

## UP-25MD

### A6 Analogue Colour Printer



#### Overview

The UP-25MD is a high quality printer designed for medical applications. It features a variety of analogue video inputs for standard definition as well as high definition signals and is compatible with a wide range of medical imaging devices.

The printer's photo-quality dye sublimation technology ensures that prints are durable and long-lasting. It is compatible with our traditional UPC-21S and UPC-21L media series. It seals and protects printed images against environmental hazards. Colours can be adjusted using RGB or HSV colour spaces to match monitor output and to optimize colour reproduction accuracy.

#### Features

##### **Dye Sublimation printing**

Dye Sublimation printing is an ideal technology for making high quality, accurate photographic prints. The richly saturated images created by this printer are extremely stable and have a very long life-time: ideal for archiving with surgical reports.

##### **Analogue inputs**

The UP-25MD accepts analogue signals from a very wide range of medical equipment. A choice of Composite, S-Video and Component (SD and HD) inputs provides a high degree of compatibility with medical imaging devices.

## **Choice of self-laminating and standard media**

The UP-25MD accepts two sizes of media (126 x 96mm and 96 x 72mm) in both standard and self-laminating versions. The laminating media provides an extra barrier to protect the print from humidity, spills, finger marks and scratches. It also improves the appearance of the prints.

## **Colour adjustment**

As well as the normal lighter/darker and RGB adjustment, the UP-25MD also features HSV, for more detailed image manipulation and correction. HSV (hue, saturation and value) will, for example, allow users to boost or reduce the intensity of a single colour, without affecting the overall colour balance of the image. Colour settings can be stored for later use.

## **User friendly controls and front loading**

User controls and access for media replacement are available on the front panel, making it possible to fit the device into compact spaces, where only the front is visible.

## **Designed to fit on endoscopic trolleys**

The footprint of the UP-25MD is optimised to allow installation on standard endoscopic trolleys. The feet supporting the printer are in exactly the same position as previous models, making it easy to upgrade.

## **Predictable print costs**

Each print uses exactly the same quantity of ribbon and paper, so users can budget precisely for media costs. This also means that paper and print consumables are always changed at the same time, resulting in a major saving in maintenance tasks.

## **Compliance with medical standards**

This product is distributed to the US and EU as a medical device and satisfies product safety standards (e.g. IEC 60601-1). For more details, please contact your nearest Sony sales office or an authorized dealer.

## Specifications

### Generic Specifications

|                     |  |
|---------------------|--|
| Printing method     | Dye sublimation thermal transfer   |
| Resolution          | 423 dpi  |
| Gradations          | 256 levels (8 bits) each for Yellow, Cyan, Magenta   |
| Picture elements    | UP-21L/24LA: 2,132 x 1,600 dots<br>UP-21S/24SA: 1,600 x 1,260 dots                                     |
| Picture area        | UP-21L/24LA: 127.9 x 96.0 mm (5 1/8 x 3 3/4 inches)<br>UP-21S/24SA: 96.0 x 75.6 mm (3 3/4 x 3 inches)  |
| Printing time*      | UP-21L: Approx. 29 sec<br>UP-21S: Approx. 19 sec<br>UP-24LA: Approx. 36 sec<br>UP-24SA: Approx. 25 sec |
| TV system           | Select from NTSC/PAL signal system (using NTSC/PAL switch)   |
| HDTV IN/OUT signals | 1080i/59.94i, 1080/50i (2:1 interlace)<br>720/59.94p, 720/50p (progressive)                            |
| Paper tray capacity | L size: max. 50 sheets<br>S size: max. 80 sheets   |

|                       |   |
|-----------------------|---|
| Interface             | <p>RGB/Y/Pb/Pr (BNC) (×3): 0.7 Vp-p<br/>         SYNC ON G: 0.3 Vp-p, sync negative<br/>         SYNC (BNC) (×1): 0.3 to 4 Vp-p,<br/>         sync negative<br/>         S VIDEO (4-pin mini-DIN) (×1):<br/>         Y: 1 Vp-p, sync negative<br/>         C: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL)<br/>         VIDEO (BNC) (×1) : 1 Vp-p, sync<br/>         negative</p>  |
| Control connectors    | <p>REMOTE 1: special mini jack (×1)<br/>         for RM-5500 Remote Control Unit<br/>         (not supplied)<br/>         REMOTE 2 (automatic printing<br/>         connector)<br/>         : Stereo mini jack: (×1) for optional<br/>         RM-91 Remote Control Unit or FS-<br/>         24 Foot Switch<br/>         RS-232C (Computer control<br/>         interface)<br/>         : D-sub 25-pin connector (×1)</p> |
| Power requirements    | AC 100 V to 240 V, 50/60Hz  |
| Input current         | 1.7 A to 1.0 A  |
| Operating temperature | 5°C to 35°C (41°F to 95°F)  |
| Operating humidity    | 20% to 80% (no condensation<br>allowed)   |

|                                   |  |
|-----------------------------------|--|
| Storage and transport temperature | -20°C to +60°C (-4°F to +140°F)                                |
| Storage and transport humidity    | 20% to 80% (no condensation allowed)                           |
| Dimensions                        | 212 (W) x 98 (H) x 398 (D) mm, (8 3/8 x 3 7/8 x 15 5/8 inches) |
| Mass                              | 5.7 kg (12 lb 6 oz)  |

## Notes

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| Notes | * Measured in high-speed mode when using the UPC-21S Colour Printing Pack (excluding data transfer time) |
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## Supplied Accessories

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| CD-ROM (Operating Instructions (PDF) 21 languages) |
| Before Using this Printer (21 languages)           |
| Paper Tray   |
| Stopper  |
| Cleaning Cartridge                                 |



## Gallery



