Sony UPD897MD

Sony UPD-897MD Medical Digital A6 Black & White Photo Thermal Printer User Manual

Model: UPD897MD

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Sony UPD-897MD Photo Thermal Printer. Designed for digital ultrasound systems, this monochrome black and white printer offers high-speed, high-resolution printing of A6-sized images. Please read this manual thoroughly before using the printer and retain it for future reference.

Figure 1: Sony UPD-897MD Photo Thermal Printer in operation, showing a printed image exiting the front slot.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent electric shock, fire, or damage to the unit:

- **Power Source:** Use only the power supply specified for this unit (100 to 240 V AC; 50/60Hz).
- **Ventilation:** Do not block ventilation openings. Ensure adequate space around the printer for proper airflow.
- **Liquid Exposure:** Do not expose the printer to rain or moisture. Avoid placing objects filled with liquids on the unit.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Medical Environment:** This device is intended for medical imaging. Ensure installation and operation comply with relevant medical device safety standards (UL60601-1, CSA No. 60601-1).

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Sony UPD-897MD Photo Thermal Printer
- Digital USB Adapter
- Power Cord
- User Manual (this document)

Note: Print media (e.g., UPP-110HG, UPP-110HD, UPP-110S) is not included and must be purchased separately.

4. PRINTER OVERVIEW

4.1 Rear Panel Connections

Figure 2: Rear panel of the UPD-897MD printer, illustrating the USB port, power input, and other interface connectors.

The rear panel of the printer houses all necessary connection ports for power and data transfer. Key connectors include:

- **USB Port:** For connecting to a host system (e.g., ultrasound machine, computer).
- **AC Power Input:** For connecting the power cord.
- **Analog Connector:** For specific analog input systems.

4.2 Side Panels

Figure 3: Left side panel, showing ventilation grilles.

Figure 4: Right side panel, showing ventilation grilles.

Both side panels feature ventilation grilles to ensure proper heat dissipation during operation. Do not obstruct these grilles.

5. SETUP

5.1 Unpacking

1. Carefully remove the printer and all accessories from the packaging.
2. Retain the packaging materials for future transport or storage.

5.2 Power Connection

1. Ensure the printer's power switch is in the OFF position.
2. Connect the supplied power cord to the AC power input on the rear panel of the printer (refer to Figure 2).
3. Plug the other end of the power cord into a grounded electrical outlet.

5.3 Connecting to a Host System (USB)

1. Connect one end of a USB 2.0 cable (not included, unless using the Digital USB Adapter) to the USB port on the rear panel of the printer (refer to Figure 2).
2. Connect the other end of the USB cable to a compatible USB port on your digital ultrasound system or computer.

5.4 Driver Installation

For computer connectivity, install the appropriate printer driver software. Drivers are typically provided on a CD-ROM or available for download from the Sony support website. This printer supports Windows 2000/XP operating systems.

5.5 Loading Print Media

1. Open the paper tray cover on the front of the printer.
2. Insert the thermal print paper roll (e.g., UPP-110HG, UPP-110HD, UPP-110S) into the tray, ensuring the leading edge is correctly aligned.
3. Close the paper tray cover. The printer will automatically feed the paper to the correct starting position.

6. OPERATION

6.1 Basic Printing Process

1. Ensure the printer is powered on and connected to the host system.

2. From your ultrasound system or computer application, initiate the print command.

3. The printer will begin printing the image. A typical print takes approximately 2.0 seconds in High Speed Mode.

4. Once printing is complete, the paper will exit the front slot. Tear off the print along the perforated line or use the integrated cutter if available.

6.2 Print Settings

- **Resolution:** The printer operates at a resolution of 325 dpi for clear monochrome images.
- **Gradation:** Features true 256 gray balance for detailed image reproduction.
- **Print Speed:** Approximately 2.0 seconds per print in High Speed Mode.

6.3 Control Buttons

The front panel of the printer typically includes buttons for basic functions such as power, feed, and copy. Refer to the labels on the printer's front panel for specific button functions.

7. MAINTENANCE

7.1 Cleaning the Printer

- **Exterior:** Wipe the exterior of the printer with a soft, dry cloth. For stubborn dirt, use a cloth lightly dampened with water and a mild detergent, then wipe dry.
- **Thermal Head:** The thermal head is a delicate component. If print quality degrades, consult the service manual or contact qualified service personnel for cleaning instructions. Do not attempt to clean it yourself unless specifically instructed.
- **Dust:** Keep the printer free from dust. Use a soft brush or compressed air to gently remove dust from ventilation openings.

7.2 Replacing Print Media

When the print media roll is depleted, replace it by following the steps outlined in Section 5.5 "Loading Print Media". Ensure you use compatible thermal paper types (UPP-110HG, UPP-110HD, UPP-110S).

8. TROUBLESHOOTING

This section addresses common issues you may encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Printer does not power on	Power cord not connected; Power outlet faulty	Check power cord connection; Try a different outlet
Printer not recognized by host system	USB cable loose or faulty; Driver not installed or incorrect	Reconnect USB cable; Install/reinstall correct printer driver
No print output	No print media loaded; Print media loaded incorrectly	Load new print media; Ensure paper is correctly inserted (Section 5.5)
Poor print quality (faint, lines, streaks)	Low quality print media; Thermal head dirty or damaged	Use recommended print media; Contact service personnel for thermal head inspection/cleaning

9. SPECIFICATIONS

Feature	Specification
Model Number	UPD897MD
Printing Technology	Direct Thermal Printing
Printer Output	Monochrome (Black & White)
Print Resolution	325 dpi
Gradation	True 256 gray balance
Print Speed	Approx. 2.0 seconds (High Speed Mode)
Connectivity Technology	USB 2.0 High Speed Interface, Analog
Supported Media Sizes	A6
Compatible Print Media	UPP-110HG (High Gloss), UPP-110HD (High Density), UPP-110S (Standard)
Power Requirements	100 to 240 V AC; 50/60Hz; 1.5A to 0.8A
Dimensions (W x H x D)	17 x 12 x 12 inches (approximate)
Weight	9.45 pounds (approximate)
Memory Storage Capacity	64 MB
Included Components	Digital USB Adapter
Specific Uses	Medical Imaging and Scanning
Safety Compliance	UL 60950-1 Listed; CSA C22.2 NO. 60950-1; UL60601-1 Listed; CSA No. 60601-1

10. WARRANTY INFORMATION

This product comes with a 30-day warranty from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or use of non-approved consumables. Please retain your proof of purchase for warranty claims.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Sony customer support. Refer to the official Sony website or product documentation for the most current contact information.