out)	A2DP (Stereo Audio: In/Out)	A2DP (Stereo Audio: In/Out)
	Terminal	4 (side: 4) • (HDCP2.3)	4 (side: 4) • (HDCP2.3)	4 (side: 4) • (HDCP2.3)	4 (side: 4) • (HDCP2.3)	4 (side: 4) • (HDCP2.3)
	HDMI 2.1 Support Feature	eARC (Enhanced Audio Return Channel) <Input 2 >; ALLM (Auto Low Latency Mode) <All inputs>; VRR (Variable Refresh Rate) <input 1 & 2>; 4K HFR (High Frame Rate) <input 1 & 2>; AMD Freesync Premium <input 1 & 2>; G-Sync Compatible <input 1 & 2>				
	HDMI Signal Power Link	•	•	•	•	•
	USB	3 (2 side, 1 bottom; USB 3.0 x1, USB 2.0 x2)	3 (2 side, 1 bottom; USB 3.0 x1, USB 2.0 x2)	3 (2 side, 1 bottom; USB 3.0 x1, USB 2.0 x2)	3 (1 side, 2 bottom; USB 3.0 x1, USB 2.0 x2)	3 (1 side, 2 bottom; USB 3.0 x1, USB 2.0 x2)
	Ethernet	1	1	1	1	1
	CI (Common Interface)	1 (CI Plus, Version 1.4, ECP)	1 (CI Plus, Version 1.4, ECP)	1 (CI Plus, Version 1.4, ECP)	1 (CI Plus, Version 1.4, ECP)	1 (CI Plus, Version 1.4, ECP)
Broadcasting	Analog Video Input	—	—	—	—	—
	Component Video Input shared w. Composite	—	—	—	—	—
	Digital Audio Output (Optical)	1 (bottom)	1 (bottom)	1 (bottom)	1 (bottom)	1 (bottom)
	Digital Audio Output (Coax)	—	—	—	—	—
	PC input (VGA) + PC Audio In	—	—	—	—	—
	Headphone Output	1 (bottom); switchable to Subwoofer	1 (bottom); switchable to Subwoofer	1 (bottom); switchable to Subwoofer	1 (bottom); switchable to Subwoofer	1 (bottom); switchable to Subwoofer
	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	DVB-T / T2 / DVB-S2 / DVB-C	DVB-T / T2 / DVB-S2 / DVB-C
	Analog Tuner	—	—	—	—	—
	Data Broadcasting	Hbb TV	Hbb TV	Hbb TV	Hbb TV	Hbb TV
	USB-HDD Recording*13	•	•	•	•	•
	Multi Window	2T PAP	2T PAP	2T PAP	2T PAP	2T PAP
	HDAVI Control	•	•	•	•	•
Design	Voice Guidance	•	•	•	•	•
	EPG	•	•	•	•	•
	On Screen Display Menu Languages	27 Languages*18	27 Languages*18	27 Languages*18	27 Languages*18	27 Languages*18
	Twin Tuner	•	•	•	•	•
	Design	—	Swivel Design	Swivel Design	—	—
	Suppliers Trademark	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
	Model ID	TV-77Z90BE6A	TV-65Z90BE6A	TV-55Z90BE6A	TV-48Z90BE6A	TV-42Z90BE6A
	Energy Efficiency Class	SDR: G; HDR: G	SDR: G; HDR: G	SDR: G; HDR: G	SDR: G; HDR: G	SDR: G; HDR: G
	Visible Screen Size (diagonal)	195cm / 77 inches	164cm / 65 inches	139cm / 55 inches	121cm / 48 inches	106cm / 42 inches
	On mode Average Power Consumption*14	SDR: 147kWh / 1000h; HDR: 239kWh / 1000h	SDR: 112kWh / 1000h; HDR: 186kWh / 1000h	SDR: 84kWh / 1000h; HDR: 147kWh / 1000h	SDR: 66kWh / 1000h; HDR: 100kWh / 1000h	SDR: 52kWh / 1000h; HDR: 81kWh / 1000h
	Standby Power Consumption	0.5W	0.5W	0.5W	0.5W	0.5W
	Off mode Power Consumption	—	—	—	—	—
Energy Data	Screen Resolution	3.840 x 2.160	3.840 x 2.160	3.840 x 2.160	3.840 x 2.160	3.840 x 2.160
	Power Supply	AC 220–240V, 50/60Hz	AC 220–240V, 50/60Hz	AC 220–240V, 50/60Hz	AC 220–240V, 50/60Hz	AC 220–240V, 50/60Hz
	Rated Power Consumption	740W	527W	403W	275W	226W
	Ambient Sensor (CATS)	•	•	•	•	•
	Included Accessory*15	TV Remote	TV Remote	TV Remote	TV Remote	TV Remote
	Dimensions (W x H x D) (w/o stand)	1.723 x 1.048 x 68mm	1.444 x 892 x 58mm	1.225 x 769 x 58mm	1.069 x 680 x 58mm	933 x 603 x 57mm
	Dimensions (W x H x D) (with stand)*16	1.723 x 1.076 x 350mm	1.444 x 910 x 348mm	1.225 x 787 x 348mm	1.069 x 714 x 300mm	933 x 637 x 300mm
	Weight (w/o stand)	39.5kg	25.5kg	18.5kg	15.5kg	14.0kg
	Weight (with stand)	46.5kg	30.0kg	23.0kg	21.0kg	19.5kg
	Dimension Pedestal (W x D)	500 x 350mm	388 x 348mm	388 x 348mm	508 x 300mm	508 x 300mm
	VESA Compatible	•	•	•	•	•
	VESA Dimension (W x H)	400 x 300mm	300 x 300 mm	300 x 300mm	300 x 300 mm	300 x 300mm
General	Outer Boxed Unit (W x H x D)	2.130 x 1.180 x 282mm	1.810 x 1.035 x 250mm	1.590 x 886 x 228mm	1.460 x 785 x 225mm	1.268 x 715 x 225mm
	Total Boxed Weight	60.0kg	42.0kg	31.0 kg	27.0 kg	25.0 kg



LEGAL NOTES

- *1 Features and specifications are subject to change without prior notification. Internet connection is required with smart functions. To enable all function above, please update and use the latest software.
- *2 All models: Supporting HDR does not increase the peak brightness capabilities of the TV panel.
Full HD & HD models: The ability to send a non 4K HDR signal via HDMI depends fully on the playback device. The majority of 4K Blu-ray discs require HDCP2.2 on TV to play back HDR. Please check the HDCP version of HDMI inputs. Not all HDR contents are guaranteed to be enjoyed on the TV.
- *3 Google TV is the name of this device's software experience and a trademark of Google LLC. Google and Google Cast are trademarks of Google LLC. Google Assistant is not available in certain languages and countries.
- *4 Amazon, Alexa is not available in certain languages and countries. Requires internet connection. Subscriptions for services may be required. Amazon, Fire, Alexa and all related marks are trademarks of Amazon.com, Inc. or its affiliates.
- *5 Apple, AirPlay, and HomeKit are trademarks of Apple Inc., registered in the U.S. and other countries and regions. The Works with Apple Home badge is a trademark of Apple Inc.
- *6 File formats that are not supported by your Network Contents server (DLNA compatible server, etc.) cannot be played.
- *7 ©2024 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.
- *8 ©2021 NVIDIA, the NVIDIA logo, and NVIDIA G-SYNC are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.
- *9 In case the password of the registered device or user is known by a third party, there is a risk of unauthorized entries. Keep your password safe. Panasonic will make no warranty for the unauthorized entries. To prevent a risk of interception, unauthorized entries and hacking, set up the proper security settings (encryption setting).

- *10 HID (Human Interface Device Profile) compliant keyboards are available. A2DP (Advanced Audio Distribution Profile) compliant audio devices are available. The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license.
- *11 When a Bluetooth device is connected to the TV, it is possible that the Bluetooth audio output may not be synchronized (i.e. be delayed) with relation to the images on the screen. This is not a defect of the TV or the device. The delay time will differ depending on the device.
- *12 The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
- *13 This feature requires a USB hard drive or flash drive with a capacity of at least 160 GB. Broadcast from TV-IP cannot be recorded.
- *14 Based on (EU) 2019/2021 transitional measurement method.
- *15 Not all the accessories are listed here.
- *16 Dimension with recommended pedestal style.
- *17 To playback HDR, a HDR source is required (H.264 or H.265 (ST2084 or HLG format)).
- *18 27 Languages (English / German / Italian / Spanish / French / Danish / Finnish / Swedish / Dutch / Hungarian / Czech / Romanian / Bulgarian / Polish / Norwegian / Estonian / Latvian / Lithuanian / Portuguese / Turkish / Greek / Croatian / Slovak / Slovenian / Serbian / Russian / Macedonian)