SONY

UP-DF550

Digital film imager

The UP-DF550 is a digital film imager incorporating dual film tray which accommodates four film sizes.

Features

Two Film Supply Trays to Accommodate Multiple Film Sizes

The UP-DF550 Film Station- while retaining nearly the same compact body size as the UP-DF500-supports four different film sizes 14 x 17, 11 x 14, 10 x 12 and 8 x 10 inch Sony Blue Thermal Film. These various print sizes make it suitable for a variety of diagnostic modality printing tasks. The UP-DF550 is equipped with two film supply trays, each with a capacity of 125 sheets. The upper tray is dedicated only for 14 x17 inch films, while the lower tray is applicable for all other sizes. The printer is also equipped with an output tray to sort out into 14 x 17 inch film prints and all other sizes. This makes it easy for users to locate the printed films they need, quickly and easily.

Flexible Installation and Space-saving Design

Thanks to an innovative printing mechanism, the UP-DF550 has a compact design with approximate dimensions of 600 (W) x 316 (H) x 686 (D) mm and a weight of only 63 kg. The printing mechanism also enables the UP-FD550 to be oriented vertically as well as horizontally. The footprint is one of the smallest in its class at only 686 x 316 mm, which is almost same as the UP-DF500 when it is placed vertically. A vertical installation is ideal when space is limited or the unit must be integrated into your CT or MRI control room, mobile coach, or military ship etc. Plus, you can easily move the UP-DF550 using the bundled carts, which is equipped with a roller.

Easy Network Parameter Settings

Network settings such as an IP address can be easily controlled via the front panel of the UP-DF550 without having to use any other tool, like a Windows® PC or web browser.

Large Effective Print Area and Edge-to-Edge-like Printing

The UP-DF550 can print edge to edge on the horizontal plane- leaving only blank areas at the top and bottom of the film. Thanks to a new film transportation mechanism, the UP-DF550 realizes a larger print area than the UP-DF500. When using 14 x 17 inch film, the UP-DF550 covers a 13.6 x 16.4 inch size print area (4,360 x 5,232 pixels).

Fast Throughput

The UP-DF550 can reproduce precise diagnosis images at a productive rate of up to 64 sheets of film per hour on 14 x 17 inch (354 x 430 mm) thermal film. When printing on the smallest 8 x 10 inch size film, the printer can produce up to 80 sheets of film per hour.

Rear Cover for Easy Maintenance

The UP-DF550 is equipped with two rear covers that give you easy access to fix film jams easily.

Gamma Curve Settings

The UP-DF550 has a capability of gamma curve settings to reproduce exact gray scale contrast which users want. The UP-DF550 can save the default fixed gamma curve and 19 changeable gamma curves to get the best fit gray scale contrast from multiple modalities.

DICOM Connectivity

In accordance with worldwide medical imaging communications standards, the UP-DF550 is equipped with a DICOM interface, which enables it to be connected to a hospital imaging network.

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Quick Warm-up Time

From the moment it is turned on, it takes only two minutes before the UP-DF550 is ready to start printing. It's effective in emergency use.

Dust-resistant Mechanism

To prevent dust particles and other foreign matter drawn through the cooling fans from accumulating onto the film, the UP-DF550 has been designed with two completely separate sections, an electronics section and a mechanical section. In addition, the area of contact between the thermal head and the film is totally isolated from those air flows. To further prevent foreign matter from damaging your prints, the film remains inside the UP-DF550 until the printing process is completed. If dust particles do come to rest on the film pass, a dust cleaning roller positioned in front of the thermal head cleans the surface of film before printing. Since the dust cleaning roller is disposable, users can easily replace it when it becomes dirty.

Environmentally Friendly

The UP-DF550 adopts a totally environmentally friendly printing system. No liquid chemical is used in the printing process and no chemical waste is produced after printing. Furthermore, Sony thermal film doesn't contain any metal component like silver. So it can be treated as household waste, rather than as industrial waste.

Reliable Sony Blue Thermal Film

The Sony Blue Thermal Film has been especially designed for use with the Film Station to provide high-contrast and high-density images with higher durability. By reproducing precise and stable diagnostic images, medical examiners can make accurate medical assessments. Additionally, unlike conventional film, it can be handled in daylight. This allows you to easily perform all necessary procedures, - from refilling films to printing images - in any hospital environment. The IC tag is implanted into protection sheet of the film. By reading the IC tag data, the UP-DF550 recognizes remaining quantity of films.

Technical Specifications

Printing method	Direct thermal printing
Resolution	320 dpi
Processing data depth	12 bit processing
Effective print pixels	5,232 (H) x 4,360 (W) dots
Gradations	4,096 levels
Throughput	Approx. 64 sheets per hour (when printing on 14 x 17 inch film)
Film supply tray	Two trays (one for UPT-517BL, one for UPT-514BL, UPT-512BL, UPT-510BL)
Film supply tray capacity	125 sheets per tray
Media size	14 x 17 inch, 14 x 11 inch, 10 x 12 inch, 8 x 10 inch
Maximum print size	415.3 x 346.1 mm (UPT-517BL)
Interface	DICOM (RJ-45 modular jack)
Power requirements	AC 100 to 240 V, 50/60 HzÂ
Power consumption	4.4 to 1.8 A
Time from power-on to ready	Approx. two minutes
Operating temperature	10Â°C to 30Â°C (50Â°F to 86Â°F)
Operating humidity	20% to 80% (no condensation allowed)
Dimensions	600 (W) x 316 (H) x 686 (D) mm (23 5/8 x 12 1/2 x 27 1/8 inches)
Mass	Approx. 63 kg (approx. 138 lb 14 oz)
Supplied accessories	Film supply trays (2), Output tray (1), AC power cord (1), Before Using This Printer (1), Cleaning kit (1), Instruction manual (CD-ROM), Carts with rollers (2), Stopper sheet for carts (1), Warranty card (1)
Safety regulation	UL60601-1, CSA C22.2 No.601.1, FCC/IC Class A Digital Device, EN60601-1, EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, IEC60601-1