



**UP-20**  
**UP-21MD**  
**UP-D21MD**

## **ANALOGUE/DIGITAL COLOUR VIDEO PRINTERS**

**As the size of medical imaging equipment such as endoscopy and ultrasound get smaller, printers that are used alongside such equipment also need to be compact. The UP-20, UP-21MD and UP-D21MD have been designed for medical applications where you're short on space, but need high quality prints, fast.**

Complying with medical regulations, the compact design of these printers means that they will help to free up space on medical carts and are easily integrated. They are also easy to maintain and set up, thanks to their front-loading operation.

The UP-20 and UP-21MD are analogue colour printers with versatile inputs and outputs, while the UP-D21MD is a digital colour printer featuring a USB interface which allows direct control from a PC. All three models use Sony dye sublimation printing technology which provides photo-realistic quality prints and outstanding colour reproduction. High-resolution, near A6-size prints can be produced in under 20 seconds.\*

The UP-20, UP-21MD and UP-D21MD are ideal for a wide range of medical and scientific disciplines where you may be limited for space but can't afford to compromise on quality or speed.

\* See specifications table for printing times of each model/ print media.

### **Common features**

- Photo-realistic quality A6 prints with Sony dye sublimation printing technology (more than 16 million colours)
- Superb print quality (403 dpi)
- High-speed printing
- Frame memories- the printer can print one image while simultaneously storing additional images
- Slim and compact design
- Easy to use
- Front-loading operation for extra convenience and accessibility
- Worldwide AC power supply: 100 V to 120 V, 220 V to 240 V
- Complies with medical regulations
- Low-cost print media
- Excellent price-performance ratio

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## UP-20

### Analogue Colour Video Printer

- High-speed printing time of approximately 17 seconds (high-speed mode with the UPC-21S print media)
- RS-232C port for operation from external equipment
- Convenient remote control capability
- Versatile analogue video inputs and outputs (Composite Video, S-Video)
- 2 or 4-split image print mode
- 4 frame memories



## UP-21MD

### Analogue Colour Video Printer

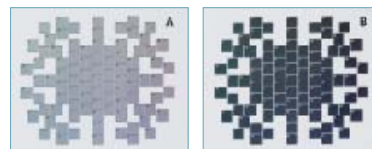
- High-speed printing time of approximately 17 seconds (high-speed mode with the UPC-21S print media)
- Proven PQC (Picture Quality Control) technology provides highly accurate image reproduction
- Colour adjustment function: easy selection of the colour most closely matching requirements
- RS-232C port for operation from external equipment
- Convenient remote control capability
- Hands-free control of printer functions with the optional FS-36 foot switch
- Versatile analogue video inputs and outputs (RGB, Composite Video, S-Video)
- 2 or 4-split image print mode
- 4 frame memories
- Monitor loop-through for system power saving



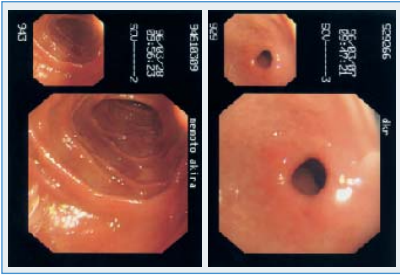
## UP-D21MD

### Digital Colour Video Printer

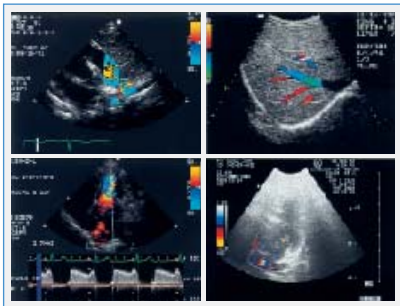
- High-speed printing time of approximately 19 seconds (high-speed mode with the UPC-21S print media)
- USB interface (version 1.1) for easy hook up with digital systems
- Resize-to-fit feature allows user to enlarge images of VGA, SVGA and XGA
- Grey balance adjustment capability
- Image spooling (2 frame memories)



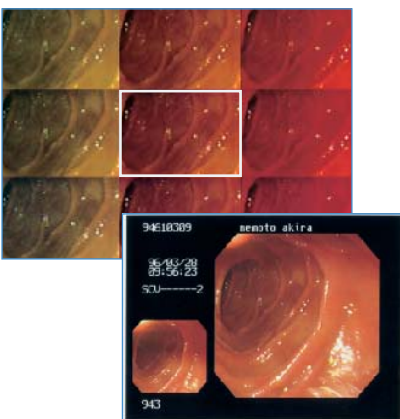
Grey balance adjustment capability



2-split image print mode  
(UP-20/UP-21MD)



4-split image print mode  
(UP-20/UP-21MD)



Superior print quality and colour reproduction at approx. 400 dpi resolution

### Four frame memories

The UP-20 and UP-21MD feature four built-in frame memories so that up to four frame-quality colour images can be stored in memories simultaneously. While printing an image from one of the memories, the printer 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.

### Convenient remote controls

Two optional wired/wireless remote controls can be used with the UP-20 and UP-21MD. The RM-91 is a single-button controller, while the RM-5500 provides comprehensive control of the printers' functions. This choice of control units means that operation of the printers is both simple and easy in many different applications.



RM-5500

### Recommended Sony print media

Sony print media is developed exclusively alongside Sony printers and is designed to match their mechanical characteristics – each complements the other.

#### UPC-21S Colour Print Pack

- 240 sheets of print media (100 x 90 mm)
- 3 rolls of ink ribbon
- Thermal head cleaning sheet

#### UPC-21L Colour Print Pack

- 200 sheets of print media (144 x 100 mm)
- 4 rolls of ink ribbon
- Thermal head cleaning sheet



# UP-20/21MD/D21MD SPECIFICATIONS

	UP-20	UP-21MD	UP-D21MD
Printing Method	Dye sublimation printing		
Resolution	403 dpi (1664 dots)		
Gradations	256 gradations for Yellow, Magenta, Cyan, over 16.7 million colours per dot		
Effective Print Pixels	S Size 1,524 x 1,176 dots L Size 2,032 x 1,458 dots	S Size 1,524 x 1,176 dots L Size 1,524 x 1,458 dots	S Size 1,520 x 1,144 dots L Size 2,000 x 1,520 dots
Print Area	S Size Full 95.8 x 72.7 mm 2 Splits 68.3 x 47.7 mm L Size 126.9 x 91.9 mm 2 Splits 87.7 x 63.4 mm 4 Splits 63.5 x 45.9 mm		S Size 95.8 x 72.1 mm  L Size 126 x 95.76 mm
Media Size	A6 S Size 100 x 90 mm (4 x 3 5/8 inches) A6 L Size 144 x 100 mm (5 3/4 x 4 inches)		
Printing Time (High-speed mode)	UPC-21S: approx. 17 seconds UPC-21L: approx. 25 seconds		UPC-21S: approx. 19 seconds UPC-21L: approx. 29 seconds
Memory	4 Frame memories		
Control Terminal	Remote 1 (special mini) for optional RM-5500 Remote 2 (stereo mini) for optional RM-91 RS-232C interface port (D-sub-pin)	Remote 1 (special mini) for optional RM-5500 or RM-91 Remote 2 (stereo mini) for optional FS-36 RS-232C interface port (D-sub-pin)	18 Mbyte (2 Frame memories) USB interface port (version 1.1)
Inputs/Outputs	Video, S-Video	Video, S-Video, RGB	-
Media Tray Capacity	L Size tray : Max. 50 sheets S size tray : Max. 80 sheets		
Power Consumption	100 to 120 V: 1.8A, 220 to 240V : 1.0A		
Power Requirements	AC 100 to 120V, 50/60 Hz, AC 220 to 240, 50/60Hz		
Dimensions	212 (W) x 125 (H) x 395 (D) mm (8 3/8 x 5 x 15 5/8 inches)		
Mass	Approx. 6.5 kg (14lb 5 oz)		
Driver Software	N/A	N/A	Windows® 98/98SE/Me, Windows2000
Safety Standards	UL2601-1, CSA C22.2 No.601.1, EN60601-1		
Supplied Accessories	AC power cord Operation manual Media tray Colour printing pack (10 prints) Thermal head cleaning cartridge	AC power cord Operation manual Media tray Colour printing pack (10 prints)	AC power cord Operation manual Media tray Colour printing pack (10 prints) Thermal head cleaning cartridge CD-ROM (printer driver, ICC profile, online operation manual) USB Cable
Optional Accessories	UPC-21S Colour print pack (for 240 prints) UPC-21L Colour print pack (for 200 prints) UPA-21SA Slide adaptor RM-5500 Wired/wireless remote control unit RM-91 Remote control unit	UPC-21S Colour print pack (for 240 prints) UPC-21L Colour print pack (for 200 prints) UPA-21SA Slide adaptor RM-5500 Wired/wireless remote control unit RM-91 Remote control unit FS-36 Foot switch	UPC-21S Colour print pack (for 240 prints) UPC-21L Colour print pack (for 200 prints) UPA-21SA Slide adaptor

Sony address/contact details/dealer stamp

**SONY**

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