

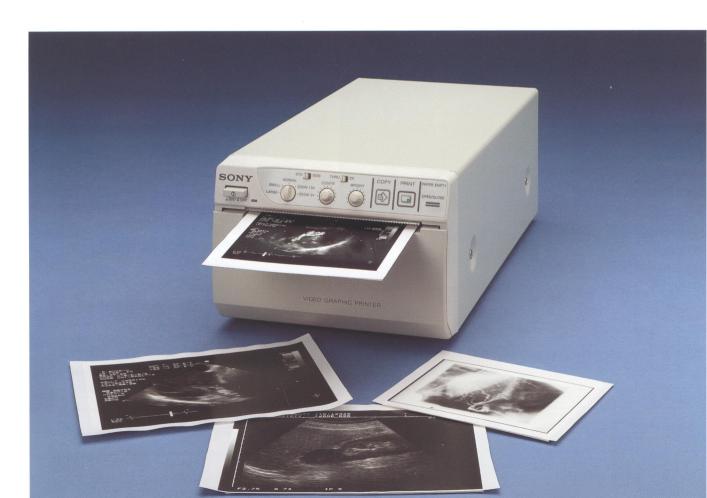
UP-890MD Black and White Video Graphic Printer

Sony's UP-890MD black & white video graphic printer is designed specifically for use with medical diagnostic equipment, such as ultrasound systems, to provide detailed black and white images in 4 seconds. This model prints in both standard and side modes. Additionally, the UP-890MD is an international model -- accepting signals from both NTSC and PAL. A worldwide power supply for 100V to 240V is included.

Features

- High dot density of 10.2 dots/mm
- International compatibility for EIA (525 lines) and CCIR (625 lines)
- Worldwide power supply for 100-240V
- Multiple print modes for both standard and side print: Zoom 1.5x, Zoom 2.0x, large and small (prints two images side by side)

- Hard copy prints in 4 seconds
- 256 shades of gray
- New high dynamic range paper: UPP-110HA
- U/L-544 listed and TÜV (component) Approved; EN60601-1



UP-890MD Black and White Video Graphic Printer

Thermal Head:

1024 dot

Gradations:

256 gray levels

Effective Pixels:

508 lines x 1024 dot (EIA) 608 lines x 1024 dot (CCIR) Approx. 75 x 100mm (4:3)

Picture Size:

Approx. 100 x 100mm (1:1)

Print Modes:

Normal Mode: Prints the image exactly as

it appears on the display

Small Mode: Reduces two images and

prints them side by side

Zoom 1.5x Mode: Prints the image after

expanding it 1.5 times

Zoom 2x Mode: Prints the image after

expanding it 2.0 times

Large Mode: Extracts a vertical strip from the center of the screen, and prints it after expanding it 2.0 times vertically and

horizontally

Printing Speed:

STD mode: 4.0 seconds SIDE mode: 7.0 seconds

Picture Memory:

1024 x 768 x 6 bit

Input Terminal:

Composite video signal (BNC, 75

ohms/high impedance)

Output Terminal:

Composite video signal (BNC, 75 loopthrough E.E.)

Remote Terminal:

Sampling Frequency: Function Switches:

(front panel)

Stereo mini jack 18.432 MHz Contrast/Bright Control

Loop-Through/E.E. STD print/Side print select Print mode select switch

(NORMAL, SMALL, LARGE, ZOOM 1.5X,

ZOOM 2.0X)

Function Switches: (back Panel)

GAMMA curve select switch PAPER TYPE select switch

DIP SW

Power Supply: AC 100-240V, 50/60Hz

Dimensions: Approx. 154(W) x 106(H) x 303(D) (mm)

Weight: 3.7 Kg (8 lb 2 oz) Compliance:

U/L-544 Listed, TÜV (component)

approved; EN 60601-1

Supplied AC Power Cord Accessories:

BNC Cable

RM-91 Remote Commander®

UPP-110HA (1 roll) Head cleaning sheet

Optional

Accessories: Media:

Foot Switch (FS-20)

UPP-110S standard paper (approx. 270

prints/roll)

100.4x74.0 mn

UPP-110HD high density paper (approx.

270 prints/roll)

UPP-110HA high dynamic range paper

(approx. 240 prints/roll)

Effective pixel number and printing size in each print mode

STD Print

Cmall made

VOITILE	al IIIoue			
		EIA	CCIR	
normal	effective pixel	922x472 dot	922x560 dot	
normai	printing size	90.4x69.0 mm	90.4x68.2 mm	_
wide 1	effective pixel	970x490 dot	970x582 dot	_
wide i	printing size	95.1x71.6 mm	95.1x70.9 mm	_

100.4x74.2 m

printing size

		EIA	CCIR
normal	effective pixel	462x236 dot	462x280 dot
	printing size	45.2x34.5 mm	45.2x34.1 mm
wide 1	effective pixel	486x245 dot	486x291 dot
	printing size	47.5x735.8 mm	47.5x35.4 mm
wide 2	effective pixel	512x254 dot	512x304 dot
	printing size	50.2x37.1 mm	50.2x37.0 mm

Side Print

Normal mode

		EIA	CCIR
normal	effective pixel	922x472 dot	922x560 dot
	printing size	90.4x69.0 mm	90.4x68.2 mm
wide 1	effective pixel	970x490 dot	970x582 dot
	printing size	95.1x71.6 mm	95.1x70.9 mm
wide 2	effective pixel	1024x508 dot	1024x608 dot
	printing size	100.4x74.2 mm	100.4x74.0 mm

Small mode

		EIA	CCIR
normal	effective pixel	462x472 dot	462x468 dot
	printing size	45.2x34.5 mm	45.2x34.1 mm
wide 1	effective pixel	486x490 dot	486x486 dot
	printing size	47.5x735.8 mm	47.5x35.4 mm
wide 2	effective pixel	512x508 dot	512x508 dot
	printing size	50.2x37.1 mm	50.2x37.0 mm

Back Panel



Media



SONY®





Sonv Medical **Systems**

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Caution: See product labeling for indications, contraindications, warnings, cautions and directions for use.