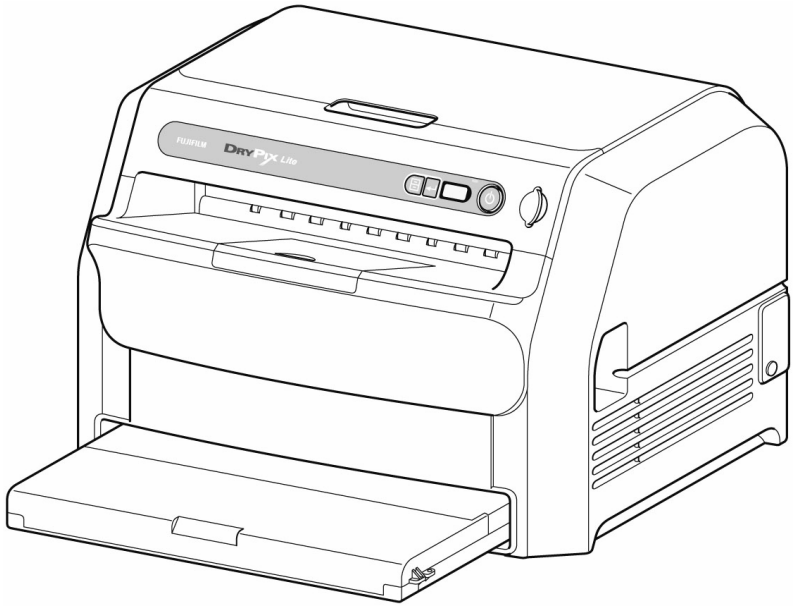
FUJIFILM

Fuji Medical Dry Imager

DRYPIX Lite

Product Specifications



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Contents

1. Overview

The Fuji Medical Dry Imager DRYPIX Lite is a device that prints digital image data output from FCR / FDR Image Reader or CT, MRI and other imaging modalities onto dedicated film in a selected format.

2. Features

(1) Water, developer, fixer and other chemicals are completely unnecessary, doing away with the need for drainage and exhaust facilities and related construction. There is also no need for space to store chemicals.

(2) Chemical handling, replenishment, disposal processing and the related time and effort are not necessary. Moreover, environmental pollution is prevented.

(3) Small, compact design permits placement almost anywhere.

(4) Adoption of the thermal head recording system enables printout processing of about 50 films/hour (14”x17”), 65 films/hour (10”x12”), 75 films/hour (26x36cm) and 90 films/hour (8”x10”).

(5) 14”x17”, 10”x12”, 26x36cm and 8”x10” film sizes are supported.

(6) With a supply magazine loaded accordingly, films can be inserted under daylight conditions.

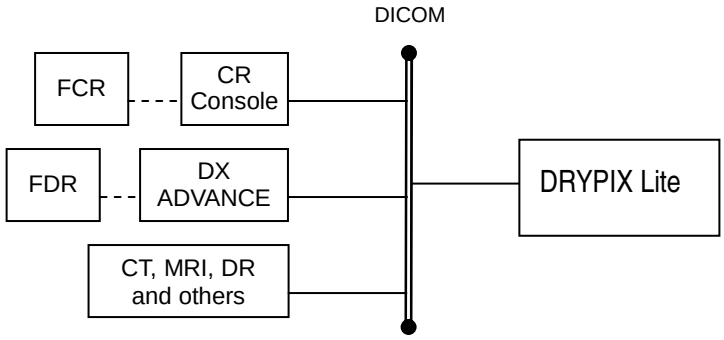
(7) The two supply magazines, loaded by means of the optionally extended magazine unit, enable the two film types selected from 14”x17”, 10”x12”, 26x36cm and 8”x10” sizes to be inserted.

(8) Directly connectable to the DICOM network.

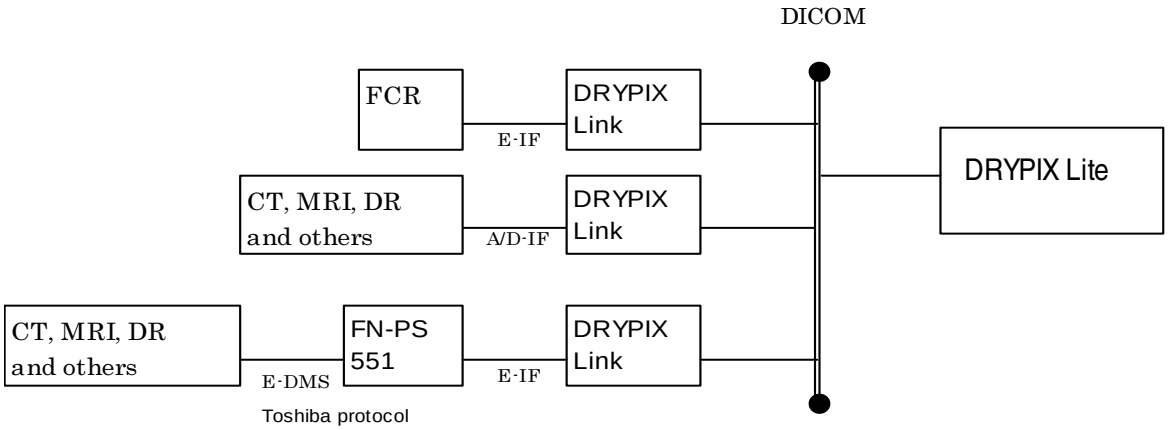
(9) Power consumption of the equipment can be saved by setting Economy Mode.

3. System Block Diagram

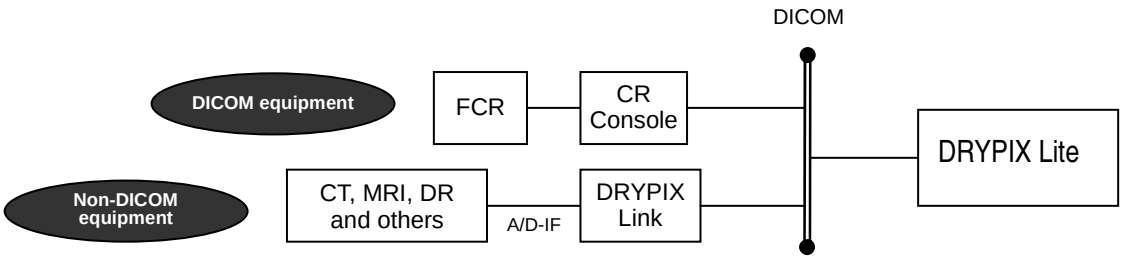
3.1 Example of a Connection to the DICOM Equipment



3.2 Example of a Connection to the Non-DICOM Equipment



3.3 Example of a Connection When the DICOM and Non-DICOM Equipment are Used Mixedly



* DRYPIX Link is used for connection to imaging modalities not connected to the DICOM network.
* FN-PS551 + DRYPIX Link are used for connection to imaging modalities connected to the E-DMS/Toshiba protocol-conformed network.

4. System Components

4.1 Standard Components

(1) DRYPIX Lite main unit 100V to 240V (One-magazine type)

(2) Main unit software CD

(3) One set of Operation Manuals

(4) One set of fuses

(5) Film cutter

4.2 Options

(1) Optional sheet-feeder unit

* Supply magazine is not included. (Should be purchased separately.)

4.3 Supplies

(1) Large magazine : 14”x17” film size

(2) Small magazine : 10”x12”, 26x36cm, 8”x10” film size

(3) Fuji Medical Dry Imaging Film DI-HT

* The DI-HT film is used exclusively for the DRYPIX Lite（DRYPIX 2000) and not applicable to other models.

35 × 43cm (14"×17")	100 films / pack
25 × 30cm (10"×12")	100 films / pack
26 × 36cm	100 films / pack
20 × 25cm (8"×10")	100 films / pack

5. Specifications

5.1 Image Recording System

Thermal head recording system

5.2 Processing Capacity

Film size	Processing capacity
35×43cm(14"×17")	Approx. 50 films/hour
25×30cm(10"×12")	Approx. 65 films/hour
26×36cm	Approx. 75 films/hour
20×25cm(8"×10")	Approx. 90 films/hour

* Processing capacity achieved when this equipment is in actual use will depend on the model of the connected imaging modality and how it is used.

5.3 Time Required for Output of 1st Film

Approx. 105 sec. (14"×17" size for test printing)

5.4 Time Required for Startup

- Approx. 4 minutes under 25°C room temperature conditions
- Approx. 3 minutes under 25°C room temperature conditions in Sleep Mode

5.5 Recording Pixel Size

84.7 μm (300dpi)

5.6 CR Image Scaling

The function of exact size outputting from CR allows the device to print images onto films at almost 100% ratio out of the actual dimension.

*The device scales images automatically along recording area of films during outputting from modality.

5.7 Maximum Number of Recording Pixels

35 × 43cm (14"×17")	4160×5008
25 × 30cm (10"×12")	2912 × 3514
26 × 36cm	4212×2972
20 × 25cm (8"×10")	2928×2334

5.8 Recording Gradation

12 bits

5.9 Maximum Density

3.0

5.10 Number of Input I/F

DICOM network input ×1 channel only.

5.11 Number of Connectable Equipment Units

A maximum of 64 equipment units can be registered.

* The no. of equipment units connectable for actual operation will depend on the model, processing volume and usage method of the imaging modalities connected.

5.12 Connectable Modalities and Devices

(1) Connectable to various imaging modalities that provide support to the DICOM print function.

(2) DRYPIX Link is used for connection to imaging modalities not connected to the DICOM network.

(3) Major FujiFilm devices connectable to the DRYPIX Lite include:

- DRYPIX Link
- DRYPIX Station Image Manager
- DRYPIX Station Print Manager
- CR Console Series
- HI-C655
- QA-WS771

5.13 Film Supply

Loading port: A maximum of two supply magazines can be used. (Additional sheet-feeder unit is available as an option.)

Loading system: Loaded under daylight conditions.

5.14 Stackable Films

A maximum of 20 films.

5.15 Density Calibration Function

Automatic density calibration function incorporated.

5.16 Memory Capacity

Standard : 1GB

5.17 Format

(1) Standard format (for all film sizes)
1, 2, 3, 4, 6, 8, 9, 12, 15, 16, 18, 20, 24, 25, 28, 30, 32, 35, 36, 40, 42, 48, 49, 54, 56, 60, 63, 64, 70

(2) Mixed format

- 14"×17" Portrait mixed format .....6 formats
- 10"×14" (26×36cm) Portrait mixed format.....1 format
- 10"×14" (26×36cm) Landscape mixed format.....4 formats
- 8"×10" Portrait mixed format .....1 format
- 8"×10" Landscape mixed format .....4 formats

5.18 Gradation Conversion

Eight look-up tables (LUTs) are supported for each client (AE Title).

5.19 Interpolation Mode

Three modes (Sharp, Medium and Smooth) are available for selection for each client (AE Title).

5.20 Image Frame

Possible to attach an image frame around each image.

5.21 Background

Black or clear border available for the background.

5.22 DICOM Connection Specifications

(1) Network connection I/F
- 10BASE-T / 100BASE-TX / 1000BASE-T (Auto-Negotiation)
- Half duplex / Full duplex (Auto-Negotiation)

(2) Supported DICOM services
- Verification SOP Class
- Basic Grayscale Print Management Meta SOP Class
- Print Job SOP Class
- Basic Annotation Box SOP Class
- Print Queue Management SOP Class
- User Preference LUT SOP Class

(3) Number of clients that can be connected
A maximum of 64

(4) Simultaneously established associations
A maximum of 10

(5) Number of film boxes allowable in one session
32

(6) Maximum input image size Row : 7000
Column: 7000

(7) Extended annotation character print function
- Annotation characters can be determined from client to client.
- Annotation characters are printed so that they do not overlap with the image.
- Annotation characters can be combined with others.
- Macro support provided.
- Image annotation possible.

6. Operation Overview

(1) Image data sent from an image modality is received by the input interface and then stored on image buffer memory.

(2) Following magnification/reduction processing, image data will be sent to the recording unit.

(3) Films are taken out of the supply magazine one by one, which is then recorded and released to the ejection tray.

7. Power Supply Conditions

(1) Line voltage
AC100-240V±10%
Single phase

(2) Frequency
50-60Hz

(3) Rated current
5-2A

(4) Power consumption
Maximum 500W

(5) Electric energy
Printing: Approx. 270Wh
Ready: Approx. 150Wh
Sleep Mode: Approx. 100Wh

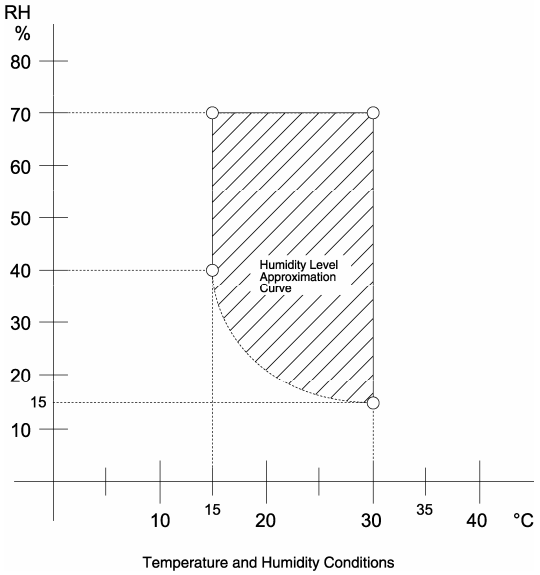
(6) Maximum heat generation
Printing: Approx. 1,000 kJ
Ready: Approx. 550kJ

8. Environmental Conditions

8.1 For Normal Placement

(1) Operating conditions (with the power conducted)

Temperature/Humidity: 15－30°C
Humidity 40－70%RH(at 15°C) to 15－70%RH(at 30°C)
(no dew condensation)
Atmospheric pressure: 700 – 1060hPa



Temperature and Humidity Conditions

(2) Non-operating conditions (with no power conducted)
*Not including film

Temperature: 0 – 45°C (no icing allowed)
Humidity: 10 – 90%RH (no dew condensation)
Atmospheric pressure: 700 – 1060hPa

9. Noise

Printing : Approx. 53dB or less
Ready : Approx. 45dB or less

* Excluding transient noises.

10. Magnetic-Field Resistant Condition

100 Gauss or less at static magnetic field.

11. Floor (Installation Surface) Requirements

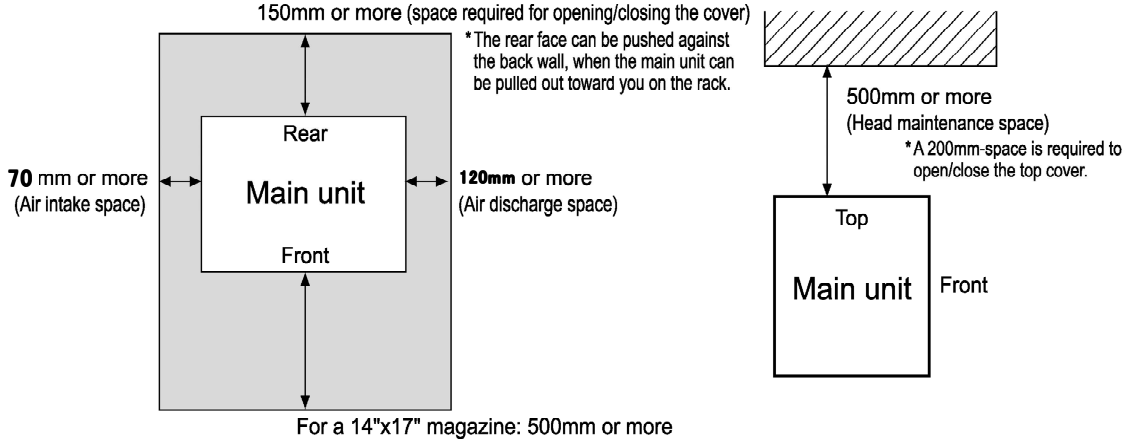
(1) Vibration condition
10 to 55Hz and 0.015mm or less for all of X, Y and Z directions

(2) Levelness
10mm/m (1/100 of inclination) or less all around.

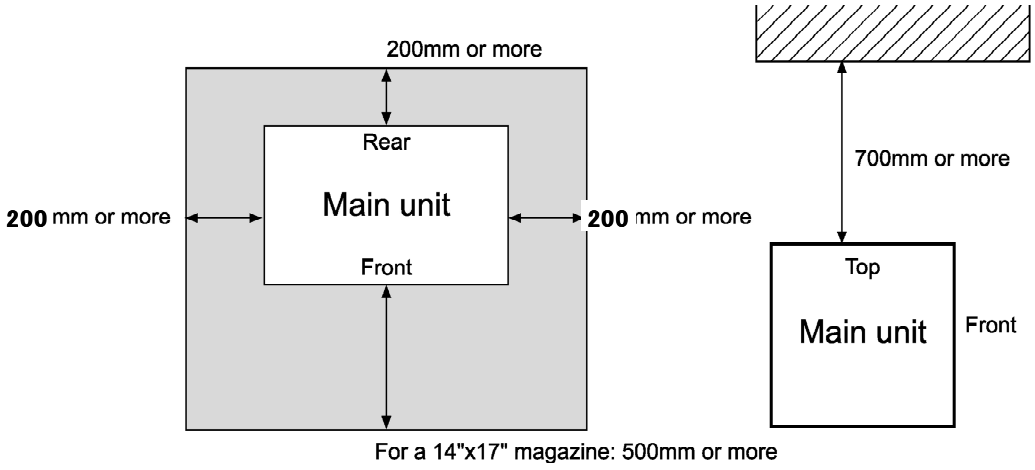
(3) Flatness
10mm or less

12. Equipment Installation Space

(1) Installation space （The space for the personnel is not included.）



(2) Space required for maintenance work
（The space for the personnel is not included）.



13. External Dimensions and Weight

(1) Weight

One magazine Approx. 32 kg (71 lbs)

Two magazines Approx. 43 kg (95 lbs) with optional sheet feeder unit

*Not including magazine and film

(2) External Dimensions (W xD xH)

1magazine

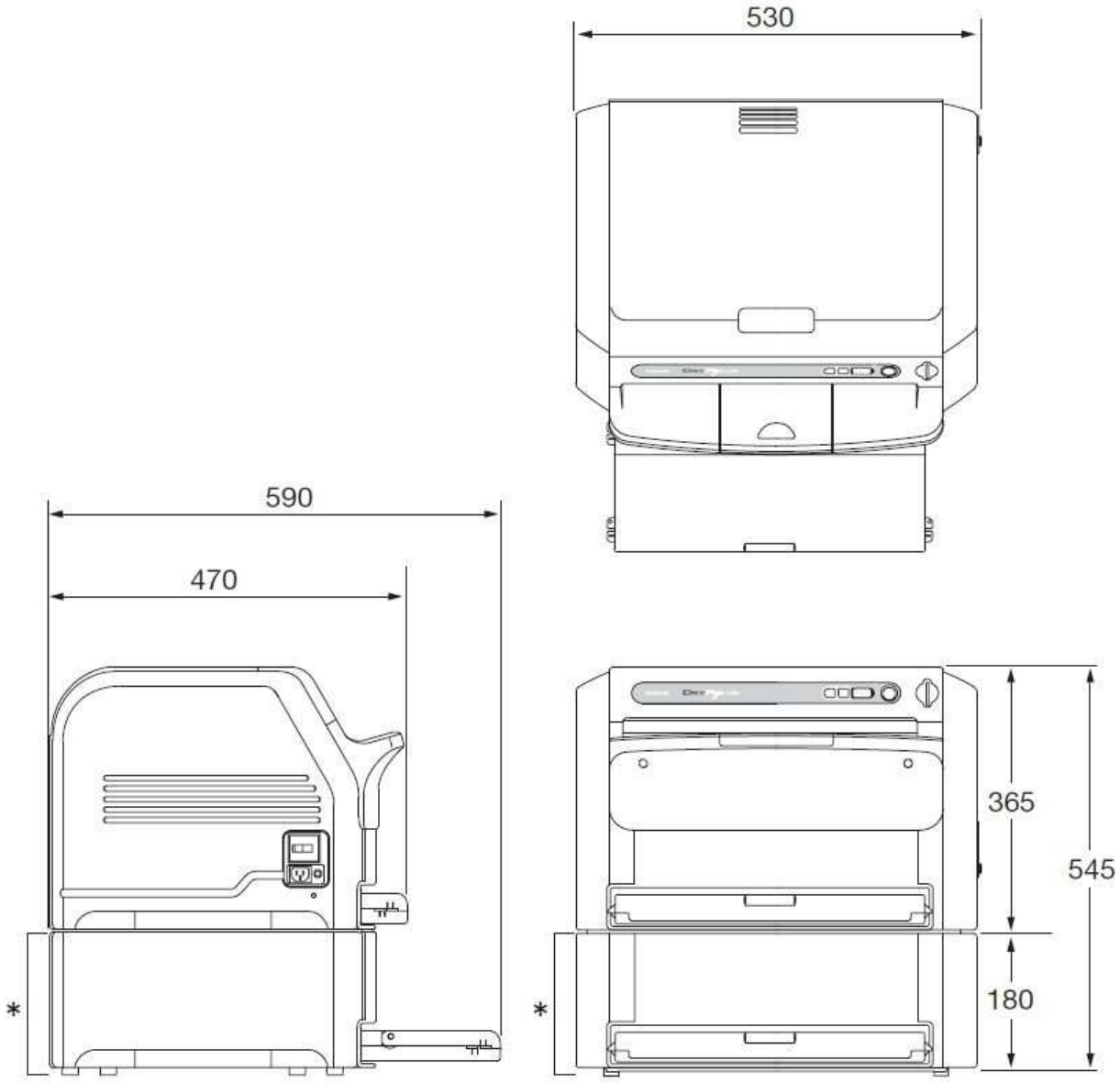
530 x 590 x 365 mm (21 x 23 x 14") with Large magazine

530 x 470 x 365 mm (21 x 19 x 14") with Small magazine

2magazines

530 x 590 x 545 mm (21 x 23 x 21")

with Large magazine and optional sheet feeder unit



* Optional sheet-feeder unit

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26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN