

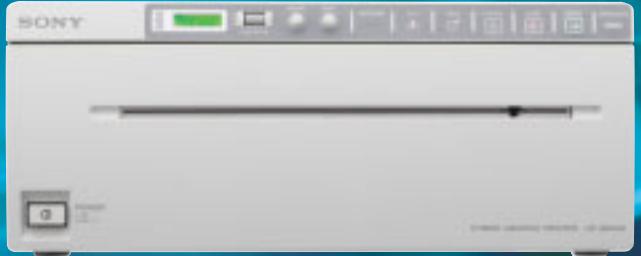
SONY®

Hybrid Graphic Printer

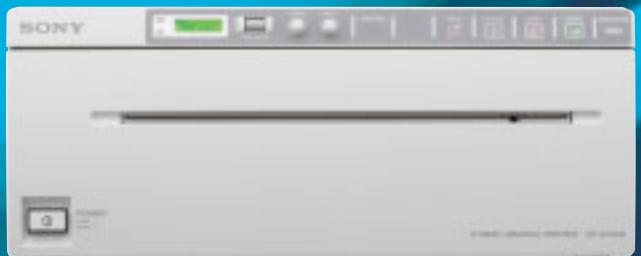
UP-990AD UP-970AD



UP-990AD



UP-970AD



Sony is proud to introduce the UP-970AD and the UP-990AD Hybrid Graphic Printers – the successors to the UP-960 and UP-980, which has been well-received in the medical applications such as C-arm applications and ultrasound.

To meet the current market trend for digital rather than analog C-arm systems, these new models are designed to handle both analog and digital signal input. In addition, Sony direct thermal printing technology delivers photo-like prints at a high speed of just 8 seconds.

With a variety of features packed into their compact bodies, the UP-970AD and the UP-990AD are the ideal choice for a wide range of medical applications.

FEATURES

► Accepting both analog and digital signal input

The UP-970AD/990AD can receive both analog and digital signals, which allows it to support both types of C-arm system. This makes it ideal for today's transitional stage from analog to digital C-arm applications.

► Superb print quality

Incorporating Sony direct thermal-printing technology, the UP-970AD/990AD provides photo-like prints with a high resolution of approximately 325 dpi, which is double the density of predecessor models, UP-960/980.

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UP-980 Analog (162.5 dpi)		UP-990AD Analog (325 dpi)		UP-990AD Digital (325 dpi)

► High-speed printing

The UP-970AD/990AD offers an impressive printing time of approximately 8 seconds* per page, making it ideal for time-critical medical applications.

* When used in standard mode.

► Compact design

The UP-970AD/990AD has a compact design with dimensions of approximately 316 (W) x 132.5 (H) x 305 (D) mm (12 1/2 x 5 1/4 x 12 1/8 inches), which is exactly the same size as predecessor models. This compact body enables it to fit easily into mobile C-arm carts.

► Superior operability

All the operation keys of the UP-970AD/990AD are located on its front panel. This front operation offers easy setup and flexible maintenance when the printer is installed on the cart. In addition, a volume knob on the front panel allows easy adjustment of both contrast and brightness.

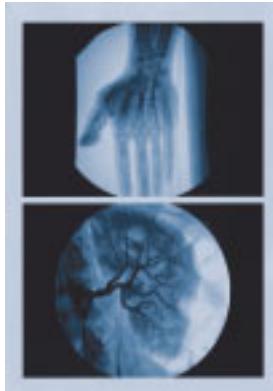
► Automatic detection of paper or film

In case a user inserts film to the printer but the menu setting is paper, an error message will appear on the LCD panel to remind the user to apply the appropriate kind of media.



► Blue transparent film (UP-990AD)

With the UP-990AD, images can also be printed on blue transparent film, which can then be used as reference images for the diagnostics.



The UP-990AD/970AD Application Examples

Printer for C-arm System



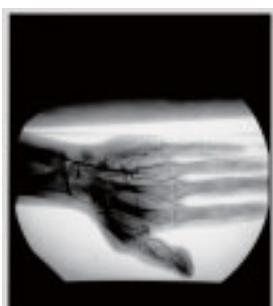
► Automatic media-cutting function (UP-990AD)

When printing has finished on the UP-990AD, the printed paper or film is automatically cut by the media-cutting function.

► Multiple print modes

As well as printing out a single image, the UP-970AD/990AD can also provide two, four, and six split images in one sheet.

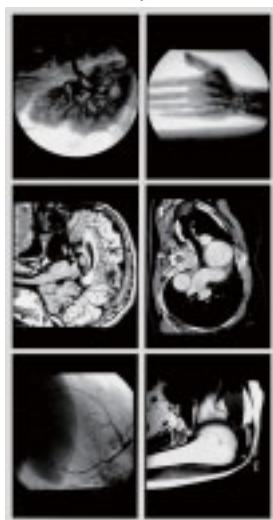
Full



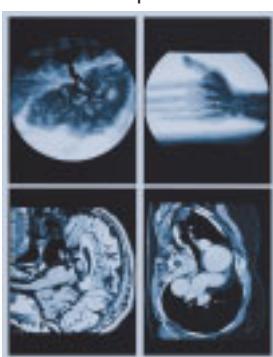
2 Split



6 Split



4 Split



Printer for Ultrasound



The UP-990AD/970AD Application Examples

Printer for C-arm System



Printer for Ultrasound



The UP-990AD/970AD Application Examples

SPECIFICATIONS

UP-990AD/970AD	
Printing method	Direct thermal printing
Resolution	325 dpi
Gradation	256 levels processing
Picture size: standard	Digital: 200 x 150 mm (7 7/8 x 6 inches) NTSC: 188 x 143 mm (7 1/2 x 5 3/4 inches) PAL: 188 x 140 mm (7 1/2 x 5 5/8 inches)
Maximum print pixels: side	Digital: 3414 x 2560 dots NTSC: 1280 x 508 dots PAL: 1280 x 612 dots
Maximum print memory	Digital: Approx. 70 Mbit (Single frame) NTSC: Approx. 31 Mbit (6 frames) PAL: Approx. 38 Mbit (6 frames)
Printing Time	Approx. 8 seconds / image at standard mode printing
Printer driver software	Microsoft Windows 2000, XP
Sharpness	Set up from 0 to 14
Interface	Digital: Hi-Speed USB Analog: Video
Power consumption	100 to 120 V AC: 2.4A 220 to 240 V AC: 1.3A
Power requirements	AC 100 to 120 V, AC 220 to 240 V 50/60 Hz
Dimensions (W x H x D)	316 x 132.5 x 305 mm (12 1/2 x 5 1/4 x 12 1/8 inches)
Mass	Approx.8 kg (17 lb 10 oz)
Safety standards	UL60950-1, CSA C22.2 No.60950-1, UL60601-1, CSA C22.2 No.601.1, EN60950, EN60601-1, IEC60950-1, IEC60601-1
EMC	FCC/IC Class A Digital Device, EN55022 Class B, EN55024, EN61000-3-2/3-3 EN60601-1-2, VCCI Class A + mains harmonic current regulation
Supplied accessories	Head cleaning sheets (1), UPP-210HD High density printing paper (1), BNC cable (1), USB cable (1), Operation guide (Getting Started) (1), CD-ROM (Instruction for use, driver software) (1), Media label (1), Software License Agreement (1)

Printing paper



UPP-210HD
High Density Printing Paper



UPP-210SE
High Quality Printing Paper



UPT-210BL
Blue Transparent Film



UP-990AD/970AD Rear Panel

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RM-91
Remote Control Unit