

UP-991AD

A4 Analogue and Digital Printer for Black and White Thermal Paper and Blue Film



Overview

Fast, high quality black & white printing from both analogue and digital imaging inputs onto paper or blue transparent film, with USB storage

The UP-991AD 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-990AD), 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-991AD are not to be used for diagnosis).

Offering even more flexible workflow than the UP-971AD, the UP-991AD can store images on a connected USB flash drive and also print on transparent blue film media as well as paper media.

Added convenience is provided by automatic detection of media type and an integrated media cutter, together with the same Multi-picture mode and panoramic print features of the UP-971AD.

Wireless Printing Capability

By using the optional UPA-WU10* Wireless Print System, you can achieve cable-free connection between the Sony digital printer with 5V USB output port**, mobile C-arm and other hospital imaging modalities.

* Product availability of the UPA-WU10 may vary according to the sales area. For more information, please contact your nearest Sony sales office or an authorized dealer.

** For more information about compatible printers, please contact your nearest Sony sales office or an authorised dealer.

Features

Accepts both digital and analogue video input signals

The UP-991AD 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-991AD delivers photo-quality black & white prints with a high resolution of approximately 325 dpi.

High speed printing

In standard mode, the UP-991AD can deliver a print in approximately 8 seconds.

More compact, more visible

The UP-991AD 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-991AD 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.

Blue transparent film and black border mode

Images can be printed on blue transparent film with an optional black border if desired.

Automatic detection of media type

The printer automatically detects whether film or paper media has been loaded, eliminating the need to manually adjust settings when changing print media.

Automatic media cutter

The printer automatically cuts paper or film media to size when printing is completed.

Multi-picture modes

As well as printing a single picture, the UP-991AD 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-991AD 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. They can be printed out for easy reference without needing to refer to the user manual.*

*English only.

USB flash drive storage

The UP-991AD can store either the printed image or captured video frame on a USB flash drive inserted into the USB port on the front of the printer. Stored images can be in colour, provided that the input signal is in colour and Colour mode (for better B&W printing of colour images) is chosen.

Wireless Printing Capability*

The optional UPA-WU10 Wireless Print System allows cable-free connection between the UP-991AD and surgical endoscopes, ultrasound systems, and other hospital imaging modalities. This is ideal for busy clinical environments, where modalities are

constantly being moved between different OR and treatment rooms. This all-in-one wireless printing solution also resolves the problem of limited space on medical carts, allowing connection between a medical imaging modality and an 'off-cart' printer without requiring a lengthy USB cable.

* This function is available to Sony digital printers with USB 5V type A Output port. For more information regarding the compatibility, please contact your nearest Sony office or an authorised dealer.

Compliance with Medical Safety Standards

This product is distributed to the US and EU as a medical device and satisfies product safety standards (e.g. IEC 60601-1).

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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	USB terminal (type A) for USB flash drive (X1) Hi-Speed USB (USB 2.0) (x1) VIDEO INPUT: BNC type (X1) NTSC or PAL composite video signals 1.0Vp-p, 75ohm (NTSC/PAL automatically discriminated) VIDEO OUTPUT: BNC type (x1) Loop-through REMOTE: Stereo mini jack (x1)
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)
Supplied Accessories	Print Media (1), Thermal head cleaning sheet (1), CD-ROM (1), Before Using this Printer (1), Service Contact List (1)

Gallery

