

# SONY®

Color Video Printer

# UP-51MD/ 51MDP



**T**he UP-51MD/51MDP is an A5 color video printer using dye sublimation technology. It is the perfect printing solution for many medical applications, for example in high-end Endoscopy and Ultrasound systems, and is also ideal for a wide range of scientific, industrial, and engineering uses that require high-performance printing systems.

The UP-51MD/51MDP combines excellent image quality with fast printing. In addition, it is designed for heavy-duty use, offering superb reliability and durability.

With all these features in its compact body, the UP-51MD/51MDP is ideal for the creation of high-quality hard copy images from video.

## Superior Print Quality and Color at approx. 300 dpi Resolution

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Incorporating Sony dye sublimation printing technology, the UP-51MD/51MDP provides photo-realistic quality prints with more than 16 million color tones. The innovative PQC (Picture Quality Control) feature provides highly accurate image reproduction.

A new color adjustment function allows you to easily select the color that most closely matches your requirements. Three alternative gamma curves are also available, so that the one that provides the most suitable tonal range for your application can be selected.



Color adjustment function

## Alternative Print Media

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Two types of printing packs are available for use with the UP-51MD/51MDP. The UPC-510 Color Printing Pack contains an ink ribbon and paper for 200 prints. The alternative UPC-540/540MD Self-laminating Color Printing Pack produces 102 prints that are laminated for increased durability, making them ideal for archiving applications. Prints from the UPC-510 and UPC-540/540MD are cut sheets. They are not curled so that you can handle them very easily.

## High-Speed Printing, A5 Size

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When printing on the UPC-510, the UP-51MD/51MDP outputs an A5-size print from an NTSC (PAL) video frame in approx. 20 (22) seconds\*. The UPC-540/540MD is available for the greater durability of a laminated finish. This enables you to choose the type of paper best suited to your application. The rapid print operation is the result of the introduction of a newly developed high-speed IC, combined with a powerful loading motor and highly-sensitive print media.

\*Measured at high-speed mode.

## Compact Size

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The adoption of a new printing mechanism for the UP-51MD/51MDP has resulted in a compact design with dimensions of approx. 370(W) x 125(H) x 475(D) mm (14 5/8 x 5 x 18 3/4 inches) and a weight of only 14 kg (31 lb). A width of 370 mm (14 5/8 inches) ensures a comfortable fit on a medical cart or in areas where space is at a premium.

## Eight Frame Memories

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The UP-51MD/51MDP features eight built-in memories so that up to eight frame-quality color images can be stored in memories simultaneously. While printing an image from one of the memories, the UP-51MD/51MDP can simultaneously store additional images in the remaining memories. Furthermore, multiple images can be saved in the frame memories and can be printed out as a single print.

## High Durability and Reliability

The UP-51MD/51MDP is engineered for reliability. It features a long-life thermal head, and other mechanical components and their control system are new designs to enhance their service life.

## Versatile Analog Video Inputs and Outputs

The UP-51MD/51MDP accepts and outputs an analog RGB, S-Video (Y/C) or composite video signal.

## Convenient Remote Controls

Two optional foot switches are available. With the FS-30 and FS-36, hands-free control of printer functions is possible. Two optional wired/wireless remote control units are also available. The RM-91 is a single button controller, while the RM-5500 provides comprehensive control of printer functions. With this choice of remote control units and foot switches, printer operation is both simple and easy in many different applications.

## System Connections



## RS-232C Port

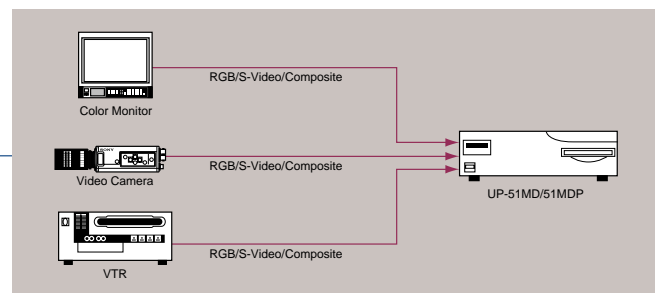
The UP-51MD/51MDP has an RS-232C port so that you can control the printer from external equipment such as a computer.

## Monitor Loop-Through for System Power Saving

The UP-51MD/51MDP has a signal loop-through capability so that input sources can be viewed on a connected monitor even when the printer is not powered on. This loop-through function reduces the total power consumption of the system.

## 2,4,8, or 16 Split / Duplicate Image Print Mode

Different or duplicate images can be printed in a variety of sizes on a single page.



*Besides medical applications, the UP-51MD/51MDP can also be used for the following applications.*

for engineering

for amusement

## Specifications

<b>Printing Method</b>	Dye Sublimation Printing	
<b>Resolution</b>	Approx. 300 dpi (2048 dots)	
<b>Gradations</b>	256 gradations for Yellow, Magenta, Cyan Over 16.7 million colors per dot	
<b>Effective Print Pixels</b>	NTSC (UP-51MD)	976 x 1,920 dots
	PAL (UP-51MD/51MDP)	1,176 x 1,920 dots
<b>Print Area</b>		
NTSC (UP-51MD)	126.2 x 165.1 mm (5 x 6 1/2 inches) — Full	
	117.0 x 170.9 mm (4 3/5 x 6 3/4 inches) — 2 Splits	
	128.2 x 167.1 mm (5 x 6 1/2 inches) — 4 Splits	
	117.9 x 170.9 mm (4 3/5 x 6 3/4 inches) — 8 Splits	
	129.2 x 165.1 mm (5 x 6 3/4 inches) — 16 Splits	
PAL (UP-51MD/51MDP)	124.8 x 165.1 mm (5 x 6 1/2 inches) — Full	
	117.0 x 170.9 mm (4 3/5 x 6 3/4 inches) — 2 Splits	
	126.9 x 167.1 mm (5 x 6 1/2 inches) — 4 Splits	
	119.0 x 170.9 mm (4 2/3 x 6 3/4 inches) — 8 Splits	
	127.4 x 165.1 mm (5 x 6 1/2 inches) — 16 Splits	
<b>Paper Size</b>	A5 Size	148 x 210 mm (5 7/8 x 8 3/8 inches)
<b>Printing Time (High-speed Mode)</b>	NTSC (UP-51MD)	PAL (UP-51MD/51MDP)
	UPC-510	UPC-540/540MD
UPC-510	Approx. 20 seconds	Approx. 22 seconds
UPC-540/540MD	Approx. 31 seconds	Approx. 33 seconds
<b>Memory</b>	8 Frame Memories	
<b>Control Connector</b>	Remote 1 (special mini.) for optional RM-5500, RM-91 Remote 2 (stereo mini.) for optional FS-36 Remote 3 (D-sub 9-pin) for optional FS-30 RS-232C interface port (D-sub 25-pin) for external computer	
<b>Inputs/Outputs</b>	Video, S-Video, RGB	
<b>Max. Paper Tray Capacity</b>	100 sheets	
<b>Max. Power Consumption</b>	2.8 A(UC) , 1.2 A(CED)	

<b>Power Requirements</b>	
UP-51MD	AC 100 to 120 V, 50/60 Hz
	AC 220 to 240 V, 50/60 Hz
UP-51MDP	AC 220 to 240 V, 50/60 Hz
<b>Dimensions</b>	370(W) x 125(H) x 475(D) mm (14 5/8 x 5 x 18 3/4 inches)
<b>Mass</b>	Approx. 14 kg ( 31 lb)
<b>Safety Standards</b>	
UP-51MD	UL : UL2601-1
	CSA : CSA C22.2 No. 601.1
	TUV : EN 60950, 60601-1
	CE : LVD / MDD
UP-51MDP	TUV : EN60950, 60601-1
	CE : LVD / MDD

## Supplied Accessories

Ink Ribbon Holder (1)
AC Power Code (1)
Paper Tray (1)
Print Tray (1)
Color Print Pack (20 prints)
Operation Manual (1)

## Optional Accessories

UPC-510 Color Printing Pack (200 prints)
UPC-540/540MD Self-Laminating Color Printing Pack (102 prints)
UPA-50RH Ink Ribbon Holder
RM-5500 Wired/Wireless Remote Commander
RM-91 Remote Control Unit
FS-36 Foot Switch
FS-30 Foot Switch

## Optional Accessories



UPC-510 Color Printing Pack



UPC-540/540MD Self-laminating Color Printing Pack

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