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Panasonic TV-65W90AEG

Panasonic TV-65W90AEG Smart TV User Manual

Model: TV-65W90AEG

Introduction

This manual provides essential information for the safe and efficient use of your Panasonic TV-65W90AEG Smart TV. Please read these instructions thoroughly before operating your television and retain them for future reference.

The Panasonic TV-65W90AEG is a 65-inch 4K LED Smart TV featuring Full Array LED technology, a 4K Ultra HD resolution of 3840 x 2160, and a panel refresh rate of up to 144 Hz. It supports multiple HDR formats including HDR10+ Adaptive, HDR10, HLG, and Dolby Vision IQ. The TV is powered by the HCX Pro AI MKII Processor and integrates Panasonic Premium Fire TV for smart functionalities, along with Alexa Built-in.



Image: Front view of the Panasonic TV-65W90AEG Smart TV, showcasing its 65-inch display and key features like Full Array LED, HCX Pro AI MKII, Theater Surround, and Game Mode Extreme.

Setup

1. Unpacking and Inspection

- Carefully remove the TV from its packaging.
- Check for any damage during transit. If damaged, do not plug in the TV and contact your retailer.
- Ensure all accessories are present: TV Remote Control.

2. Attaching the Stand (Optional)

If you are not wall-mounting the TV, attach the included stand:

- Place the TV face down on a soft, flat surface to prevent screen damage.
- Align the stand with the mounting holes on the bottom of the TV.
- Secure the stand using the provided screws. Refer to the diagram in the separate stand assembly guide for detailed steps.

Dimensions with stand: 1451 mm (W) x 910 mm (H) x 318 mm (D)
Weight with stand: 22.5 kg
Stand Dimensions: 1300 mm (W) x 318 mm (D)

3. Wall Mounting (Optional)

The TV is VESA compatible. Use a VESA-compliant wall mount kit (sold separately) that matches the specified dimensions:

- **VESA Dimensions (W x H):** 400 x 300 mm
- Consult a professional for wall mounting to ensure safety and proper installation.

Dimensions without stand: 1451 mm (W) x 839 mm (H) x 84 mm (D)
Weight without stand: 21.5 kg

4. Connecting External Devices

Connect your devices to the appropriate ports:

- **HDMI Inputs:** 4 (all side-facing). Supports HDMI2.1 features including eARC, ALLM, VRR, 4K HFR, AMD Freesync Premium, and SPD Auto Game Mode. Use HDMI for high-definition video and audio devices like Blu-ray players, game consoles, and set-top boxes.
- **USB Ports:** 2 (1x USB 3.0, 1x USB 2.0, both side-facing). For connecting USB storage devices for media playback or USB-HDD recording.
- **Ethernet:** 1 port for wired network connection.
- **CI (Common Interface) Slot:** 1 (CI Plus, version 1.4, ECP) for conditional access modules.
- **Digital Audio Output (Optical):** 1 (rear) for connecting to an external audio system.
- **Headphone Output:** 1 (side), switchable to Subwoofer output.
- **Antenna Input:** For connecting a DVB-T/T2/DVB-S2/DVB-C antenna or cable.

5. Power Connection

Connect the power cord to the TV and then to a suitable AC outlet. The TV operates on AC 220 - 240 V, 50/60 Hz.

6. Initial Setup Wizard

Upon first power-on, the TV will guide you through an initial setup process. This typically includes:

- Language selection (25 languages available).
- Network connection (Wi-Fi or Ethernet).
- Channel scanning for DVB-T/T2/DVB-S2/DVB-C.
- Accepting terms and conditions for Smart TV features.

Operating Instructions

1. Remote Control

The included TV remote control allows you to navigate the TV's functions. It features Alexa Built-in for voice commands. Refer to the remote control guide for a detailed button layout.

2. Smart TV Features (Panasonic Premium Fire TV)

Your TV integrates Panasonic Premium Fire TV, providing access to a wide range of streaming services, apps,

and smart functionalities.

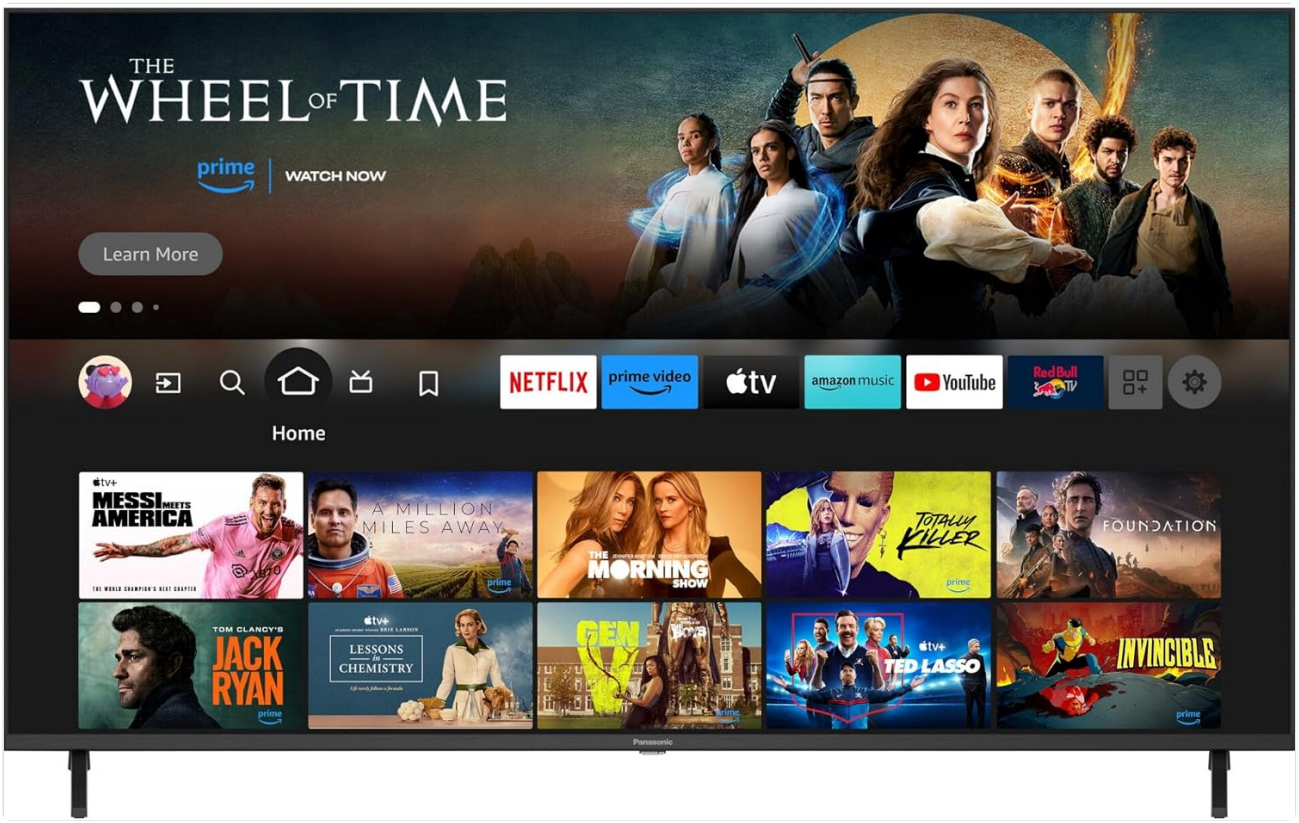

Image: The Panasonic TV-65W90AEG displaying the Fire TV smart interface with various streaming applications and content recommendations.

- **Navigation:** Use the remote control's directional pad and select button to browse the Fire TV interface.
- **Alexa Built-in:** Press the Alexa button on your remote and speak commands to search for content, control smart home devices, or get information.
- **Apple AirPlay:** Stream content directly from your Apple devices to the TV.
- **Mirroring/Google Cast:** Mirror content from compatible devices to your TV.
- **In-House TV Streaming (Client):** Access TV streams from a compatible server within your home network.

3. Picture Settings

Adjust picture quality to your preference using various modes:

- **Picture Modes:** Auto AI, Dynamic, Normal, Cinema, True Cinema, FILMMAKER (with Intelligent Sensing), Custom, Professional1, Professional2, Sport, Game, True Game.
- **Dolby Vision Modes:** Vivid, IQ, Dark, Game.
- **HDR Support:** HDR10+ Adaptive, HDR10, HLG, Dolby Vision IQ.
- **Local Dimming Ultra-Fact.:** Enhances contrast by adjusting backlight in specific areas.
- **Wide Color Gamut:** Provides a broader range of colors for a more vibrant picture.

4. Sound Settings

Optimize audio output for different content:

- **Audio Modes:** Auto AI, Standard, Music, Spoken, Stadium, FPS, RPG, User.
- **Dolby Atmos:** Provides immersive, three-dimensional audio.
- **Theater Surround:** Creates a wider soundstage.
- **Bluetooth Audio Link:** Connect compatible Bluetooth audio devices.

5. Gaming Features

The TV is equipped with features for an enhanced gaming experience:

- **Game Mode Extreme:** Reduces input lag for responsive gameplay, accessible via the new Game Control Board.
- **HDMI 2.1 VRR (Variable Refresh Rate):** Supports up to 144Hz for smooth, tear-free gaming.
- **HDMI 2.1 HFR (High Frame Rate):** Supports high frame rate content.
- **AMD Freesync Premium:** Synchronizes the display's refresh rate with the graphics card's frame rate.

6. Tuner and Recording

- **Digital Tuner:** Supports DVB-T/T2 (terrestrial), DVB-S2 (satellite), and DVB-C (cable).
- **USB-HDD Recording:** Connect a USB hard drive to record TV programs.
- **EPG (Electronic Program Guide):** View program schedules.
- **HbbTV:** Access hybrid broadcast broadband TV services.
- **Multi Window (PAP):** Display multiple sources simultaneously.

Maintenance

1. Cleaning the TV

- **Screen:** Gently wipe the screen with a soft, dry, lint-free cloth. For stubborn marks, slightly dampen the cloth with water or a specialized screen cleaner (ensure it's safe for LED screens) and wipe gently. Do not spray liquid directly onto the screen.
- **Cabinet:** Wipe the cabinet with a soft, dry cloth. Avoid using abrasive cleaners, waxes, or solvents.
- Always unplug the TV from the power outlet before cleaning.

2. Power Saving

- The TV features an **Ambient Sensor (CATS)** that automatically adjusts screen brightness based on room lighting conditions to optimize power consumption.
- To further reduce power consumption, adjust picture settings to 'Normal' or 'Eco' modes if available, and turn off the TV completely when not in use rather than leaving it in standby.

3. Software Updates

Periodically check for software updates through the TV's settings menu to ensure optimal performance and access to the latest features and security enhancements. Updates can be performed via network connection.

Troubleshooting

If you encounter issues with your TV, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cord is securely plugged into both the TV and a working electrical outlet. Try plugging another device into the same outlet to confirm it has power.
- **No Picture/Sound:** Check that the correct input source is selected. Verify all HDMI or other video/audio cables are securely connected to both the TV and the external device.
- **Remote Control Not Working:** Check the batteries in the remote control and replace them if necessary. Ensure there are no obstructions between the remote and the TV's IR sensor.
- **Network Connection Issues:** For Wi-Fi, ensure your router is on and functioning. For wired connections,

check the Ethernet cable. Try restarting your router and the TV.

- **Poor Picture/Sound Quality:** For broadcast channels, check antenna/cable connections. For streaming, ensure a stable internet connection. Adjust picture and sound settings.
- **TV Unresponsive:** Unplug the TV from the power outlet, wait for a few minutes, then plug it back in. This can resolve temporary software glitches.

If the problem persists after trying these steps, consult the Panasonic support website or contact customer service for further assistance.

Specifications

Feature	Specification
Model Number	TV-65W90AEG
Panel Technology	4K LCD/Full Array LED
Resolution (W x H)	4K Ultra HD / 3840 x 2160
Panel Refresh Rate	Up to 144 Hz
Multi HDR Support	HDR10+ Adaptive/HDR10/HLG/Dolby Vision IQ
Dimming/Contrast	Local Dimming Ultra-Fact.
Color	Wide Color Gamut
Processor/Engine	HCX Pro AI MKII Processor
Dolby Atmos	Yes
Speaker Output	20 W (10 W x 2)
Smart TV Functions	Panasonic Premium Fire TV, Alexa Built-in, Apple AirPlay, Mirroring
Gaming Features	Game Mode Extreme, HDMI 2.1 VRR (up to 144Hz), HDMI 2.1 HFR, AMD Freesync Premium
Wireless LAN	Built-in
Bluetooth	HiD/HOGP, A2DP, Bluetooth Audio Link
HDMI Inputs	4 (side), HDCP2.3, HDMI2.1 features supported
USB Ports	2 (1x USB 3.0, 1x USB 2.0, side)
Ethernet	1
CI (Common Interface) Slot	1 (CI Plus, version 1.4, ECP)
Digital Audio Output (Optical)	1 (rear)
Headphone Output	1 (side, switchable to Subwoofer out)

Digital Tuner	DVB-T/T2/DVB-S2/DVB-C
USB-HDD Recording	Yes
Multi Window	PAP (Picture-And-Picture)
On-screen Menu Language	25 languages
Energy Efficiency Class SDR	G
Energy Efficiency Class HDR	G
Visible Screen Size (diagonal)	164 cm / 65"
Average Power Consumption (SDR)	112 kWh/1000h
Average Power Consumption (HDR)	232 kWh/1000h
Standby Power Consumption	0.5 W
Power Supply	AC 220 - 240 V, 50/60 Hz
Nominal Power Consumption	270 W
Ambient Sensor (CATS)	Yes
Dimensions (W x H x D) without stand	1451 x 839 x 84 mm
Dimensions (W x H x D) with stand	1451 x 910 x 318 mm
Weight without stand	21.5 kg
Weight with stand	22.5 kg
Stand Dimensions (W x D)	1300 x 318 mm
VESA Compatible	Yes
VESA Dimensions (W x H)	400 x 300 mm
External Packaging Dimensions (W x H x D)	1596 x 960 x 176 mm
Total Packaged Weight	29 kg

Warranty and Support

Your Panasonic TV-65W90AEG Smart TV comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions, including coverage period and service procedures.

For technical support, service inquiries, or to find authorized service centers, please visit the official Panasonic support website or contact their customer service helpline in your region. Keep your proof of purchase and the TV's serial number handy when contacting support.

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