

UP-971AD

A4 Analog and Digital Printer for Black and White Thermal Paper



Overview

Fast, high quality black & white printing from both analogue and digital imaging inputs onto paper

The UP-971AD is a compact black and white printer designed for use with both analogue and digital radiology imaging systems such as mobile C-arm, ultrasound, cardiac catheterisation laboratory and other compatible medical imaging systems.

Smaller than its predecessor (the UP-970AD), it provides high-quality hard copies of still images captured by the imaging system, that can then be used as reference prints for patient record purposes or referrals. (Please note that images printed from the UP-971AD are not to be used for diagnosis).

Printing options are expanded with a choice of Multi-picture modes for multiple images on a single sheet, plus a panoramic printing capability to produce extra-wide images.

Features

- **Accepts both digital and analogue video input signals**

The UP-971AD can receive digital as well as analogue signals, allowing the printer to support both types of C-arm system. It also can receive signals from two different integrated systems – i.e. analogue from a C-arm and digital from an ultrasound system.

- **High quality printing**

Using Sony's direct thermal printing technology, the UP-971AD delivers photo-quality black & white prints with a high resolution of approximately 325 dpi.

- **High speed printing**

In standard mode, the UP-971AD can deliver a print in approximately 8 seconds.

- **More compact, more visible**

The UP-971AD has a compact design with dimensions of approximately 316 (W) x 132.5 (H) x 265 (D) mm (12 1/2 x 5 1/4 x 10 1/2 inches) – 40mm smaller in depth than its predecessor. At the same time, the size of the LCD display panel is increased, and the control panel features a white LED backlight that offers clear visibility regardless of ambient light levels.

- **Enhanced operability**

All function keys of the UP-971AD are located on the front panel, allowing easy setup and operation when the printer is installed in a medical cart. In addition, separate knobs on the front panel allow easy adjustment of both contrast and brightness and an auto lock function that prevents inadvertent alteration of settings.

- **Multi-picture modes**

As well as printing a single picture, the UP-971AD also offers a choice of two-, four- and six-way split printing of images on a single sheet when connected to an analogue video signal. The 'Multi' button on the front panel allows quick switching between 'Single-picture' and 'Multi-picture' modes. With digital input signals, the printer can provide two or four split pictures on one sheet (NB: Multi button does not function with digital input).

- **Panoramic printing**

When connected to a digital signal, the UP-971AD can produce panoramic prints up to a maximum of 600mm long.

- **Visual print quality control**

Optimum print settings can be compared and chosen from a 'collage' print of nine pictures with different values for brightness, contrast, tone or sharpness.

- **Quick guide print**

Quick instruction guides for different print operations can be selected, via the front control panel, and printed out for your easy reference so that you do not need to refer to the user manual.*

*English only.

- **Compliance with Medical Safety Standards***

This device is compliant and certified for IEC 60601-1 and product safety standards in the U.S.A., Canada and Europe.

*Registration status as a medical device may vary, depending on country.

For more details, please contact your nearest Sony office or an authorised dealer.

Technical Specifications

Specifications	
● Printing Method	Direct thermal printing
● Resolution	325 dpi
● Gradations	8 bits (256 levels) processing
● Picture Elements	Digital: 7680 x 2560 dots Video NTSC: 720 x 504 dots Video PAL: 720 x 604 dots
● Picture Area	DIGITAL: 600 x 200 mm (23 5/8 x 7 7/8 inch) (Max) VIDEO: STD NTSC: 182 x 144 mm PAL: 188 x 140 mm SIDE NTSC: 244 x 184 mm PAL: 244 x 183 mm
● Paper Size	Paper width of 210 mm (8 1/4 inches)
● Printing Time	Approx. 8 seconds/image (in standard mode)
● Picture Memory	Digital: 2816 x 7680 x 8 bits Video: 6 frames (720 x 608 x 8 bits for one frame)
● Interface	
● Printer Driver Software	Microsoft Windows XP 32/64, Vista 32/64, 7 32/64, 8 32/64
● Power Requirements	AC 100 V to 240 V, 50/60 Hz
● Input Current	2.9 A to 1.2 A
● Operating Temperature	5°C to 35°C (41°F to 95°F)
● Operating Humidity	20% to 80% (no condensation allowed)
● Storage and Transport Temperature	-20°C to +60°C (-4°F to +140°F)
● Storage and Transport Humidity	20% to 80%
● Dimensions (W x H x D)	316 x 132.5 x 265 mm (12 1/2 x 5 1/4 x 10 1/2 inch)
● Mass	7 kg (15lb 7oz)
● Safety Standards	(US/CA) ANSI/AAMI ES60601-1, UL 60601-1, UL 60950-1, CAN/CSA-C22.2 No.60601-1, CAN/CSA C22.2 No.601.1, CAN/CSA C22.2 No.60950-1 (EU) EN 60601-1, EN 60950-1 (CB) IEC 60601-1 (2nd/3rd Ed.), IEC 60950-1
● EMC Standards	(US/CA) FCC Part 15 Subpart-B Digital Device Class A, ICES-003 Class A Digital Apparatus (EU) EN 60601-1-2 (Class B), EN 55022 (Class B)+EN 55024, EN 61000-3-2+EN 61000-3-3 (AU) AS/NZS CISPR22 (EN55022) Class B (JP) VCCI Class A, JIS C 61000-3-2 (KR) KN22, KN24 Class B
● EC Directive	(EU) MDD, EMC, LVD
● Supplied Accessories	Print Media (1), Thermal head cleaning sheet (1), CD-ROM (1), Before Using this Printer (1), Service Contact List (1)

Medical Accessories



FS-24
Foot Switch



RM-91
Wired Remote Commander
for medical printers

Medical Black & White Thermal Print Media



UPP-210HD

High density black and white thermal print media for UP-991AD / 990AD / 980AD / 971AD / 970AD / 960AD / 930AD / 910AD medical printers



UPP-210SE

Black and white thermal print media for UP-991AD / 990AD / 980AD / 971AD / 970AD / 960AD / 930AD / 910AD medical printers