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Panasonic HDC-TM900K

Panasonic HDC-TM900K 3D Camcorder User Manual

Model: HDC-TM900K

Product Overview Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Panasonic HDC-TM900K is a high-definition 3D camcorder designed for capturing vivid and detailed video. It features an advanced 3MOS System, a Leica Dicomar Lens, and the Crystal Engine PRO for superior image quality. This camcorder supports 1080/60p progressive recording and includes advanced stabilization and audio technologies to enhance your recording experience.



Figure 1: Panasonic HDC-TM900K 3D Camcorder. The image displays the camcorder from a rear-right angle with the LCD screen open. Visible features include the 3MOS branding, 35mm wide lens marking, Dolby Digital 5.1 Creator logo, 1080/60p indicator, power/mode button, menu buttons, zoom/volume controls on the LCD bezel, and access panels for battery, SD card, HDMI, and AV Multi ports.

Key Features:

- **Advanced 3MOS System:** Records natural images with powerful colors and detailed rendering in various lighting conditions.
- **Leica Dicomar Lens:** Ensures sharp images, excellent shading, and suppresses optical distortions.
- **Crystal Engine PRO:** Processes Full-HD data, enhances image quality, and reduces noise by approximately 45% compared to previous models.
- **1080/60p Progressive Recording:** Captures Full-HD (1920 x 1080) video at 60 frames per second for smooth, detailed motion.
- **Intelligent 20x Zoom & HYBRID O.I.S.:** Combines optical and electrical image stabilization to correct hand-shake blurring, even at high zoom levels.
- **35mm Wide-Angle Lens:** Allows for wider shots, ideal for capturing groups or expansive scenes in confined spaces.

- **5.1-Ch Surround Sound System & Zoom Mic:** Features five microphones for a 3-dimensional audio effect and improved noise reduction for clear sound capture.
- **Wind Noise Canceller:** Automatically suppresses wind noise while maintaining stereo recording quality.
- **Digital Cinema Mode:** Offers progressive 1080/24p (NTSC) or 1080/25p (PAL) recording for a film-like aesthetic.
- **Still Picture Recording:** Capable of capturing still images up to 14.2 megapixels, with simultaneous video and 13.3-megapixel still recording.
- **32GB Internal Flash Memory:** Provides ample storage for recordings directly on the device.

2. Setup

2.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed below are present and undamaged.

What's in the Box:

- Panasonic HDC-TM900K 3D Compatible Camcorder
- AC Adapter
- AC Cable
- Rechargeable Battery Pack (min. 1250 mAh / Lithium-Ion)
- AV Multi Cable
- IR Remote
- Shoe Adapter
- USB Cable
- HD Writer AE 3.0 Software
- Lens Hood
- Stylus Pen

2.2 Charging the Battery

Before first use, fully charge the supplied rechargeable battery pack using the AC adapter and AC cable. Connect the AC adapter to the camcorder and a power outlet. The charging indicator will show the charging status. Refer to the detailed instructions in the full manual for specific charging times and indicators.
CAUTION: Use only the specified charger. Improper charging can lead to fire or burns. Do not open, crush, store above 140°F (60°C), or incinerate the battery. Refer to the full manual for complete safety information.

2.3 Inserting an SD Card

The camcorder supports SDXC/SDHC/SD Memory Cards for additional storage. Locate the SD card slot (refer to Figure 1 for general location) and insert the memory card until it clicks into place. Ensure the card is inserted correctly to avoid damage.

2.4 Attaching the 3D Conversion Lens (Optional)

To record in 3D, attach the optional 3D conversion lens (e.g., Panasonic VW-CLT1) to the front of the camcorder's main lens. Align the lens and gently twist to secure it. This lens features offset left and right lenses to capture stereoscopic images.

3. Operating Instructions

3.1 Powering On/Off

To power on the camcorder, open the LCD screen or pull out the viewfinder. To power off, close the LCD screen or push in the viewfinder. An additional on/off button may be located inside the LCD display panel for specific operations like inserting SD cards or connecting cables.

3.2 Recording Video

Ensure the camcorder is powered on and a charged battery or AC adapter is connected. Press the**RECORD** button to start recording. Press it again to stop. The camcorder will record to the internal 32GB flash memory or the inserted SD card.
For 3D recording, ensure the 3D conversion lens is properly attached. The camcorder's internal chip records separate left and right images, which are then processed for 3D playback.

3.3 Using Zoom and Image Stabilization

Use the zoom controls (typically marked T for Telephoto and W for Wide-angle, or + and -) on the LCD bezel or the lens control ring to adjust the zoom. The Intelligent 20x Zoom maintains image resolution even at high magnifications.
The HYBRID O.I.S. (Optical Image Stabilizer) automatically corrects for camera shake. For stationary shots requiring maximum stability, press and hold the **O.I.S. Lock** indication on the LCD screen to maximize blur detection sensitivity.

3.4 Audio Settings

The camcorder features a 5.1-Ch Surround Sound System with a Zoom Mic. The Zoom Mic function improves noise reduction and captures target sounds more clearly, especially when zooming. The Wind Noise Canceller automatically detects and suppresses wind noise during outdoor recording, preserving stereo sound quality. You can also adjust the Bass Setting to control low-frequency sound levels.

3.5 Scene Modes and Special Features

Select a Scene Mode to optimize settings for specific shooting conditions. Available modes include: Sports, Portrait, Low Light (motion image only), Spot Light, Snow, Beach, Sunset, Fireworks, Scenery, Night Scenery, and Night Portrait (still image only).
The Soft Skin Mode detects skin tones and softens focus in those areas to reduce the appearance of wrinkles and blemishes while maintaining sharpness in other parts of the image.
Use Tele-Macro to shoot close-ups from a distance of 70cm, allowing for extreme close-ups with a softly focused background without casting shadows on the subject.

3.6 Viewing Recorded Content

You can view your recorded videos and photos directly on the camcorder's LCD screen.

Viewing on a 3D-Ready TV or Blu-ray Player:

1. **Direct Connection (HDMI):** Connect the camcorder to your 3D-ready TV's HDMI input using an HDMI cable. Select the corresponding HDMI input on your TV and press play on the camcorder.
2. **Using an SD Card:**
    - Remove the SD card from the camcorder.
    - Insert the SD card into the SD card slot of a compatible 3D-ready Panasonic Viera TV (e.g., GT30 series) or a Panasonic Blu-ray player.
    - The TV or Blu-ray player should detect the card and display an SD card menu.
    - Using the remote control, navigate to and select your desired video clip. The content will play in 3D on your compatible display.

▶ **Watch video online**

Video 1: Demonstration of recording and viewing 3D content with a Panasonic camcorder and a Panasonic Viera 3D TV. This video illustrates the process of

attaching a 3D conversion lens, recording a moment, and then playing back the 3D video directly from an SD card on a compatible Panasonic TV or Blu-ray player.

4. Maintenance

4.1 General Care

- Keep the camcorder clean and free from dust and moisture.
- Use a soft, dry cloth for cleaning the body.
- For lenses, use a specialized lens cleaning cloth and solution to avoid scratches.
- Avoid exposing the camcorder to extreme temperatures or direct sunlight for extended periods.

4.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the battery in a cool, dry place when not in use. Always use the original Panasonic AC adapter for charging.

5. Troubleshooting

This section provides general troubleshooting tips. For detailed solutions, refer to the comprehensive user manual provided with your camcorder or visit the Panasonic support website.

Common Issues and Solutions:

- **Camcorder does not power on:** Ensure the battery is fully charged and correctly inserted, or connect the AC adapter.
- **No image on LCD screen:** Check if the LCD screen is fully open. Adjust brightness settings if the screen is too dim.
- **Poor image quality:** Clean the lens. Ensure proper lighting conditions. Check selected scene mode and adjust if necessary.
- **3D video not displaying correctly:** Verify the 3D conversion lens is properly attached. Ensure your TV or Blu-ray player is 3D-ready and configured for 3D playback. Check the SD card for proper insertion.
- **No sound during playback:** Check volume settings on the camcorder and connected TV. Ensure audio cables (if used) are correctly connected.
- **SD card not recognized:** Ensure the SD card is fully inserted. Try reinserting the card. Format the card (this will erase all data) if the issue persists, or try a different compatible SD card.

6. Specifications

Model Number	HDC-TM900K
Sensor	Advanced 3MOS System (7.59 million effective motion image pixels)
Lens	Leica Dicomar Lens, F1.5-F2.8, 46mm filter diameter, 35mm Wide Angle
Zoom	Intelligent 20x Zoom
Image Stabilization	HYBRID O.I.S. (Optical Image Stabilizer)
Video Recording Resolution	1080/60p (Full-HD 1920 x 1080 Progressive), Digital Cinema Mode (1080/24p NTSC / 1080/25p PAL)

Still Picture Resolution	Max 14.2 Megapixels (3:2 aspect ratio), 13.3 Megapixels (16:9 aspect ratio simultaneous)
Internal Memory	32GB Internal Flash Memory
External Memory	SDXC/SDHC/SD Memory Card Slot
Audio Format	Dolby Digital 5.1 Creator
Connectivity	HDMI, USB, AV Multi, Infrared
Screen Size	3.5 Inches
Power Source	Rechargeable Lithium-Ion Battery (1 required)
Item Weight	2.35 pounds
Package Dimensions	7.6 x 5.5 x 5 inches

7. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Panasonic website. For technical support, product registration, or service inquiries, please contact Panasonic customer support through their official channels.
Online resources and FAQs may also be available on the Panasonic support website to assist with common questions and issues.

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