

# 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<br>600 x 200mm   | STD: 182 x 144mm (NTSC), 188 x 140mm (PAL)<br>SIDE: 244 x 184mm (NTSC), 244 x 183mm (PAL) |
| Print time       | 8 seconds<br>approximately  | 8 seconds<br>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<br>Vista 32/64 bit<br>Windows 7 32/64 bit<br>Windows 8 32/64 bit | N/A   |

### Interface

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



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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.

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