

## 65" HX650 4K HDR Android TV TH-65HX650K – Google Assistant & Chromecast

Picture Quality	Display	Panel	4K ULTRA HD LED LCD
		Bright Panel	SUPER BRIGHT PANEL
		Wide Viewing Angle	Y
		Screen Resolution	3,840 (W) x 2,160 (H)
		Panel Drive	DLED - Vivid Digital Pro
		Picture Mode	Vivid / Standard / Sport / User / Movie
		Advanced Video Processor/Engine	—
		Hexa Chroma Drive	—
		4K Upscaling	Y
		Ultra HD Premium* <sup>1</sup>	—
		Multi HDR Support* <sup>2</sup>	HDR10/Dolby Vision
		Dolby Vision IQ	—
		Filmmaker Mode	—
		HDR Brightness Enhancer	—
		Dynamic HDR Effect	—
		Local Dimming	—
		Backlight Dimming	Y
		4K Pure Direct	—
isf Mode	—		

Sound Quality	Dolby Atmos	—
	Surround	Dolby Audio / DTS Truesurround
	Speaker Output	20 W (10 W x 2)
	Sound Mode	Standard / Music / Sport / Movie
Smart Features	Smart TV	Android TV
	Voice Guidance	Y
	Voice Personal Assistant	Google Assistant
	Works with Google Assistant* <sup>3</sup>	—
	Works with Alexa* <sup>4</sup>	—
	EPG	Y
	On Screen Display Menu Languages	41 Languages*
	Wireless LAN Built-in	Y
	TV Anytime* <sup>5</sup>	—
	USB-HDD Recording* <sup>6</sup>	—
	Panasonic TV Remote Apps	—
	Swipe & Share	—
	Internet Apps	Y
	Web Browser* <sup>7</sup>	Y
	Hbb TV	—
	Mirroring	Y (Chromecast built-in)
Home Network* <sup>8</sup>	—	
Bluetooth* <sup>9</sup>	Y (BT 5.0) Audio/Game Pad/Headphone	

	Bluetooth Audio Link*10	Y
	Media Player	Y
	Support Format	MPEG1/MPEG2/MPEG4/H.264/VC1/HEVC/JPEG/BMP/PNG/MP3/WMA
	Teletext Reception	—
	Multi Window	—
	Hotel Mode	Y
	Netflix Recommended TV	—
	HDAVI Control	—
	DDR / Flash Memory	1.75 GB / 8.0GB
Energy Data	Visible Screen Size (diagonal)	165 cm
	Rated Power Consumption	200W
	Standby Power Consumption	0.5 W
	Power Supply	AC 110 - 240 V, 50/60 Hz
	Ambient Sensor (CATS)	—
Design	Swivel Design	—
	Switch Design	—
	Slim Design	—
	Borderless Design	Y
Terminal	Digital Tuner Reception	DVB-T2 (MPEG1/2/4, H.264/H.265/HEVC)/DVB-T/DVB-C
	Analogue Tuner	PAL B/G/H, I, D/K: SECAM B/G, D/K
	HDMI*11	1 (side), 2 (bottom)
	HDMI (4K 60/50p)	2

	with HDCP2.2)	
	Support Feature	HDMI 2.0 : 2 /HDMI 1.4 : 1
	USB	2 (2 side; USB 3.0 x 1, USB 2.0 x 1)
	Ethernet	1
	Component Video Input shared with Composite	1 (side)
	Composite Video Input	—
	Digital Audio Output (Optical)	1 (side)
	Analogue Audio Output	—
	Headphone Output	—
General	Included Accessory* <sup>12</sup>	Bluetooth TV Remote
	Dimensions (W x H x D) (w/o stand)	1,446 x 839 x 88 mm
	Dimensions (W x H x D) (with stand)* <sup>13</sup>	1,446 x 921 x 312 mm
	Weight (w/o stand)	17.4 kg
	Weight (with stand)	18.0 kg
	VESA Compatible	Y
Note	<p>*<sup>1</sup> Ultra HD Premium™ logo is a trademark of the UHD Alliance, Inc.</p> <p>*<sup>2</sup> All models: Supporting HDR does not increase the peak brightness capabilities of the TV panel.</p> <p>Full HD &amp; 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, whereas the HDMI input on this TV support only HDCP1.4; accordingly not all HDR contents are guaranteed to be enjoyed on the TV.</p> <p>*<sup>3</sup> The Google Assistant is not available in certain languages and countries. Requires internet connection. Availability of services varies by country and language. Subscriptions for services may be required. Google is a trademark of Google LLC.</p> <p>*<sup>4</sup> Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.</p> <p>*<sup>5</sup> Due to network conditions or certain broadcaster restrictions, this function may not be available.</p> <p>*<sup>6</sup> This feature requires a USB hard drive or flash drive with a capacity of at least 160 GB.</p>	

\*7 The Web Browser cannot display some web pages correctly. And viewable contents by the Web Browser are subject to the following conditions;

- viewable contents may vary depend on models,
- viewable contents may differ from those for PC,
- viewable contents may be limited.

\*8 File formats that are not supported by your Network Contents server (DLNA compatible server, etc.) cannot be played.

\*9 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.

\*10 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.

\*11 The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

\*12 Not all the accessories are listed here.

\*13 Dimension with recommended pedestal style.

\*14 Supporting HSP standardized by CTA-2072 (HDR Still Photo Interface)

\*15 10 Languages (English/Chinese (Simplified)/Arabic/Persian/French/Thai/Vietnamese/Indonesia/Hindi/Burmese)

\*16 To playback HDR, a HDR source is required (H.264 or H.265(ST2084 or HLG format)).

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