

# UP-971AD / UP-991AD

The UP-971AD and UP-991AD are unique hybrid black and white graphic printers that support both analog and digital applications. This dual compatibility is especially critical as imaging systems make the transition from analog to digital technology. The full-page UP-971AD and UP-991AD offer resolution of 325 DPI for superb image quality and faster print speed of approximately 8 seconds. The UP-991AD's optional blue transparency media produces high quality film-like transparencies. As an extra convenience the UP-971AD and 991AD uses the same media as the predecessor model — UPP-210HD and UPP-210SE. These and other printer features make the UP-971AD and UP-991AD ideal for medical black and white applications such as ultrasound, mobile c-arm, and cardiac cath lab.

## Hybrid Graphic Printer



### Features:

- Analog video and digital USB 2.0 interfaces
- Fast print speed of approximately 8 seconds
- Optional blue transparency film (UP-991AD only)
- Excellent print quality and contrast
- Front panel LCD display for easy operation
- Automatic detection of paper or film (991AD Only)
- Multiple images per sheet capability (two, four, six)
- Fully automatic media cutter (991AD Only)
- Compact design for easy integration into cart-based imaging systems
- Worldwide power supply and video signal compatibility

Paper & Film	15.7 lb	325 DPI	256 gradation steps	8 secs per print	USB 2.0 interface
--------------	---------	---------	---------------------	------------------	-------------------

## UP-971AD / UP-991AD Specifications

Dimensions (W x H x D)	12 1/2in x 5 1/4in x 10 1/2in (316mm x 132.5mm x 265mm)
Weight	15lb 7oz (7kg)

Print information	Digital Connection	Analog Connection
Print technology	Direct Thermal Printing	
Resolution	325 DPI	
Gradations	8 bits (256 levels)	
Picture elements	7680 x 2560 dots	720 x 504 (NTSC), 720 x 604 (PAL)
Picture area	23 5/8 x 7 7/8in 600 x 200mm	STD: 182 x 144mm (NTSC), 188 x 140mm (PAL) SIDE: 244 x 184mm (NTSC), 244 x 183mm (PAL)
Print time	8 seconds approximately	8 seconds approximately
Memory	2816 x 7680 x 8 bit	6 frames (720 x 608 x 8 bit for one frame)
Printer driver	Windows XP 32/64 bit Vista 32/64 bit Windows 7 32/64 bit Windows 8 32/64 bit	N/A

## Interface

Interface	Input: High speed USB (USB 2.0)*	<b>Input connector:</b> VIDEO IN (BNC type) NTSC or PAL composite video signals 1.0 Vp-p, 75 ohms/high-impedance (NTSC/PAL automatically discriminated) <b>Output connector:</b> VIDEO OUT (BNC type) NTSC or PAL composite video signals 1.0 Vp-p, 75 ohm loop-through <b>Remote connector:</b> stereo mini jack
-----------	-------------------------------------	--

\*USB (type A) port to store pictures to a plugged in USB flash drive (Only UP-991AD)

## Power information

Power requirements	100 to 240V AC, 50/60Hz
Input current (Stand by)	2.9A to 1.2A (0.04A to 0.08A)

## Operating conditions

Temperature	41°F to 95°F / 5°C to 35°C
Humidity	20% to 80% (noncondensing)

## Storage and Transport

Temperature	-4°F to +140°F / -20°C to +60°C
Humidity	20% ~ 80%

## Standards

Safety	(US) UL 60950-1, 60601-1, ANSI/AAMI ES60601-1 CSA C22.2 No.60950-1, No.601.1, No. 60601-1
EMC	FCC Part 15 Subpart-B Digital Device Class A

## Accessories

Supplied	(1) Thermal Head Cleaning sheet, (1) CD-ROM (Operating instructions, Printer driver), (1) "Before using this printer", (1) Service contact list, (1) Starter pack UPP-210HD, (1) AC cord
Optional	RM-91 Remote Thumb button

## UP-991AD Rear Panel



## Print Media



### UPP-210HD

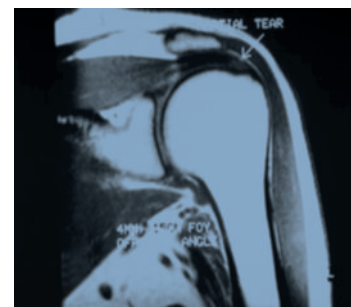
High Density Black & White Media

### UPP-210SE

Standard Black & White Media

### UPT-210BL

Blue Thermal Transparency Film



**SYNERGY** medical inc

8069 mexico rd  
st. peters, mo 63376

For US Sales

office: 636.928.2800  
email: [info@synergymedco.com](mailto:info@synergymedco.com)  
[www.synergymedco.com](http://www.synergymedco.com)

©2014 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. All non-metric weights and measurements are approximate. Features and specifications are subject to change without notice. Sony is a trademarks of Sony. All other trademarks are trademarks of their respective owners.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.  
Caution: See product labeling for indications, contraindications, warnings, cautions and directions for use.

ME-971/AD/991/AD