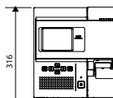
UP-DF750 Specifications

System	
Printing system	Direct thermal printing
Resolution	604dpi
Gradations	16 384 level processing (14 bits)
Picture elements	8,256 x 9,888 dots (w/h) (UPT-517BL)
Throughput	Approx. 75 prints per hour for 14 x 17 inch film Approx. 90 prints per hour for 8 x 10 inch film
Film supply tray	2 trays
Tray capacity	125 sheets per tray
Maximum density	3.8 and higher with UPT-M712BL/M710BL
Interface	DICOM
Measurements	
Supported film sizes	14 x17 inches, 11 x14 inches, 10 x12 inches, 8 x10 inches
Dimensions	Approx. 600 (W) x 316 (H) x 686 (D) mm (excluding projecting parts)
Mass	Approx. 65 kg
Power	
Requirements	AC 100-120 V/ AC 200-240 V, 50/60 Hz
Input current	4.4 to 2.4 A
Operating conditions	
Temperature	10°C to 30°C (50°F to 86°F)
Humidity	20% to 80% (non condensing)
Pressure	700 hPa to 1,060 hPa
Storage/Transporting conditions	
Temperature	-20°C to +60°C (- 20°F to +140°F)
Humidity	20% to 80% (non condensing)
Pressure	700 hPa to 1,060 hPa
Supplied accessories	
	Output tray (1), Cleaning kit (1), Output stopper (1), Film tray size adapter kit (1), Caster for setting the printer vertically (2), Stopper sheet (1). Before using this printer (1), CD-ROM (1), Floppy disk (1), Warranty card (1) (for customers in the USA and Canada)

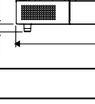
Safety regulations

USA: UL – UL60601-1, UL60950-1. FCC – 47CFR Part 15 Subpart B Class A Digital Device. **Canada:** c-UL (orCSA) – C22.2 No.601.1, C22.2 No.60950-1. IC – ICES-003 Class A **Europe:** CE (LVD) – EN60950-1 EN50371, CE (EMC) – EN55022/ClassB + EN55024, EN61000-3-2 + EN61000-3-3, CE (MDD) – EN60601-1 + EN60601-1-2 CE (R&TTE) – EN60950-1, EN50371, EN55022 ClassB + EN5502+EN6100-3-2, + EN61000-3-3, EN301489-1, EN301489-3, EN300330-2, EN302291-2 **Australia C-Tick:** (EMC) – AS/NZS CISPR22 Class B **China:** CCC – GB4943 + GB9254, GB17625.1 **Common CB:** IEC60950-1, IEC60601-1

Optional accessories



UPT-517BL:
Blue Thermal Film
Contents: 125 sheets of print film
Paper size: 354 x 430 mm (14 x 17 inches)



UPT-514BL:
Blue Thermal Film
Contents: 125 sheets of print film
Paper size: 279 x 354 mm (11 x 14 inches)

UPT-512BL:
Blue Thermal Film
Contents: 125 sheets of print film
Paper size: 253 x 304 mm (10 x 12 inches)

UPT-510BL:
Blue Thermal Film
Contents: 125 sheets of print film
Paper size: 202 x 253 mm (8 x 10 inches)

UPT-M712BL:
Blue Thermal Film for Mammography
Contents: 125 sheets of print film
Paper size: 253 x 304 mm (10 x 12 inches)

UPT-M710BL:
Blue Thermal Film for Mammography
Contents: 125 sheets of print film
Paper size: 202 x 253 mm (8 x 10 inches)

UPA-500L:
Cleaning kit
Contents: Cleaning roller x 5, Cleaning paper x 5, Wrapping film x 1

Dimensions

Distributed by

SONY

Sony is pleased to publicise Breast Cancer Awareness

CA UP-DF750/GB- 02/09

Our quality. Your confidence.

UP-DF750 digital film imager.

SONY

www.sonybiz.net/healthcare

FILMSTATION™

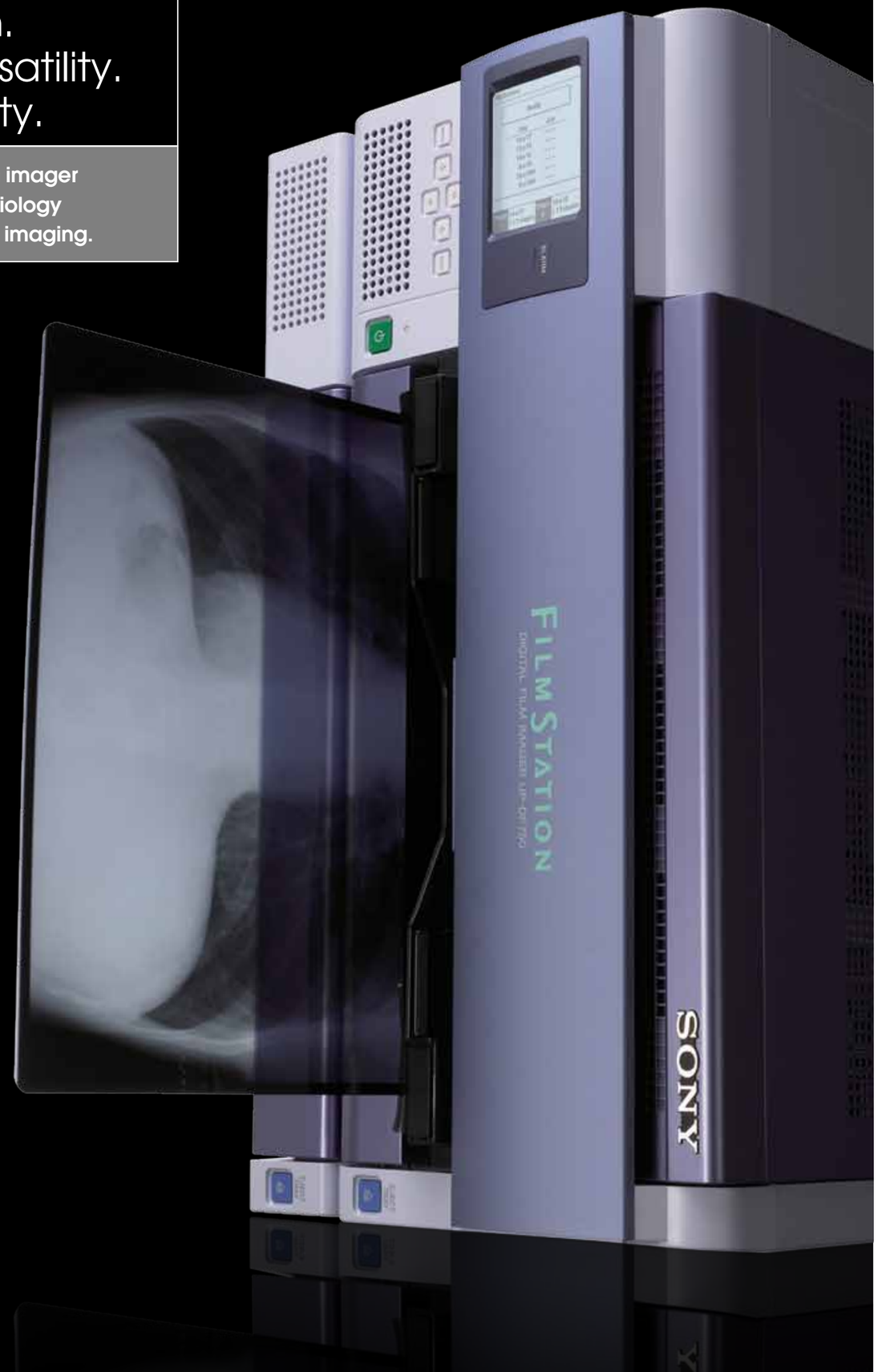
Space-saving design. Multi-application versatility. Superior image quality.

Our UP-DF750 FILMSTATION™ digital film imager creates confidence across multiple radiology applications, including mammography imaging.

The UP-DF750 equips practitioners with an exceptionally compact, versatile and high-quality diagnostic film imager. With its impressively small footprint, the highly compact, workflow-friendly UP-DF750 can be vertically mounted in space-restricted environments, giving you major operational advantages over large, centralised film imagers.

Reproducing high-quality prints of 604 dpi, with a maximum density of 3.8+ using high-density film, the UP-DF750 is particular suitable for mammography imaging. It can deliver multiple film sizes – 8 x 10, 10 x 12, 11 x 14, and 14 x 17 inch are available for a variety of applications – to provide both mammography imaging and cost-efficient diagnostic images for any other field of radiology.

Succeeding the design platform of the UP-DF500 and UP-DF550, the UP-DF750 is ideal for applications ranging from MRI/CT to CR/DR and mammography.



Minimal size, maximum benefits.

Space-saving design with vertical installation.

- Innovative printing mechanism enables highly compact, space-saving design.
- Approximate dimensions of 600(W) x 316(H) x 686(D) mm.
- Weight of only 65 kg.
- Printing mechanism enables vertical as well as horizontal installation.
- Vertical installation further enables unit to be set to whatever mount direction is required by the site environment.
- Footprint when vertically installed is one of the smallest in its class at only 686 x 316 mm.
- Ideal when space is limited or the unit must be integrated into environments such as CT or MRI control rooms, mobile coaches or military applications.
- Supplied casters ensure easy slide-in/ slide-out accessibility when the unit is positioned under desks or tables.

Superior image reproduction.

- Incorporates Sony direct thermal printing technology to ensure superb-quality prints.
- High resolution capability of 604 dpi.
- Superior diagnostic image clarity and accuracy is produced by combining proven Sony thermal printing technology with a newly-developed thermal printing head and an improved PQC (Picture Quality Control) feature.
- Suitable for mammography diagnostic imaging through high resolution of 604 dpi, 14 bit greyscale processing and maximum optical density of 3.8+ (when used with UPT-M712BL and UPT-M710BL mammography blue film).

Casters

Dust-resistant mechanism.

- Completely separate electronics and mechanical sections protects film from dust particles and other foreign matter drawn through cooling fans.
- Area of contact between thermal head and film is also totally isolated from air flows.
- To further prevent foreign matter from damaging prints, film remains inside the UP-DF750 until the printing process is completed.
- Additional cleaning rollers as well as dust cleaning rollers clean the surface of the film before printing.
- Disposable dust cleaning roller ensures easy replacement when contaminated.

Reliable printing mechanism.

- Unique print-feed mechanism firmly holds each sheet of film between multiple belts during printing process.
- This mechanism ensures that, even if the unit is installed vertically, the printing process remains stable and each sheet is fed with precision.

Flexible display orientation.

When the unit is mounted vertically, the display orientation can be rotated accordingly using a simple menu setting – enabling users to read information on the LCD easily, no matter which direction the printer is installed in. The orientation of the cursor control buttons changes along with the display orientation, making the imager easy to operate in every position.

Reliable Sony Blue Thermal Film.

- Providing high-contrast and high-density images with superior durability, Sony Blue Thermal Film is specially designed for use with Sony FilmStation™ units.
- This reproduction of precise and stable diagnostic images helps clinicians make accurate medical assessments.
- Additionally, unlike conventional film, Sony Blue Thermal Film can be handled in daylight, enabling users to easily perform all necessary procedures – from refilling films to printing images – in any medical environment.
- Sony Blue Thermal Film media for FilmStation™ is equipped with dynamic IC tags that inform the printer about the film size and film type, as well as the remaining quantity of film. IC tag recognition is fully automated and ensures that users are always up-to-date.

Stable optical density of film.

Sony Blue Thermal Film is designed to deliver extremely stable greyscale reproduction results. It maintains its integrity even in adverse environments.

New Sony Blue Thermal Film for mammography.

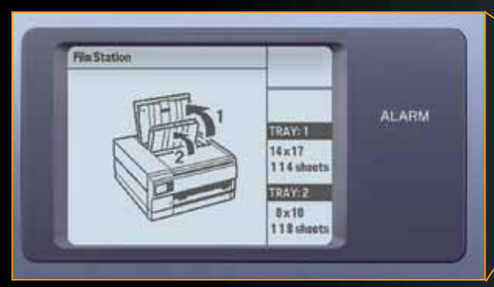
- In addition to the current FilmStation™ film range, the UPT-M710BL (8 x 10 inch) and UPT-M712BL (10 x 12 inch) have been newly developed for mammography image prints.
- These new films reproduce precise and stable diagnostic images with a maximum density of 3.8+.

Film sizes for various applications.

- Range of film sizes ensure the UP-DF750 is suitable for a variety of diagnostic modality printing tasks.
- The unit supports four different film sizes: 14 x 17, 11 x 14, 10 x 12 and 8 x 10 inch prints.
- For mammography, 10 x 12 and 8 x 10 inch films are available.

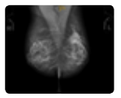
Large 3.8-inch graphic LCD.

Large 3.8-inch graphic LCD displays a range of helpful information with graphical images – for example, error messages are shown together with a visual procedure for correcting them.



For mammography

8 x 10 inch



10 x 12 inch

For CR/DR

14 x 17 inch

11 x 14 inch

10 x 12 inch

8 x 10 inch

For MRI/CT

14 x 17 inch

Resistor value compensation for thermal head elements.

To compensate and minimise differences of resistor values among thermal elements, the UP-DF750 is equipped with built-in resistor value compensation data for the thermal head.

Full-range calibration.

The UP-DF750 features a built-in densitometer that measures the optical density of the films. It enables the automatic calibration of the film-printer combination, ensuring optimal print results every time.

Language support.

The UP-DF750 supports English, Russian, Chinese and Spanish, one of which can be selected as the LCD display language.

DICOM connectivity.

- The UP-DF750 is equipped with a DICOM 3.0 interface, enabling it to be connected to a hospital imaging network in accordance with worldwide medical imaging communications standards.
- Advanced DICOM configuration tool enables customization of DICOM communication to adapt to virtually any modality.

Gamma curve settings.

- Adjustable gamma curves ensure reproduction of exact greyscale contrast required.
- Dedicated gamma curves for both UPT-51XBL standard blue film as well as UPT-M71XBL mammography blue film.
- A total of 40 gamma curves are available, enabling users to achieve the best-fit greyscale contrast for multiple applications and modalities.

Easy network parameter settings.

All network and DICOM-related settings – such as IP address, AE title and port number – can be configured easily via the front panel. Multiple network configurations enable users to easily configure and change network presets for mobile installations.

Large effective print area and seamless edge-to-edge printing.

- The unit's precise mechanical control system and a new wide thermal head enable the UP-DF750 to print edge-to-edge on the horizontal plane – leaving only blank areas at the top and bottom of the film.
- Enables clinicians to view films side by side without any glare from blank borders.
- When using 14 x 17 inch film, the UP-DF750 covers a 346.7 x 415.3 mm print area (8,256 x 9,888 dots).

Environmentally friendly.

- The UP-DF750 operates a totally environmentally friendly printing system.
- No liquid chemical is used in the printing process and no chemical waste is produced after printing.
- Because Sony Blue Thermal Film does not contain any metal component like silver, it can be treated as household rather than industrial waste.

Quick warm-up time.

From the moment it is turned on, the UP-DF750 takes only two minutes before it is ready to start printing – making it highly effective in emergency use.

Two fully flexible film trays.

- Designed with two film supply trays, each with a capacity of 125 sheets.
- No restriction on the size and type of film that can be inserted. The same film size and type can be used in both trays if required, boosting the online film supply to 250 sheets.
- Output tray sorts film prints according to their size, making it simple for users to locate the printed films they need, quickly and easily.

Film Trays

		
UPT-517BL ✓	UPT-514BL ✓	UPT-512BL ✓
		
UPT-M710BL ✓	UPT-M712BL ✓	UPT-510BL ✓