This Reference Guide describes details on how to operate the
DRYPiX PLUS (DRYPiX 4000) and cautions to be observed when
operating it. Please read the Reference Guide thoroughly before
actually operating the DRYPiX PLUS (DRYPiX 4000) system. After
reading this guide, store it nearby the DRYPiX PLUS (DRYPiX 4000)
so that you can see it whenever necessary.
Introduction

This Reference Guide applies to the following software:

- DRYPIX PLUS (DRYPIX 4000) Printer Software V1.0

Fuji Medical Dry Laser Imager DRYPIX PLUS (DRYPIX 4000) is a device that prints digital image data transferred via the DICOM network from the FCR Image Reader or CT, MRI and other imaging modalities onto dedicated film in the selected format. Depending on the intended use, the tray specification can be selected from one-tray, two-tray or three-tray type.

This reference guide for the DRYPIX PLUS (DRYPIX 4000) provides detailed explanations of operation methods and cautions to promote proper understanding of functions and more effective usage.

We ask that first-time users read this guide thoroughly before actually using the DRYPIX PLUS (DRYPIX 4000). After reading this guide, please store it nearby the DRYPIX PLUS (DRYPIX 4000) so that it may be used to ensure that the machine is used under the best conditions.

CAUTIONS

1. No part or all of this guide may be reproduced in any form without prior permission.
2. The information contained in this guide may be subject to change without prior notice.
3. FUJIFILM Corporation shall not be liable for malfunctions and damages resulting from installation, relocation, remodeling, maintenance, and repair performed by other than dealers specified by FUJIFILM Corporation.
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6. FUJIFILM Corporation shall not be liable for malfunctions and damages resulting from negligence of precautions and operating methods contained in this guide.
7. FUJIFILM Corporation shall not be liable for malfunctions and damages resulting from use under environment conditions outside the range of using conditions for this product such as power supply, installation environment, etc. contained in this guide.
8. FUJIFILM Corporation shall not be liable for malfunctions and damages resulting from natural disasters such as fires, earthquakes, floods, lightning, etc.

Process waste correctly, as stipulated by local law or any regulations that apply.
The LCD display lamps in this product contain mercury, which must be recycled or disposed of in accordance with local, state, or federal laws.
Caution: Rx Only in the United States (Federal law restricts this device to sale by or on the order of a physician.)

Trademark
FCR is a trademark or a registered trademark of FUJIFILM Corporation.

Other holder’s trademarks
The DRYPIX PLUS (DRYPIX 4000) uses Vx Works.
Copyright of Vx Works belongs to Wind River Systems, Inc.
The DRYPIX PLUS (DRYPIX 4000) uses Windows® XP.
Windows® XP is the registered trademark of US Microsoft Corporation in the U. S. A. and other countries.
Windows® is the registered trademark of US Microsoft Corporation in the U. S. A. and other countries.
All other company names and product names described in this guide are the trademarks or registered trademarks of their respective holders.

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DRYPIX PLUS (DRYPIX 4000) Reference Guides

DRYPIX PLUS (DRYPIX 4000) Reference Guide

DRYPIX PLUS (DRYPIX 4000) Quality Control Function Reference Guide
Contents at a Glance

Chapter 1 For Safe Operation
This chapter presents Warnings and Cautions we wish you to observe for the safe operation of this equipment.

Chapter 2 Product Overview
This chapter presents overview and major features of this equipment.

Chapter 3 Basic Operation
This chapter describes routine operation procedures, including how to start up/shut down this equipment and also how to replace a film pack.

Chapter 4 Utility
This chapter explains about the calibration of film output density and setup of Economy Mode.

Chapter 5 Troubleshooting
This chapter explains how to troubleshoot an error.

Chapter 6 Care and Maintenance
This chapter describes daily care and maintenance we wish you to perform so that you can use the equipment optimally.

Chapter 7 Specifications
This chapter presents major specifications of this equipment.

Maintenance and Inspection
Software License Agreement
3.1 Starting / Shutting Down the Equipment

Starting the Equipment

The DRYPIX 4000 equipment starts running in about 10 to 15 minutes after the Power ON Switch has been touched on the Operation Panel. See page 5-4 if the equipment does not start running properly.

1. Make sure that the Power Lamp on the Operation Panel lights green, with the Main Power Switch turned ON at the bottom front of the main unit.
   - Turn the Main Power Switch ON if it is not in the ON status.
   - CAUTION
     If the Main Power Switch is set to the "|" side, it is in the ON status.

2. Touch the Power ON Switch on the Operation Panel.

3. When the equipment is up and running, "Ready" appears on the Operation Panel.
   - HINT
     When the "Ready Starting up..." message appears on the Operation Panel, the equipment is ready to receive images from other devices.

3. When the equipment is up and running, "Ready" appears on the Operation Panel.
   - HINT
     When the "Ready Starting up..." message appears on the Operation Panel, the equipment is ready to receive images from other devices.

When the "Ready" appears on the Operation Panel, the equipment is ready to receive images from other devices.
How to Read this Reference Guide

**Marks**

Information items to be observed when you are operating this system and the supplementary remarks are described in this guide with the respective marks.

For the safe system operation, be sure to observe **Warning/Caution**.

- **WARNING**
  Indicates hazardous situations that may lead to serious injury or even death if the precaution is not or could not be followed.

- **CAUTION**
  Indicates hazardous situations that may lead to mild or moderate injury or physical damages if the caution is not or cannot be followed.

- **HINT**
  Shows an item helpful for further effective system operation.

- **SHOW**
  Shows a more detailed operation method or an item that describes additional information.

**Expressions**

Names of keys displayed on the touch panel, windows, and messages are as follows.

- **Touch keys (example)**
  ![Utility](Utility)

- **Windows (example)**
  ![DRYPIX 4000 Initial screen](DRYPIX 4000 Initial screen)

- **Messages (example)**
  ![Processing](Processing)

**Graphics**

How to operate the system is shown with a specific instruction, such as **Touch**. An operation requiring you to touch two or more buttons is displayed with serial numbers, such as (1. Select.), (2. Touch.), ..., to show order of its operation.
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Chapter 1

For Safe Operation

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Precautions Before Operating This Equipment

Before using this equipment, please read “Precautions Before Operating This Equipment” carefully so that you can operate it correctly. Whenever you operate this equipment, be sure to observe those precautions. Failure to do so may cause you to subject to injuries or property damage to occur.

This system is classified as a medical device under EC Directive 93/42/EEC. This equipment has been designed on the assumption that the patient would not come into direct contact with it or for operation by appropriately trained operator.

Process waste correctly, as stipulated by local law or any regulations that apply. When discarding the DRYPIX 4000 that incorporates the lithium battery, be sure to contact service engineer because it cannot be disposed of as a general waste.
Safety

Prior to using this equipment, please carefully read safety precautions presented herein for you to operate it correctly.

Laser handling precautions

This equipment is a Class 1 laser product (IEC60825-1: 2007). This device contains an embedded laser with the following specification:

- Class : 3B
- Medium : Semiconductor laser
- Wavelength : 658nm
- Maximum output : 70mW (CW)
- Beam divergence : 20°

To prevent the user from being exposed to laser beams, always observe the following precautions.

- Never remove any covers other than the Small Upper Cover and Lower Front Cover of the equipment.
- Always contact a qualified service engineer immediately if a malfunction is suspected in the equipment.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Preventing electric shock

The power supply to the DRYPIX 4000 equipment is AC100-120V/200-240V. To avoid possible electric shock, the user is required to observe the following precautions.

- Avoid installing this equipment at sites where water may splash on it.
- Make sure that the equipment is properly grounded to a protective earth lead for indoor wiring.
- Make sure that all cable connections have been properly established.

Inside the equipment are the parts through which a high voltage is conducted, putting the user at risk of electric shock. Never remove any covers other than the Small Upper Cover and Lower Front Cover.

Precaution about high temperature

Be careful with units where High-temperature Caution Labels are affixed as those units may be hot during operation.
1.2 Safety

Ventilation precautions

⚠️ CAUTION

Be sure to install this equipment in a well-ventilated environment. Good ventilation must attend its use (at least 54m³/hour for one unit).

Equipment handling precautions

⚠️ CAUTION

If the room temperature increases abruptly when the equipment is cold, dew condensation may occur. Exercise care so that dew condensation does not occur because it may cause the equipment to be damaged.

Precautions when using this system

Make connections properly in accordance with what is provided by IEC60601-1-1.

Classification

1) According to the type of protection against electrical shock
   CLASS 1 EQUIPMENT
2) According to the degree of protection against electric shock
   NO APPLIED PART
3) Protection against harmful ingress of water
   IPX0
4) According to the degree of safety of application in the presence of a flammable anesthetics mixture with air or with oxygen or nitrous oxide.
   Equipment not suitable for use in the presence of a flammable anesthetics mixture with air or with oxygen or nitrous oxide.
5) According to the mode of operation
   CONTINUOUS OPERATION
Electromagnetic Compatibility (EMC)

This equipment has been tested and found to comply with the limits for medical devices to the IEC 60601-1-2:2001+A1:2004 (EN60601-1-2:2001+A1:2006), Medical Device Directive 93/42/EEC. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.

Consult the manufacturer or field service technician for help.

Further information for IEC 60601-1-2 (EN60601-1-2)

- Medical electrical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the accompanying documents.
- Portable and mobile RF communications equipment can affect medical electrical equipment.
- The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by FUJIFILM Corporation as replacement parts for internal components, may result in increased emissions or decreased immunity of the DRYPIX 4000.

List of Cables

<table>
<thead>
<tr>
<th>Name</th>
<th>FUJIFILM Parts code</th>
<th>General Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/F Cable</td>
<td>–</td>
<td>TIA/EIA-568 Cat5 or more.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight cable of UTP type.</td>
</tr>
</tbody>
</table>

- The DRYPIX 4000 should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the DRYPIX 4000 should be observed to verify normal operation in the configuration in which it will be used.
### Guidance and manufacturer’s declaration - electromagnetic emissions

The DRYPIX 4000 is intended for use in the electromagnetic environment specified below. The customer or the user of the DRYPIX 4000 should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions test</th>
<th>Compliance</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions</td>
<td>Group 1</td>
<td>The DRYPIX 4000 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>CISPR 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF emissions</td>
<td>Class A</td>
<td>The DRYPIX 4000 is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>CISPR 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harmonic emissions</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>IEC61000-3-2</td>
<td>Complies</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>flicker emissions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IEC61000-3-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Guidance and manufacturer’s declaration - electromagnetic immunity

The DRYPIX 4000 is intended for use in the electromagnetic environment specified below. The customer or the user of the DRYPIX 4000 should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD)</td>
<td>±6kV contact</td>
<td>±2kV contact</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>IEC61000-4-2</td>
<td>±8kV air</td>
<td>±4kV contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>±6kV contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>±2kV air</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>±8kV air</td>
<td></td>
</tr>
<tr>
<td>Electrical fast transient/</td>
<td>±2kV for power supply lines</td>
<td>±2kV for power supply lines</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>burst IEC61000-4-4</td>
<td>±1kV for input/output lines</td>
<td>±1kV for input/output lines</td>
<td></td>
</tr>
<tr>
<td>Surge IEC61000-4-5</td>
<td>±1kV differential mode</td>
<td>±1kV differential mode</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td></td>
<td>±2kV common mode</td>
<td>±2kV common mode</td>
<td></td>
</tr>
<tr>
<td>Voltage dips, short interruptions and</td>
<td>&lt;5% (U_f) (&gt;95% dip in (U_f))</td>
<td>&lt;5% (U_f) (&gt;95% dip in (U_f))</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>voltage variations of power supply input lines IEC61000-4-11</td>
<td>for 0.5 cycle</td>
<td>for 0.5 cycle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>40% (U_f) (60% dip in (U_f))</td>
<td>40% (U_f) (60% dip in (U_f))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 5 cycles</td>
<td>for 5 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>70% (U_f) (30% dip in (U_f))</td>
<td>70% (U_f) (30% dip in (U_f))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 25 cycles</td>
<td>for 25 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;5% (U_f) (&gt;95% dip in (U_f))</td>
<td>&lt;5% (U_f) (&gt;95% dip in (U_f))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for 5 s</td>
<td>for 5 s</td>
<td></td>
</tr>
<tr>
<td>Power frequency (50/60Hz) magnetic field</td>
<td>3 A/m</td>
<td>3 A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>IEC61000-4-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** \( U_f \) is the a.c. mains voltage prior to application of the test level.
For Safe Operation

DRYPIX PLUS (DRYPIX 4000) Reference Guide

1-7

Guidance and manufacturer’s declaration - electromagnetic immunity

The DRYPIX 4000 is intended for use in the electromagnetic environment specified below. The customer or the user of the DRYPIX 4000 should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC61000-4-6</td>
<td>3 Vrms</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the DRYPIX 4000, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</td>
</tr>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC61000-4-3</td>
<td>3 V/m</td>
<td>Recommended separation distance</td>
</tr>
<tr>
<td></td>
<td>80 MHz to 2.5 GHz</td>
<td>3 V/m</td>
<td>( d = 1.2 \sqrt{P} ) 80 MHz to 800 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>( d = 2.3 \sqrt{P} ) 800 MHz to 2.5 GHz</td>
</tr>
</tbody>
</table>

where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and \( d \) is the recommended separation distance in metres (m).

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,\(^a\) should be less than the compliance level in each frequency range.\(^b\)

Interference may occur in the vicinity of equipment marked with the following symbol:

![symbol]

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

\( a \) Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the DRYPIX 4000 is used exceeds the applicable RF compliance, the DRYPIX 4000 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the DRYPIX 4000.

\( b \) Over the frequency range 150 kHz to 80 MHz, field strength should be less than 3 V/m.
**Recommended separation distances between Portable and mobile RF communications equipment and the DRYPIX 4000**

The DRYPIX 4000 is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the DRYPIX 4000 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the DRYPIX 4000 as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter W</th>
<th>Separation distance according to frequency of transmitter m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td></td>
<td>( d = 1.2\sqrt{P} )</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \( d \) in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1:** At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**NOTE 2:** These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
1.4 Precautions for Storing or Handling the DI-HL, DI-HLc, and DI-ML Films Used for the Fuji Medical Dry Laser Imager

Precautions for storing or handling unused films

1. Use only the “Fuji Medical Dry Laser Imager Film DI-HL, DI-HLc, or DI-ML” that is compatible with this equipment. If a film other than DI-HL, DI-HLc, or DI-ML is used, a malfunction may be caused to the equipment.

2. Be sure to store unused films contained in the film pack in a cool, dry and dark place of low temperature and low humidity (temperature: 10 to 23°C, relative humidity: 45±15%), avoiding radioactivity and reactive gases, same as for the conventional wet-type film.

3. The DI-HL, DI-HLc, and DI-ML films are light-sensitive. Do not open a film pack before it is loaded properly in the equipment.

4. Do not touch unused films with bare hands, otherwise adverse effects can appear on recorded images.

5. Do not take unused films out of the film pack that has once been loaded into the equipment and opened or add films to the film pack loaded, which will result in misoperation or failure of the equipment.

6. The film pack contains a protective sheet, in addition to the specified number of recording films. This protective sheet will remain in the film pack even after those recording films have been printed and it cannot be used for image recording. Because the protective sheet is a film, discard it appropriately together with other used films.

For how to load the film pack in the machine, see page 3-4 in this guide, or refer to what is displayed on the operation panel.

Precautions for storing or handling recorded films

1. Store recorded films in a cool, dry and dark place of low temperature and low humidity. The higher the temperature and humidity, the more the density of recorded images will change sharply. Long-term storage at high temperature, high humidity and/or daylight conditions, such as in a car or room during summer, may cause discoloration. Using films in the slide projector or overhead projector will also cause discoloration.

2. For the long-term storage performance of recorded films, we assume based on the result of the acceleration test that it will be over 30 years at the storage temperature of 25°C and over 25 years at 30°C, until the portion on an image of density (D) = 1.2 at time of output to change 10% (ΔD=0.12).

3. After an image has been recorded, the film immediately after it was ejected from the machine is still in the process of image development and the room illumination or light emanating from the viewing box will cause slight changes in the optical density. Due to such optical effect, traces of overlapped films or transferred images can be visually recognized temporarily, which will disappear when those films are left under the normal light condition.

4. Note that lucid surfaces of recorded films can be lost or traces of contact with any chemicals that contain water, alcohol, developer, etc., and with other objects that contain a large amount of salt may appear on images, if they are handled under high-humidity environment or due to such undesirable contacts.

5. Do not store films with its image recording faces attached directly for preventing them from sticking to each other.
1.5 Location of Each Label

Location of Each Label

Class 3B Panel Label #2
- Rating Label (#1/#2/#3/#4)
- HHS Certification and Identification Label (#1/#2)
- Caution Label 1 (LAN connector)
- Class 3B Panel Label #1
- Year of Manufacture and EFUP (Environmentally Friendly Use Period) Label
- Mercury-containing Products Label

Caution Label 1

Watch out Hand Caution Label

High-temperature Caution Label

Class 3B Panel Label #2

High-temperature Caution Label

High-temperature Caution Label
### 1.5 Location of Each Label

#### Pattern A

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>FUJIFILM Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>26-30, NISHIZABU 2-Chome, MINATO-KU, TOKYO 105-8420, JAPAN</td>
</tr>
<tr>
<td>Made in</td>
<td>CHINA</td>
</tr>
<tr>
<td>Designed by</td>
<td>FUJIFILM Corporation in JAPAN</td>
</tr>
</tbody>
</table>

**FUJIFILM MEDICAL DRY LASER IMAGER DRYPIX 4000**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50-60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100-120V~</td>
</tr>
<tr>
<td>Current</td>
<td>12A</td>
</tr>
</tbody>
</table>

**SN**

**Rating Label #1**

---

**Pattern B**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>FUJIFILM Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>26-30, NISHIZABU 2-Chome, MINATO-KU, TOKYO 105-8420, JAPAN</td>
</tr>
<tr>
<td>Made in</td>
<td>CHINA</td>
</tr>
<tr>
<td>Designed by</td>
<td>FUJIFILM Corporation in JAPAN</td>
</tr>
</tbody>
</table>

**FUJIMEDICAL DRY LASER IMAGER DRYPIX 4000**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50-60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100-120V~</td>
</tr>
<tr>
<td>Current</td>
<td>12A</td>
</tr>
</tbody>
</table>

**SN**

**Rating Label #3**

---

**FUJIFILM Corporation**

**DRYPIX 4000**

**Model**

**Serial No.**

**Manufactured**

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

**HHS Certification and Identification Label #1**

---

**FUJIFILM Corporation**

**DRYPIX 4000**

**Model**

**Serial No.**

**Manufactured**

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated (July 26, 2001).

**HHS Certification and Identification Label #2**

---
1.5 Location of Each Label

Class 3B Panel Label #1

Be aware that the temperature may be high in the area where the following label is affixed.

High-temperature Caution Label

Be sure to use the power cord our official dealer or local presentative provided.

Caution Label 1

Do not connect a telephone wire to the LAN connector.

Caution Label (LAN connector)

Watch out Hand Caution Label

Be careful not to catch fingers when closing the cover.

LCD display lamps contain mercury. Dispose of properly.

Mercury-containing Products Label

Sample year of manufacture

Class 3B Panel Label #2

Year of Manufacture and EFUP (Environmentally Friendly Use Period) Label
The following symbols are used on this equipment. Their meanings are described below.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="CE symbol" /></td>
<td>This symbol indicates compliance of the equipment with Directive 93/42/EEC.</td>
</tr>
<tr>
<td><img src="image" alt="WEEE symbol" /></td>
<td>This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point. Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about waste, please contact FUJIFILM dealers.</td>
</tr>
</tbody>
</table>
# Safety and Other Signs

The following safety signs are used in the DRYPIX 4000 labels or on its body.

<table>
<thead>
<tr>
<th>Sign</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://via.placeholder.com/15" alt="CE" /></td>
<td>This symbol indicates compliance of the equipment with Directive 93/42/EEC.</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Warning" /></td>
<td>Attention, consult ACCOMPANYING DOCUMENTS.</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Warning" /></td>
<td>High-temperature caution</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Circle" /></td>
<td>Power-OFF</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Circle" /></td>
<td>Power-ON</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Grounding" /></td>
<td>Protective grounding (to the earth)</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Alternating Current" /></td>
<td>Alternating current</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="No Symbol" /></td>
<td>Year of manufacture</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Environmentally Friendly Use Period" /></td>
<td>Environmentally Friendly Use Period (EFUP)</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Stand-by Switch" /></td>
<td>Stand-by switch</td>
</tr>
<tr>
<td><img src="https://via.placeholder.com/15" alt="Utility Button" /></td>
<td>Utility button</td>
</tr>
</tbody>
</table>
Equipment Installation Space

Installation Space

When Not Fixed with Fixtures

- More than 50 mm
- More than 200 mm
- More than 800 mm

When Fixed with Fixtures

- More than 80 mm
- More than 200 mm
- More than 800 mm

Space Required for Maintenance Work

When Not Fixed with Fixtures

- More than 600 mm
- More than 800 mm
- More than 1000 mm

When Fixed with Fixtures

- More than 80 mm
- More than 250 mm
- More than 1000 mm
1.8 Precautions on DRYPIX 4000 Operations

Precautions on DRYPIX 4000 Operations

Printout on film is enabled from DICOM-networked modalities. Therefore, no specific operation is required for printout on film for the DRYPIX 4000 system.

Precautions for Use

**CAUTION**
If you press and hold the Power ON Switch (for 4 seconds or longer) when the equipment is up and running, it will be shut down forcibly. This also occurs even when the equipment is in process of image printout or in Utility mode.

**CAUTION**
Do not get on the equipment or place any object on it. Otherwise, equipment breakage or human injury may result.

**CAUTION**
Do not put weight on the film tray pulled out.

**CAUTION**
When using the shutter, be careful and hold it firmly with both hands to prevent it from dropping.

**CAUTION**
Be sure to turn the power OFF first and then insert the shutter, because a system error may result. Note, however, that you do not have to turn the power OFF if an instruction is indicated on the operation panel to insert the shutter.

Precautions When Outputting Film Prints

**WARNING**
If the power to the DRYPIX 4000 is shut down unintentionally, image printouts may not be generated.
We, therefore, recommend that you do not erase images stored on the FCR Image Reader and other modalities, such as CT, MRI, and the like, before you make sure that images have been printed properly.
FUJIFILM Corporation and authorized dealers will not assume any responsibility for loss of images and others.

**CAUTION**
Do not forcibly remove a film in process of ejection. Removing a film in process of ejection forcibly may damage it.
CAUTION

Do not open while in processing any of the Upper Front Cover, Upper Right-side Cover, Lower Right-side Cover and Small Upper Cover.
If a cover is opened while in processing, any image being processed at the moment will be disabled because correct print density cannot be obtained.
If a cover is opened while in processing, the equipment will stop operating for the safety reason.
A message also appears on the Operation Panel at this time, indicating that a cover is open.

HINT

A maximum of 150 films can be stacked in the output film tray.
Remove the output films before the film tray becomes full.

HINT

Install this equipment in a well-ventilated place.

HINT

If there still remain unprocessed films in the equipment, a confirmation window like that shown on the right will open. Touch [AFTER PRINT] or [IMMEDIATELY]. If you touch [IMMEDIATELY], unprocessed image data will remain inside the equipment and will be output after it is rebooted the next time.
Chapter 2
Product Overview

2.1 Overview .................................................. 2-2
2.2 System Features ........................................... 2-3
2.3 Units Names and the Functions ......................... 2-4
   DRYPIX 4000 Main Unit .................................. 2-4
   Operation Panel .......................................... 2-6
   Display ................................................... 2-7
Overview

The Fuji Medical Dry Laser Imager DRYPIX 4000 is a device that prints digital image data, transferred via the DICOM network from the FCR Image Reader or CT, MRI and other imaging modalities, onto dedicated film in the selected format.

It is also possible to print, via the DRYPIX Link, image information derived from imaging modalities or image processors not connected to the DICOM network.
System Features

Presented below are the main system features of the Fuji Medical Dry Laser Imager DRYPIX 4000.

1. This equipment adopts a system that records images with the laser and develops them by means of thermal processing, doing away with the need for management or replenishment of processing chemicals and disposal of waste solutions. This equipment thus uses an environment-friendly system.

2. Film can be handled under daylight room conditions, doing away with the need for darkrooms.

3. A color LCD touch panel used in the Operation Panel enables simplified easy-to-view operations. Moreover, you can check the equipment status by means of Status Lamp even if you are away from the equipment.

4. You can set up power saving mode to save power consumption of the equipment.

5. When a film jams, you can correct it by opening covers as necessary.
## Units Names and the Functions

### DRYPIX 4000 Main Unit

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Operation Panel</td>
<td>Shows power supply or equipment status by means of various lamps. This panel can be operated also by touching the on-screen buttons and icons.</td>
</tr>
<tr>
<td>② Upper Front Cover</td>
<td>Open this cover when a film jam occurs inside the equipment, and take appropriate actions to correct film jamming.</td>
</tr>
<tr>
<td>③ Tray 1</td>
<td>A film pack containing new films is loaded here. Note that basically this tray is locked. To open this tray, press [UNLOCK TRAY] on the Operation Panel to unlock it.</td>
</tr>
<tr>
<td>④ Tray 2 (option)</td>
<td>A film pack containing new films is loaded here. Note that basically this tray is locked.</td>
</tr>
<tr>
<td>⑤ Tray 3 (option)</td>
<td>A film pack containing new films is loaded here. Note that basically this tray is locked.</td>
</tr>
<tr>
<td>⑥ Lower Front Cover</td>
<td>Open this cover when cleaning the air filter.</td>
</tr>
</tbody>
</table>
## 2.3 Units Names and the Functions

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Power Switch</td>
<td>Basically leave this switch turned ON (I).</td>
</tr>
<tr>
<td></td>
<td>ON (I) : Main Power ON</td>
</tr>
<tr>
<td></td>
<td>OFF (O) : Main Power OFF</td>
</tr>
<tr>
<td>Small Upper Cover</td>
<td>Open this cover when a film jam occurs inside the equipment, and take</td>
</tr>
<tr>
<td></td>
<td>appropriate actions to correct film jamming.</td>
</tr>
<tr>
<td>Upper Right-side Cover</td>
<td>Open this cover when a film jam occurs inside the equipment, and take</td>
</tr>
<tr>
<td></td>
<td>appropriate actions to correct film jamming.</td>
</tr>
<tr>
<td></td>
<td>Open this cover also when cleaning the cleaning roller.</td>
</tr>
<tr>
<td>Lower Right-side Cover</td>
<td>Open this cover when a film jam occurs inside the equipment, and take</td>
</tr>
<tr>
<td></td>
<td>appropriate actions to correct film jamming.</td>
</tr>
<tr>
<td>Film Sorter (3 bins)</td>
<td>The optionally provided Film Sorter that sorts films by each film size</td>
</tr>
<tr>
<td></td>
<td>and then ejects them appropriately.</td>
</tr>
<tr>
<td>LAN Connector</td>
<td>Connected to the image network devices. 10base-T/100base-TX Interface</td>
</tr>
</tbody>
</table>

**CAUTION**

Never open trays or covers during processing.

**CAUTION**

When closing covers, be careful not to pinch your finger in the aperture.

**CAUTION**

Do not connect telephone lines to LAN connector. Only the IEC950/UL1950 standard cables are appropriate for connecting to this connector.
### Operation Panel

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Power ON Switch</td>
<td>Turns ON the power to the main unit.</td>
</tr>
<tr>
<td>2 Power Lamp</td>
<td>Lights green when the Main Power Switch turns ON.</td>
</tr>
<tr>
<td></td>
<td>As the Main Power Switch is basically left turned ON, the Power Lamp</td>
</tr>
<tr>
<td></td>
<td>will also remain lit constantly.</td>
</tr>
<tr>
<td>3 Status Lamp</td>
<td>Indicates the equipment status.</td>
</tr>
<tr>
<td></td>
<td>When lighting green : Film printout is enabled.</td>
</tr>
<tr>
<td></td>
<td>When blinking green : In process of system startup or recovery from an</td>
</tr>
<tr>
<td></td>
<td>error condition.</td>
</tr>
<tr>
<td></td>
<td>When blinking orange : No films remaining in the tray, a film jam or any</td>
</tr>
<tr>
<td></td>
<td>other errors.</td>
</tr>
<tr>
<td>4 Power Save Lamp</td>
<td>Indicates that the equipment is in Sleep Mode.</td>
</tr>
<tr>
<td></td>
<td>Blinking (Screen erasure) : A window closes.</td>
</tr>
<tr>
<td></td>
<td>Blinking (Power saving) : Closes a window, have the heater go into</td>
</tr>
<tr>
<td></td>
<td>power save mode, or turns the motor power OFF.</td>
</tr>
<tr>
<td></td>
<td>Lighting (Sleep mode) : Closes a window, stops working the heater,</td>
</tr>
<tr>
<td></td>
<td>or turns the motor power OFF.</td>
</tr>
<tr>
<td></td>
<td>Unlit (In routine operation) : At the press of an icon or a button, the</td>
</tr>
<tr>
<td></td>
<td>equipment can be operated.</td>
</tr>
<tr>
<td>5 Display</td>
<td>Equipment status and the number of films remaining in each tray are</td>
</tr>
<tr>
<td></td>
<td>displayed here.</td>
</tr>
</tbody>
</table>

For details, see page 2-7.
## Display

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Title/Message display field</td>
<td>Displays operation messages and equipment statuses. Entering the Utility mode will display “UTILITY” in this field. For details, see Chapter 3 Basic Operation and Chapter 4 Utility Operation.</td>
</tr>
<tr>
<td>② Film Count Queuing for Printout display field (Hard disk icon)</td>
<td>Displays film count queuing for output. When this icon is touched, also displays already-registered print jobs, serving at the same time as an icon that implements deletion, urgent printout or detailed display of such already-registered print jobs. For details, see Chapter 3 Basic Operation.</td>
</tr>
<tr>
<td>③ Film Size Icon</td>
<td>Displays a film size determined for each tray. Also displays “4.0” when DI-ML is set up at 4.0 of maximum density. (Maximum density output may differ depending on the setting performed on the connected modality.) The following film sizes are enabled by service settings. Inch system : 14”×17” or 10”×14” Metric system : 35×43cm or 26×36cm</td>
</tr>
<tr>
<td>④ Remaining Film Count display field</td>
<td>Displays the number of films remaining in each tray and the film base color.</td>
</tr>
<tr>
<td>⑤ Base color display frame (outer frame)</td>
<td>Blue : Blue base (DI-HL) Gray : Clear base (DI-HLC) Pink : Blue base (DI-ML)</td>
</tr>
<tr>
<td>⑥ Utility Button</td>
<td>At the press of this button, the system enters Utility mode. For details of Utility mode functions, see Chapter 4 Utility Operation.</td>
</tr>
<tr>
<td>⑦ Operation Button display field</td>
<td>When the system requires any user operation for troubleshooting purposes, buttons available for such purposes will be displayed in this field.</td>
</tr>
<tr>
<td>⑧ Shutdown button</td>
<td>Pressing this button will start the system shutdown process.</td>
</tr>
</tbody>
</table>
2
Product Overview
# Chapter 3

## Basic Operation

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 Starting / Shutting Down the Equipment</td>
<td>3-2</td>
</tr>
<tr>
<td>Starting the Equipment</td>
<td>3-2</td>
</tr>
<tr>
<td>Shutting Down the Equipment</td>
<td>3-3</td>
</tr>
<tr>
<td>3.2 Replacing the Film Pack</td>
<td>3-4</td>
</tr>
<tr>
<td>3.3 Checking / Changing Order of Film Prints</td>
<td>3-7</td>
</tr>
<tr>
<td>Checking Order of Film Prints</td>
<td>3-7</td>
</tr>
<tr>
<td>Changing Order of Film Prints</td>
<td>3-8</td>
</tr>
<tr>
<td>Viewing Details of Print Jobs</td>
<td>3-9</td>
</tr>
<tr>
<td>Deleting Print Jobs</td>
<td>3-11</td>
</tr>
</tbody>
</table>
Starting the Equipment

The DRYPIX 4000 equipment starts running in about 10 to 15 minutes after the Power ON Switch has been touched on the Operation Panel. See page 5-4 if the equipment does not start running properly.

1. Make sure that the Power Lamp on the Operation Panel lights green, with the Main Power Switch turned ON at the bottom front of the main unit. Turn the Main Power Switch ON if it is not in the ON status.

   \[\text{CAUTION}\]
   If the Main Power Switch is set to the “|” side, it is in the ON status.

2. Touch the Power ON Switch on the Operation Panel.

   \[\text{HINT}\]
   When the “Ready Starting up…” message appears on the Operation Panel, this equipment is ready to receive images from other devices.

3. When the equipment is up and running, “Ready” appears on the Operation Panel.

   \[\text{CAUTION}\]
   If you press and hold the Power ON Switch (for 4 seconds or longer) when the equipment is up and running, it will be shut down forcibly.
Shutting Down the Equipment

See page 5-5 if the equipment does not shut down properly.

1 Touch [SHUTDOWN] on the Operation Panel.

2 Touch [YES] on the window asking if you wish to shut down the system.

The equipment shuts down when the screen display goes off after the “System terminating...” message appears.

CAUTION

If you want to reboot the equipment, wait for about 10 seconds or longer after the equipment has been shut down, and then touch the Power ON Switch. This is to fully reset the system status inside the equipment.
3.2 Replacing the Film Pack

When the film in the supply tray runs out, the Status Lamp goes blinking orange. Have the Fuji Medical Dry Laser Imager DI-HL, DI-HLc, or DI-ML film ready for use. A tutorial animation appears in the display to guide you to replace the film pack.

1 Touch [STOP ALARM] on the Operation Panel.

HINT

In the following cases, start operating from step 2 below.
• For an equipment unit where the alarm has been set to be silent.
• For an equipment unit where films of the same size are supplied automatically from the other tray, when the film runs out.

2 Touch [UNLOCK TRAY] on the Operation Panel.

The tray will be unlocked.

CAUTION

Be sure to pull the tray out only after it has been unlocked. Otherwise, a system malfunction will result.

3 Pull the tray out carefully (1.), and remove the protective material together with the film cushioning cardboard (2.).

Discard the removed protective material and film cushioning cardboard.

4 Load a new film pack so that its red label or green label (marked with an arrow) and the arrow mark on the tray match with each other.

Film cushioning cardboard
Protective material

1. Pull out.

2. Remove.

The arrow marks must be aligned neatly with each other.
3.2 Replacing the Film Pack

5 Raise one end of the film pack to tear off the label (1.), and open both ends of the film pack (2.), as illustrated.

6 Use the cutter stored on the right-hand side of the Operation Panel (1.) to cut the film pack along the tray edge (2.). Replace then the cutter in the position where it has been stored (3.).

**CAUTION**

If the cutter's blade protection is broken, the blade will be exposed posing danger to the user. Do not touch the unprotected blade. Replace a dull cutter hard to cut the film pack, as necessary.
3.2 Replacing the Film Pack

7 Slowly push the film tray in until it locks firmly.

When the tray locks firmly, a beep will sound.

![Push in slowly.]

**CAUTION**
When closing the tray, be careful not to pinch your fingers.

8 Gently and slowly pull out straight toward you one film pack end that is outside the film tray.

The display returns to the DRYPIX 4000 initial screen.

This completes the film supply procedure.

![Pull out.]

**CAUTION**
An attempt to pull the film pack out at a slant or roughly will cause it to break.

**HINT**
When you have selected “By each film pack” for “AUTOMATED F.D.C.” in the Utility mode, the Auto F.D.C. (automatic film density calibration) would be performed. After completion of the density calibration procedure, the display returns to the DRYPIX 4000 initial screen. Note that the number of films contained in the tray where a new film pack was loaded has changed.
3.3 Checking / Changing Order of Film Prints

Checking Order of Film Prints

You can display already-registered print jobs as follows to check order of film prints.

1 Touch the [Hard Disk] icon on the Operation Panel.

   The display changes to the “Job List” screen.

   Films are printed successively starting from the job that is on the top of the “Job List”.
   To display the updated print job information, touch [REFRESH].

   AE Title | Shows the name of a connected device.
   Entry | Shows the date and time when an image was received from the connected device.
   Status |• Printing : Shows a job being in process of printout.
          • Processing : Shows a job being in process of image processing or awaiting printout.
          • Blank : Shows an unprocessed job.
          • Error : Shows a job with which an error occurred.

2 After checking order of film prints, touch [QUIT].

   The display returns to the DRYPIX 4000 initial screen.
3.3 Checking / Changing Order of Film Prints

Changing Order of Film Prints

You can output specific already-registered print jobs on film urgently, as follows.

1 Touch the [Hard Disk] icon on the Operation Panel.

The display changes to the “Job List” screen.

Films are printed successively starting from the job that is on the top of the “Job List”.

To display the updated print job information, touch [REFRESH].

AE Title Shows the name of a connected device.
Entry Shows the date and time when an image was received from the connected device.
Status
• Printing : Shows a job being in process of printout.
• Processing : Shows a job being in process of image processing or awaiting printout.
• Blank : Shows an unprocessed job.
• Error : Shows a job with which an error occurred.

2 Use [▼] and [▲] to select a specific job (1.), and touch [URGENT PRINT] (2.).

Touching [URGENT PRINT] will move the selected job to the top of unprocessed jobs, which will then be printed urgently.

CAUTION

This operation is possible only when the relevant Status item is blank.
(Order of image data printout jobs in the “Printing” or “Processing” status cannot be changed.)

3 Touch [QUIT].

The display returns to the DRYPIX 4000 initial screen.
3.3 Checking / Changing Order of Film Prints

Viewing Details of Print Jobs

You can view details of already-registered print jobs, as follows.

1. Touch the [Hard Disk] icon on the Operation Panel.

The display changes to the “Job List” screen.

HINT

Films are printed successively starting from the job that is on the top of the “Job List”.
To display the updated print job information, touch [REFRESH].

| AE Title | Shows the name of a connected device. |
| Entry | Shows the date and time when an image was received from the connected device. |
| Status | • Printing : Shows a job being in process of printout. 
        • Processing : Shows a job being in process of image processing or awaiting printout. 
        • Blank : Shows an unprocessed job. 
        • Error : Shows a job with which an error occurred. |

2. Use [>] and [<] to select a job (1.), and touch [DETAIL] (2.).

The “DETAIL” screen then opens.

3. Touch [>] and [<] to view other jobs, as necessary.
3.3 Checking / Changing Order of Film Prints

4  After viewing print job details, touch [QUIT].
   The display returns to the “Job List” screen.

5  Touch [QUIT] on the “Job List” screen.
   The display then returns to the DRYPIX 4000 initial screen.
Deleting Print Jobs

You can delete already-registered print jobs as follows.

1 Touch the [Hard Disk] icon on the Operation Panel.

The display changes to the “Job List” screen.

Films are printed successively starting from the job that is on the top of the “Job List”.
To display the updated print job information, touch [REFRESH].

<table>
<thead>
<tr>
<th>AE Title</th>
<th>Shows the name of a connected device.</th>
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</thead>
<tbody>
<tr>
<td>Entry</td>
<td>Shows the date and time when an image was received from the connected device.</td>
</tr>
</tbody>
</table>
| Status   | • Printing : Shows a job being in process of printout.  
          | • Processing : Shows a job being in process of image processing or awaiting printout.  
          | • Blank : Shows an unprocessed job.  
          | • Error : Shows a job with which an error occurred. |

2 Use [▼] and [▲] to select a job (1.), and touch [DELETE] (2.).

A confirmation window opens.
If [YES] is touched on the confirmation screen that opens, a job selected as above will be deleted.
If [NO] is touched, the display returns to the “Job List” screen.

**CAUTION**
If a print job is deleted, the relevant images will also be deleted.

This operation is possible only when the relevant Status column is blank.
(Order of image data printout jobs in the “Printing” or “Processing” status cannot be changed.)
3 Touch [QUIT] on the “Job List” screen.

The display returns to the DRYPIX 4000 initial screen.
# Chapter 4

## Utility

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Utility List

Following are the functions available in the Utility mode. For details of the function operation procedures, see the respective pages for referencing shown in the flowchart below.

### Utility

**Startup**
- Page 4-4

**Quitting**
- Page 4-6

#### AUTO F.D.C.
- Page 4-7
- Density of print films can be calibrated automatically.

#### Test Pattern
- Page 4-13
- Test pattern films are printed.

#### Unlocking Tray
- Page 4-16
- The trays are unlocked.

#### Print Queue
- Page 4-19
- A specific film print job can be printed urgently. Also, already-registered film print jobs can be deleted if necessary.

#### Film Counters
- Page 4-21
- It is possible to check the used film count on a list calculated on a per-day, per-week or per-month basis, for each tray, IP address or AE title.

#### Listing Used Film Count
- Page 4-26
- The used film count can be confirmed individually for each tray and also the count can be reset as necessary.

#### Save Power
- Page 4-41
- The Stand-By mode pattern is enabled. The screen display goes off and the Power Save Lamp goes blinking.

#### Stand-By
- Page 4-41
- The Sleep mode pattern is enabled. The screen display goes off and the Power Save Lamp goes on.

#### Sleep
- Page 4-41
- It is possible to enable the power saving function on a daily basis.

#### Calendar
- Page 4-33
- Time of Office Closed can be determined individually for each of "Closing all day", "Closing afternoon" and "Closing morning".

#### Transition Time
- Page 4-38
- The Transition Time to automatically enter Economy Mode can be set accordingly, if no data come from the outside.

#### Scheduler
- Page 4-30
- Time periods where Economy Mode becomes activated can be set for each day of the week.
4.1 Utility List

- **Setting the Alarm**
  - Whether to specify the alarm sound to ON or OFF status and the volume can be determined accordingly.

- **Setting the Key Touch Tone**
  - Whether to specify the key touch tone to ON or OFF status and the volume can be determined accordingly.

- **Automated F.D.C.**
  - Timing for achieving automatic film density calibration can be set up as necessary.

- **Setting Date/Time**
  - Date of the clock incorporated in the equipment can be set.
  - Time of the clock incorporated in the equipment can be set.

- **Software Version**
  - Software version can be checked as necessary.

- **Reprint**
  - Images stored in the equipment can be reprinted.
  - *This button appears only when a device where images are to be stored has been determined ahead of time by service settings.*

- **Animation Display**
  - It is possible to determine the speed for display of an animation appearing on the Operation Panel.

- **Remaining Film Count**
  - The remaining film count can be set accordingly.

- **QC**
  - It is possible to print test pattern films that are required for achieving image Quality Control.
  - History of measured external densities, formats, and artifacts can be displayed/corrected accordingly.
  - It is possible to set up densitometers incorporated in each tray, external densities, and baseline value and established criteria for formatting.
  - LUT nos. to be used for printout of QC test pattern films can be determined appropriately.

- **See the “DRYPIX 4000 Quality Control Function Reference Guide”.*
Starting Up the Utility

Utility functions that the DRYPIX 4000 system offers allow you to operate detailed processing or perform various settings. Note that the Utility functions cannot be used while the equipment is in process of image printout.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.
   The Utility mode starts up, displaying then the “Utility (1/3)” window.

2. Touch the button for an item you wish to set up.
   Select [AUTO F.D.C.] taking it as an example here.
   The display changes to the “AUTO F.D.C.” window.
   The “Utility” window consists of the three sheets. At the touch of a sheet number, the page thus specified will open.

3. The window for a utility function thus specified will open.
   Perform necessary settings.

4. After performing necessary settings, touch [QUIT].
   The display returns to the “Utility (1/3)” window.
Implementing Utility Functions While the Equipment is in Process of Startup

Utility functions can be implemented while the equipment is being started up.

1. Touch [UTILITY] appearing at the upper right corner of the window.

   The Utility mode will start up, displaying then the “Utility (1/3)” window.

2. Touch the button for an item you wish to set up.

   Note that the following functions cannot be used while the equipment is being started up.

   Sheet 1/3: AUTO F.D.C. and TEST PATTERN
   Sheet 2/3: REPRINT
   Sheet 3/3: QC

   For details, see the respective item.
   The “Utility” window consists of the three sheets.
   At the touch of a sheet number, the page thus specified will open.
4.3 Quitting the Utility

Shown below is the procedure to quit the Utility mode.

1 Touch [QUIT] when necessary settings have been completed accordingly on a Utility setup window.

The display returns to the “Utility (1/3)” window.

HINT
Depending on the Utility setup window, [TOP] or [QUIT] is displayed. To return to the previous window, touch [QUIT]. Touch [TOP] when returning to the “Utility” window.

2 Touch [EXIT].

The Utility mode then quits.
The display returns to the DRYPIX 4000 initial screen.
4.4 Automatically Calibrating the Film Density (Using the AUTO F.D.C. Function)

Automatically Calibrating the Film Density

This function is used to calibrate the film density so that films are printed according to the density gradation curve value determined in the equipment. Use this function when the film manufacturing number has been changed or the output density has changed.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display then changes to the “AUTO F.D.C.” window.

3. On the “AUTO F.D.C.” window that opens, select an output tray targeted for calibration (1.), and touch [EXECUTE] (2.).
   The automatic film density calibration will then be performed.

   HINT
   When an additional output tray is available, multiple trays can be selected at the same time.
   * Tray 2 is available optionally.
4.4 Automatically Calibrating the Film Density (Using the AUTO F.D.C. Function)

In about two minutes, a test pattern film will be printed. The automatic film density calibration processing finishes when a 24-step density test pattern film like that shown below is printed.
4. Touch [TOP].

The display returns to the “Utility (1/3)” window.
To return to the window where a desired output tray is to be selected, touch [QUIT].
### Changing the Maximum Density (Dmax) Value

According to view box luminance or how the room is bright, or depending on the user’s taste, the maximum density can be changed as desired so that AUTO F.D.C. processing is performed appropriately.

1. Select a desired print tray on the “AUTO F.D.C.” window (1.), and touch [ADJUST DMAX] (2.).

2. Select a shift value (Increase/decrease Dmax value) for calibration of the maximum density (1.), and then touch [ENTER] (2.).

   A shift value thus changed will be determined for automatic density calibration processing.

   **CAUTION**

   The shift value (Increase/decrease Dmax value) thus changed will be saved until it is changed the next time.

   **HINT**

   The initially determined shift value (Increase/decrease Dmax value) for calibration of the maximum density is “0”.

3. Check the changed value and touch [QUIT].

   The display returns to the window where a desired tray is to be selected.
4 Touch [EXECUTE].

The maximum density (Dmax) thus changed will be reflected, and AUTO F.D.C. processing performed accordingly.

In about two minutes, a test pattern film will be printed.

5 Touch [TOP].

The display returns to the “Utility (1/3)” window.

To return to the window where a desired output tray is to be selected, touch [QUIT].
For your reference

If the shift value (Increase/Decrease Dmax value) is changed, densities over OD=2.5 will change. Changing the shift value by 1 step will consequently change the density by about 0.1 at OD=3.6.
Printing a Test Pattern

You can print a test pattern film based on the imaging conditions specific to a device selected from among devices registered to the DRYPIX 4000.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [TEST PATTERN] on the “Utility (1/3)” window.

The display then changes to the “Test Pattern” window.

3 Select a desired test pattern and an output tray (1.), and touch [ENTER] (2.).

The display changes to the window where an AE title is to be set up.

- **SMPTE**: A test pattern where the recorded density and vertical and horizontal lines can be confirmed.
- **17-Steps**: A test pattern where the density can be confirmed at the 17-step process.
- **Spatial Resolution**: A test pattern to be used for determination of the resolution.
- **User Settable**: A user-defined image that can be registered separately by service settings.

• 17-Steps, Spatial Resolution, and User Settable test patterns are enabled by service settings.
• When the 17-step and Spatial Resolution test patterns are selected to be activated, printout will start after [Dmax] is selected.

**HINT**
Use [] and [] to select an input device (1.), and touch [ENTER] (2.).

The display changes to a window where print parameters are to be selected.

**CAUTION**

Each of the DICOM-networked devices is given an AE title, a specific name that identifies the device. For the AE Title on the Test Pattern window, “default” is registered when equipment is shipped from factory. Select, therefore, an AE title other than “default”.

Use [] and [] to select a desired image matrix and LUT number (1.), and touch [ENTER] (2.).

A window opens, where an image matrix and LUT number are to be specified.

**HINT**

Image matrix : 1, 2, 4, 6, 8 or 12
LUT number : LUT1 to LUT8

Select a desired interpolation type and interpolation algorithm/method (1.), and then touch [EXECUTE] (2.).

Interpolation type

- **SHARP** : Decreases the degree of smoothing to generate a rough tone, when an image is subjected to magnification or reduction processing.
- **SMOOTH** : Increases the degree of smoothing to generate a soft one, when an image is subjected to magnification or reduction processing.
- **MEDIUM** : Determines the degree of smoothing to be a level between “SHARP” and “SMOOTH”, when an image is subjected to magnification or reduction processing.
4.5 Printing a Test Pattern (TEST PATTERN)

Interpolation algorithm/method
CUBIC: Subjects an image to magnification or reduction processing based on the CUBIC interpolation method.
NONE: Does not subject an image to magnification or reduction processing.

**CAUTION**

When “NONE” is selected, no interpolation processing will be performed, causing then an image printout to be generated smaller in relation to the used film size.

In about three minutes, a test pattern film will be printed. Make sure that the image is printed correctly on the printed test pattern film.

Touch [TOP] on the Test Pattern window.
The display returns to the “Utility (1/3)” window.
To return to the window where test pattern items are to be set up, touch [QUIT].
Unlocking Tray

When opening a tray other than for correcting a film jam or replacing a film pack, perform necessary procedure on the Utility window to unlock the tray and pull it out. When you are pulling out a film-loaded tray, insert the shutter to avoid exposure to film.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [UNLOCK TRAY] on the “Utility (1/3)” window.
   The display changes to the “Unlock Tray” window.
   The “Insert shutter and select tray.” message appears.

3 Carefully place the shutter in the groove on top of the target tray and fully push it in straight as far as it will go.

   **HINT**
   The shutter is hooked on the left side or back of the equipment.
4 On the “Unlock Tray” window, select a tray you wish to unlock (1.), and touch [EXECUTE] (2.).

When the target tray is unlocked, the “After locking tray, remove shutter.” message appears.

5 Pull the tray out toward you.

**CAUTION**
Do not remove the shutter while in necessary operation.

**CAUTION**
Although the lock pins provided between the rails disable the tray to be pulled out completely, you can remove the tray if it is pulled out while pushing it inside slightly.

**CAUTION**
When you remove the tray, hold it firmly with your hands, and exercise care not to drop it on the floor. The maximum weight of the tray, including films, is approx. 8 kg.
6 After completing the necessary work, reinsert the tray carefully.

7 Push the tray in firmly and make sure that the tray has been locked correctly. Remove then the shutter.

   HINT

Hook the removed shutter on the left side or back of the equipment.

The “Do you want to clear film counter?” message appears.

To clear the film counter, touch [YES] and [NO] if you do not wish to clear it.

The display returns to the “Unlock Tray” window.

8 Touch [QUIT].

The display then returns to the “Utility (1/3)” window.
Urgently Printing a Specific Film

It is possible to print an already-registered print job urgently, as follows.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display changes to the “Print Queue” window.

3. Use [◀] and [▶] to select a job you wish to print urgently (1.), and touch [URGENT PRINT] (2.).
   A print job thus selected moves to the top of the Job List and then printed urgently.

4. Touch [QUIT].
   The display returns to the “Utility (1/3)” window.
Deleting a Film Print Job

To delete an already-registered film print job, perform the procedure below.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display changes to the “Print Queue” window.

3. Use [] and [] to select a film print job you wish to delete (1.), and touch [DELETE] (2.).
   A confirmation window opens.
   
   [HINT]
   To delete all the jobs appearing on the Job List, touch [DELETE ALL].

4. Touch [YES].
   A film print job selected above will then be deleted.
   Touch [NO] if you do not wish to delete the selected job.
   The display returns to the “Job List” screen. To return to the “Utility (1/3)” window touch then [QUIT].

[CAUTION]
If you implement print job deletion processing, the relevant image data will also be erased.
4.8 Checking Film Counters (SET COUNTERS)

Checking Film Counters

You can display the number of used films for each tray.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [SET COUNTERS] on the “Utility (1/3)” window.
   The display changes to the “Set Counters” window.

3 Touch [SET COUNTERS].
   The number of films used in the individual trays will be displayed.

4 Check the number of used films for each tray and touch [QUIT].
   The display then returns to the “Set Counters” window.

   Top : The number of films used after the counter was reset.
   Bottom : The cumulative number of used films.
5 Touch [QUIT].

The display then returns to the “Utility (1/3)” window.
Reset Film Counters

You can reset the number of used films for each tray.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [SET COUNTERS] on the “Utility (1/3)” window.
   The display changes to the “Set Counters” window.

3 Touch [SET COUNTERS].
   The number of films used in the individual trays will be displayed.

4 Touch [CLEAR TRAY1] or [CLEAR TRAY2].
   The display changes to a confirmation window.
   Top: The number of films used after the counter was reset.
   Bottom: The cumulative number of used films.
5 Touch [YES] on a confirmation window that opens.

The number of films used after the counter was reset will be cleared off to “0”.

⚠️ **CAUTION**

The cumulative number of used films will not be cleared off to “0”.

6 Touch [QUIT].

The display then returns to the “Set Counters” window.
7 Touch [QUIT].

The display then returns to the “Utility (1/3)” window.
Calculating the Used Film Count

It is possible to check the used film count on a list calculated on a per-day, per-week or per-month basis, for each tray, IP address or AE title.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [SET COUNTERS] on the “Utility (1/3)” window.
   The display changes to the “Set Counters” window.

3 Touch [DISPLAY LIST].
4. Specify “Reporting by” and “Count by” accordingly (1. and 2.), and touch [EXECUTE] (3.).

The calculation result will be displayed according to the specified time unit and category.

The calculation result will be displayed as follows.
- Reporting by “Day” : For the past three days counting from a specific day.
- Reporting by “Week” : For the past three weeks counting from a specific week.
- Reporting by “Month” : For the past three months counting from a specific month.

5. Use [控制器] and [控制器] to scroll the window up-and-down, as necessary.

You can scroll the window up-and-down as necessary, when there are eight or more displayed items.

6. After checking the calculation result, touch [QUIT].

The display then returns to the “Display List” window.
7 Touch [QUIT].

The display then returns to the “Utility (1/3)” window.
Overview of Economy Mode

Economy Mode saves power consumption by the equipment. If the Operation Panel is not touched or no data comes from the outside even after a preset specific time period has passed, the system will enter Economy Mode automatically.

Economy Mode consists of the following three mode patterns.

**Screen Saver**
- Puts off the screen display.
- The system enters this mode pattern whenever a time period preset by the TRANSITION TIME setting has passed.

**Stand-By**
- Erases the displayed images, saves heater power consumption and turns the motor OFF.
- (It will take about 10 minutes for the equipment to become available again for film printout after the system has been restored from this mode pattern.)

**Sleep**
- Erases the display images, stops operating the heater and turns the motor OFF.
- (It will take about 15 minutes for the equipment to become available again for film printout after the system has been restored from this mode pattern.)

* Stand-By and Sleep mode patterns will be activated for the time period determined to be in Economy Mode according to the “SCHEDULER” or “CALENDAR” setting.
It is possible for you to set time periods where Economy Mode and Non-Economy Mode are activated for each day of the week. If Economy Mode is determined at night during weekdays, you can suppress power consumption accordingly. Setting such time period appropriately in accordance with the time when the office opens will restore the equipment automatically from Economy Mode.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display changes to the “Set Economy Mode” window.

3. Touch [DETAIL].
   The display changes to the “Detail” window.
4 Touch [SCHEDULER].

The display then changes to the “Scheduler” window.

5 Touch the “ECONOMY MODE” tag (1.), and move to a day of the week/time you wish to determine (2.). Touch then [START TIME] (3.).


Use the same procedure to set up “NON ECONOMY”.

[HINT] The white background is for “NON ECONOMY” use. The red background is for “ECONOMY MODE” use.

6 Use [↑] and [↓] to move to the time you wish to finish the Economy Mode setting (1.), and touch [FINISH TIME] (2.).

The display returns then to the “START TIME” setup window. Frames thus selected will turn “red” and Economy Mode specified for those frames.

7 Touch [ENTER].

The ECONOMY MODE setting will then be determined.

8 Touch [TOP].

The display returns to the “Utility (1/3)” window.

To perform Economy Mode settings continuously, touch [QUIT].
Setting the Office Closing Time on Daily Basis

It is possible to set “Closing all day”, “Closing afternoon” or “Closing morning” for national holidays or irregular office closing days. Office closing days can be set up one year ahead of time. After passing the date thus set up, the “Calendar” mode setting will be canceled automatically. Perform settings for the following year as necessary.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display changes to the “Set Economy Mode” window.

3. Touch [CALENDAR].
   The display changes to the “Calendar” window.
4.9 Setting the Economy Mode (ECONOMY MODE)

4 Select a day you wish to determine it to be closed.
Every time the same date key is touched, the color changes successively as follows.

- **Gray** (Normal open day)
- **Red** (ALL (Closing all day))
- **Yellow** (PM (Closing afternoon))
- **Green** (AM (Closing morning))

Red : ALL (Closing all day)
Yellow : PM (Closing afternoon)
Green : AM (Closing morning)
Gray : Normal open day

After the completion of necessary settings, touch [ENTER].

For the three Economy Mode settings (ALL, PM and AM), see “Setting the Time of Office Closed” on page 4-35.

HINT
One month consists of the two sheets.
Use [←] and [→] to move between the two sheets.

5 After the completion of necessary settings, make sure that the setup data is correct and then touch [ENTER].

The display changes to the finish window.
At the touch of [QUIT], the display changes to the “Set Economy Mode” window.

6 Touch [TOP].

The display returns to the “Utility (1/3)” window.
To perform Economy Mode settings continuously, touch [QUIT].
Setting the Time of Office Closed

The three time-period patterns, “Closing all day”, “Closing afternoon” and “Closing morning”, are available in the Calendar mode. Determine a time period individually for each of those three patterns. “Stand-By” or “Sleep” mode pattern can be activated for each of those three time-period patterns.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [ECONOMY MODE] on the “Utility (1/3)” window.
   The display changes to the “Set Economy Mode” window.

3 Touch [DETAIL].
   The display changes to the “Detail” window.

4 Touch [TIME OF OFFICE CLOSED].
   The display changes to the “Time of Office Closed” window.
5 Set the time when the office goes into a closing day and comes again to open, as follows.
Select an hour frame you want to change (1.), and use [selectors] and [ ] to determine the hour value appropriately (2.).
Select a minute frame you want to change (3.), and use [selectors] and [ ] to determine the minute value appropriately (4.).

The hour value can be changed every an hour and the minute value in every 15 minutes.

HINT
If you do not wish to save the data thus set up, touch [QUIT]. The display will then change to the “Detail” window and the time period returns to the previously set values.

HINT
The timer becomes activated at a time specified as above.
When there is a sufficient idle time before reaching the predetermined time, the system enters Stand-By mode or Sleep mode immediately.
Note that it takes at least 15 minutes to restore from Sleep mode.

6 When necessary settings have been completed, touch [ENTER].

Data thus set up will be saved accordingly.
Time periods determined using the [TIME OF OFFICE CLOSED] button will be applied to “ALL (Closing all day), PM (Closing afternoon), AM (Closing morning)” to be set up in “Setting the Office Closing Time on Daily Basis” described herein.
7 Touch [TOP].

The display then returns to the “Utility (1/3)” window.

To perform Economy Mode settings continuously, touch [QUIT].
Setting the Transition Time to Enter Economy Mode

The transition time to enter Economy Mode can be predetermined as follows.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

   The display changes to the “Set Economy Mode” window.

3. Touch [DETAIL].
   The display changes to the “Detail” window.

4. Touch [TRANSITION TIME].
   The display then changes to the “Transition Time” window.
5 Use [ﰊ] and [ﰈ] to set the transition time to enter Economy Mode (Screen Saver mode pattern, Stand-By mode pattern or Sleep mode pattern) (1.), and touch [ENTER] (2.).

The time value can be increased/decreased in every 15 minutes. A maximum of 120 minutes can be determined for the transition time.

When the setup data is activated, the background turns white. At the touch of [ENTER] with the background turned white, the time thus set up will be saved accordingly. Set the Transition Time longer in order of “Screen Saver < Stand-By < Sleep”.

The Stand-By mode pattern and Sleep mode pattern will be activated only within time periods where Economy Mode has been determined to be effective using [CALENDAR] or [SCHEDULER].

Even if the system is restored from Economy Mode while it is activated, the system goes again into Economy Mode when the time preset has passed with no system manipulations performed on the Operation Panel. When you are using the system on holidays or at night for emergency purposes, we recommend that you set the Transition Time to be relatively longer.
6 Touch [TOP].

The display returns to the “Utility (1/3)” window.
To perform Economy Mode settings continuously, touch [QUIT].
Saving Power

The system enters Economy Mode immediately, whether it is set to be in normal office hours or Economy Mode-activated hours.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Touch [ECONOMY MODE] on the “Utility (1/3)” window.

3 Touch [SAVE POWER].

4 Touch the button for a mode pattern you want to implement. The system immediately enters Economy Mode.

[STAND-BY]
What is displayed on the Operation Panel goes off, and the Power Save Lamp blinks green. To restore from the Stand-By mode pattern, touch the Operation Panel. It will take about 10 minutes to restore.

[SLEEP]
What is displayed on the Operation Panel goes off, and the Power Save Lamp lights green. To restore from the Sleep mode pattern, touch the Operation Panel. It will take about 15 minutes to restore.
Setting the Alarm

This function displays an error indication on the Operation Panel at error occurrence and at the same time, notifies of it by generating an alarm sound. When the alarm is set to OFF status, no sound will be generated even if an error occurs.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Move onto the “Utility (2/3)” window (1.), and touch [SET ALARM] (2.).

   The display changes to the “Set Alarm” window.

3 Touch [SET ALARM].
4. On the “Set Alarm” window that opens, select Alarm and Volume appropriately (1.), and touch [ENTER] (2.).

- **Alarm**
  - **ON**: An alarm will sound at error occurrence. Touching [STOP ALARM] on the Operation Panel will stop it sounding.
  - **PULSE**: The alarm will sound for about three seconds, going then OFF automatically.
  - **OFF**: No alarm sound will be generated when an error occurs.

- **Volume**: The alarm sound volume can be set to HIGH, MEDIUM or LOW.

5. Touch [TOP].

The display then returns to the “Utility (2/3)” window. To perform Set Alarm settings continuously, touch [QUIT].
Setting the Key Touch Tone

You can set the key touch tone generated when a button is touched on the Operation Panel, as follows.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

2. Move onto the “Utility (2/3)” window (1.), and touch [SET ALARM] (2.).
   The display changes to the “Set Alarm” window.

3. Touch [SET KEY TOUCH TONE].

4. On the “Set Key Touch Tone” window that opens, select Key Touch Tone and Volume appropriately (1.), and touch [ENTER] (2.).
   • Key Touch Tone
     ON : A key touch tone will sound when the button is touched.
     OFF : No key touch tone will sound when the button is touched.
     Volume : The key touch tone can be set to HIGH, MEDIUM or LOW.
5 Touch [TOP].

The display then returns to the “Utility (2/3)” window.
To perform Set Alarm settings continuously, touch [QUIT].
Setting a Timing for Implementing Automated F.D.C. When Replacing a Film Pack

Use this function to determine timing for achieving automatic film density calibration processing when supplying a new film pack.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

2. Move onto the “Utility (2/3)” window (1.), and touch [AUTOMATED F.D.C.] (2.).
   The display changes to the “Automated F.D.C.” window.

3. Select timing to achieving Automated F.D.C. when supplying a new film pack (1.), and touch [ENTER] (2.).
   - By each film pack.: Performs automatic film density calibration every time when a new film pack is supplied.
   - By each film lot No.: Performs automatic film density calibration every time when a film lot number is changed.
   - None: Performs no automatic film density calibration when a new film pack is supplied.

NOTE:
A slight difference may result in the density due to differences in sensitivity among film lots.
4 Touch [TOP].

The display returns to the “Utility (2/3)” window. To redo necessary settings, touch [QUIT].
4.12 Setting the Date / Time (SET DATE/TIME)

Setting the Date

You can set the date of the clock incorporated in this equipment as follows.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Move onto the “Utility (2/3)” window (1.), and touch [SET DATE/TIME] (2.).
   The display changes to the “System Date” window.

3 Touch [DATE].

4 Enter a “year (lower two digits of the year)”, “month”, and “day” in this order (1.), and touch [ENTER] (2.).
   DEL : Deletes a figure digit by digit.
   Start entering “0” when a one-digit year, month or day is to be input.
5 Touch [TOP].

The display returns to the “Utility (2/3)” window. To perform TIME settings continuously, touch [QUIT]. The display returns then to the “System Date” window.
Setting the Time

The date of the clock incorporated in this equipment can be set as follows.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Move onto the “Utility (2/3)” window (1.), and touch [SET DATE/TIME] (2.).
   The display changes to the “System Date” window.

3 Touch [TIME].

4 Enter an “hour” and then “minute” (1.), and touch [ENTER] (2.).
   DEL : Deletes a figure digit by digit.

   HINT
   Enter the time representing a day in 24 hours. Start entering “0” when a one-digit hour or minute is to be input.
5 Touch [TOP].

The display returns to the “Utility (2/3)” window.
To reperform TIME settings, touch [QUIT].
The display returns then to the “System Date” window.
Checking the Software Version

Check the software version as follows, if necessary.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

2. Move onto the “Utility (2/3)” window (1.), and touch [SOFTWARE VER.] (2.).
   The display changes to the “Software” window.

3. Check the software version displayed and touch [QUIT].
   The display returns to the “Utility (2/3)” window.
Reprinting Films

To reprint images stored on the equipment’s hard disk, follow the procedure below. This function is available when reprinting is enabled by service settings.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

2. Move onto the “Utility (2/3)” window (1.), and touch [REPRINT] (2.).
   The display changes to the “Reprint” window.

3. Check the date appearing on the window. You can reprint images stored after that date. Touch then [NEXT].
   Due to limited capacity of the hard disk where images to be reprinted are stored, those images will be deleted successively starting from the oldest. Images exposed after the date shown on the window can be reprinted as necessary.

4. Touch figures accordingly to input a four-digit user ID (1.), and touch [ENTER] (2.).
   DEL : Deletes a figure digit by digit.
   User IDs need to be registered by service settings.
5 Touch figures accordingly to input a print ID (1.), and touch [ENTER] (2.).

DEL : Deletes a figure digit by digit.

**HINT**
- A print ID is printed on film.
- Print IDs are printed by service settings.

6 Use [口] and [□] to set the number of copies required (1.), and touch [YES] (2.).

The reprint job will then be registered, and the “Completed.” message appears.

To register another print job continuously, touch [QUIT] to return to the window where a print ID is to be input.

**CAUTION**
It is not allowed to specify the same print job successively. (If you have specified so, the “Failed” message will appear.) Use the [Print Queue] button to delete the relevant job or specify it again after completing reprint processing.

To quit reprint processing, touch [TOP], and you will return to the “Utility (2/3)” window.
Determining a Time Interval for Tutorial Animation Display

You can determine the speed for display of a tutorial animation that guides the film loading or troubleshooting procedure.

1. Touch [UTILITY] on the DRYPIX 4000 initial screen.

2. Move onto the “Utility (3/3)” window (1.), and touch [ANIMATION] (2.).
   The display changes to the “ANIMATION” window.

3. Touch [] and [] to determine the display speed.
4 Touch [PREVIEW].

The tutorial animation will be displayed at a speed determined above.
Confirm the determined speed and touch [QUIT], and you will return to the "ANIMATION" window.

5 Touch [ENTER].
The animation display speed is thus changed, and the “Completed” message appears.

At the touch of [TOP], you can return to the “Utility (3/3)” window.
4.16 Setting the Remaining Film Count (REMAINING FILMS)

Setting the Remaining Film Count

You can set the number of remaining films as follows.

1 Touch [UTILITY] on the DRYPIX 4000 initial screen.

2 Move onto the “Utility (3/3)” window (1.), and touch [REMAINING FILMS] (2.).
   The display changes to the “Remaining Films” window.

3 Select a desired tray (1.), and touch [ENTER] (2.).

4 Touch [+1] and [-1] to change the remaining film count (1.), and touch [ENTER] (2.).
5 Touch [YES].

The display then returns to the window where the number of remaining films is to be set up. Touching [NO] will return you to the “Remaining Films” window.

6 Touch [QUIT].

The display then returns to the window where a desired tray is to be selected.

7 Touch [QUIT].

The display returns to the “Utility (3/3)” window.
QC (Quality Control)

See the separate “DRYPIX 4000 Quality Control Function Reference Guide”.
# Chapter 5
## Troubleshooting

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In Case a Problem May Arise

When the equipment does not operate normally, see the relevant page for you to take necessary actions appropriately, according to the symptom shown below. If the problem cannot be solved properly, contact a FujiFilm service center.

In Case a Problem May Arise

- The Equipment Cannot be Powered ON
  - Page 5-3

- The Power to the Equipment Does Not Turn OFF
  - Page 5-5

- An Error Message is Displayed
  - When a Film Jam Occurred
  - Page 5-7
    - Jam Position : Tray
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    - Jam Position : Conveyance Unit
    - Page 5-18
    - Jam Position : Recording Unit
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- When a Barcode Reading Failure Occurred
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- When a Failure Occurred in Automatic Film Density Correction
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- When a Failure to Insert a Cleaning Roller Occurred
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- Failure in Replacing a Film Pack
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  - A Film Pack Edge Facing the Back of the Tray Was Not Cut Off
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  - A Wrong Film Pack Edge Was Cut Off
  - Page 5-41
  - Films Other Than of the Specified Type Were Loaded and the Tray Was Then Closed
  - Page 5-42
  - Films Other Than of the Specified Type Were Loaded and the Film Pack Was Then Removed
  - Page 5-43
  - Films of a Different Base Color Were Loaded
  - Page 5-44
The Equipment Cannot be Powered ON

The equipment cannot be powered ON even at the press of the Power ON Switch.

The Main Power Switch has been turned OFF.

Set the Main Power Switch to the “I” side to turn it ON.

When the Main Power Switch is turned ON, the Power Lamp lights green on the Operation Panel.

The power cord has been disconnected.

Turn the Main Power Switch OFF and then plug the power cord firmly in the outlet.

When the Main Power Switch is turned ON, the Power Lamp lights green on the Operation Panel.
The Equipment Does Not Start Up Normally

Even though the power has been turned ON, the equipment does not start up normally.

### Nothing appears on the Operation Panel

Contact the FujiFilm service personnel.

### An error message appears while the equipment is in process of startup

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Touch [STOP ALARM] on the Operation Panel to silence the alarm. Close an open cover. Startup processing will then go on.

When a cover was opened mistakenly halfway through the startup processing, an error message appears. Close the relevant cover. The equipment will then reboot.

### A tray is unlocked.

- Tray 1
- Tray 2

Contact the FujiFilm service personnel because a tray may be defective.

### The shutter is inserted in a tray.

- Tray 1
- Tray 2

Remove the shutter and touch [SHUTDOWN] to quit the equipment. Reboot then it accordingly.
The Power to the Equipment Does Not Turn OFF

The equipment does not shut down even at the press of [SHUTDOWN] on the Operation Panel.

**An error message appears**

An unprocessed film remains. Touch [AFTER PRINT] or [IMMEDIATELY] in the equipment.

**The “System terminating…” message does not disappear**

Ten minutes has passed since the “System terminating…” message had appeared. Turn OFF (press to the O side) the Main Power Switch at the bottom right-side corner on the front of the equipment.
5.4 An Error Message is Displayed

An Error Message is Displayed

When an error message is displayed, take necessary actions following the on-screen procedure to solve the problem.

● When an operation procedure is displayed

Touch [STOP ALARM] on the Operation Panel, and cancel the error message following the procedure that is displayed on the same panel.

[HINT]

When the alarm sound is in “OFF” position, touch [CONFIRM] on the Operation Panel. The operation procedure to be followed will appear on the Operation Panel.

- When a film jam occurred  
  Go to page 5-7.

- When a barcode reading failure occurred  
  Go to page 5-28.

- When a failure occurred in automatic film density correction  
  Go to page 5-31.

- When a failure to insert a cleaning roller occurred  
  Go to page 5-33.

- Other messages  
  Go to page 5-34.

● When the “Error Detected” message is displayed

Touch [STOP ALARM] on the Operation Panel and jot down the Error code/Detail info. code that appears.

Contact then a FujiFilm service center.

[HINT]

When the alarm sound is in “OFF” position, touch [CONFIRM] on the Operation Panel. The operation procedure to be followed will appear on the Operation Panel.
When a Film Jam Occurred

When a film jams inside the DRYPIX 4000 equipment, the alarm sounds or an error message appears and then processing discontinued subsequently. In the event of such problem, remove the jam film following the procedure described on the pages shown below, depending on the unit where a film jam occurred.

- Tray ........................................ Page 5-8
- Conveyance Unit...................... Page 5-18
- Recording Unit ....................... Page 5-20
- Thermal Development Unit ...... Page 5-22
- Eject Unit ............................... Page 5-26

**WARNING**
Do not reload in a tray a film that has once jammed in the equipment. Do not take unused films out of a tray or add new films in an already-loaded film pack. This will result in a misoperation or failure of the equipment. Correct output result will not be obtained either.

**CAUTION**
When locking a tray or cover, be careful not to pinch your fingers or hands.

**CAUTION**
You may burn yourself if your bracelet or necklace touches high-temperature parts or units, such as inlet of the Thermal Development Unit or Eject Unit (areas around where the Small Upper Cover is opened).

**HINT**
The alarm will not sound when the Alarm has been set to “OFF” by Utility settings.

**HINT**
How to correct a film jam is explained also on the reverse side of the cover of a unit where it occurred.
**A Film Jamming in a Tray**

Use the procedure described below to remove a film jamming at the back of a tray.

- Tray 1 is taken here as an example for explaining how to correct a film jam. The same procedure applies to correcting a film jam occurring in Tray 2.

1. **Touch [STOP ALARM] on the Operation Panel.**
   - [HINT] A tutorial animation that guides you to correct a film jam will be displayed on the Operation Panel. Follow the procedure presented in the animation to remove the jam film.

2. **Open the Upper Right-side Cover and Lower Right-side Cover of the equipment.**

3. **Open the Conveyance Unit Cover inside the Upper Right-side Cover.**
4 Remove a jam film if there is any.

**CAUTION**

Removing a jam film forcibly may result in damaging a roller or other units.

Go to page 5-10 when there is no jam film inside the Upper or Lower Right-side Cover.

5 Close all covers.

**CAUTION**

When closing covers, be careful not to pinch your fingers.

6 Touch [YES] on a confirmation window that opens on the Operation Panel.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

**HINT**

A defectively output image will be printed again.
When there is no film jamming inside the Upper or Lower Right-side Cover

1 Close all covers (1.), and touch [NO] on a confirmation window that opens on the Operation Panel (2.).

**CAUTION**

When closing covers, be careful not to pinch your fingers.

2 Carefully place the shutter in the groove on top of Tray 1 and push it in straight as far as it will go.

3 Touch [UNLOCK TRAY] on the Operation Panel to unlock the tray.
4 Pull the tray out toward you.

5 Check to see if a film is jamming at the back of the tray.
   - Go to page 5-13 if there is no film jamming at the back of the tray.

6 Touch [YES] on the Operation Panel.

7 Carefully pull the jam film out toward you to remove it.
   - **CAUTION**
     Removing a jam film forcibly may result in damaging a roller or other units.
8 Push the tray in firmly as far as it will go (1.), and remove then the shutter (2.).

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

**CAUTION**
When closing covers, be careful not to pinch your fingers.

**HINT**
A defectively output image will be printed again.
When there is no film jamming at the back of a tray

1 Touch [NO] on the Operation Panel.

2 Push the tray in firmly as far as it will go (1.), and remove then the shutter (2.).

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

HINT
A defectively output image will be printed again.

Go to page 5-14 if the same error is indicated once again.
5.4 An Error Message is Displayed

When the same error is indicated once again

If an error recurs, take necessary actions appropriately following the on-screen messages.

1 Touch [NO] on the Operation Panel.

2 [CONTINUE] ............. Forcibly continues processing.  
  Page 5-15

[REBOOT] .............. Reboots the equipment.  
  Page 5-16

[DISABLE TRAY] ... Disables using a tray.  
  Page 5-17
Forcibly continuing processing

1 Touch [YES] on the Operation Panel.

2 Push the tray in firmly as far as it will go (1.), and remove then the shutter (2.).

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

A defectively output image will be printed again.
5.4 An Error Message is Displayed

Rebooting the equipment


2. Push the tray in firmly as far as it will go (1.), and remove then the shutter (2.).

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

A defectively output image will be printed again.
Disabling using Tray 1


2. Push the tray in firmly as far as it will go (1.), and remove then the shutter (2.).

   **HINT**
   A defectively output image will be printed again.

Printouts can be generated from Tray 2.
A Film Jamming in the Conveyance Unit

Use the procedure described below to remove a film jamming in the Conveyance Unit.

1 Touch [STOP ALARM] on the Operation Panel.

A tutorial animation that guides you to correct a film jam will be displayed on the Operation Panel. Follow the procedure presented in the animation to remove the jam film.

2 Open the Upper Right-side Cover of the equipment.

3 Open the Conveyance Unit Cover inside the Upper Right-side Cover.

4 Remove a jam film, if there is any.
5 Close all covers firmly.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

⚠️ CAUTION

When closing covers, be careful not to pinch your fingers.

💡 HINT

A defectively output image will be printed again.
A Film Jamming in the Recording Unit

Use the procedure described below to remove a film jamming in the Recording Unit.

1 Touch [STOP ALARM] on the Operation Panel.

**HINT**
A tutorial animation that guides you to correct a film jam will be displayed on the Operation Panel. Follow the procedure presented in the animation to remove the jam film.

2 Open the Upper Front Cover.

3 Turn the right-side handle clockwise to forward a jam film.

4 Remove then the jam film.
5.4 An Error Message is Displayed

5 Close the Upper Front Cover firmly.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

**CAUTION**

When closing covers, be careful not to pinch your fingers.

**HINT**

A defectively output image will be printed again.
A Film Jamming in the Thermal Development Unit

Use the procedure described below to remove a film jamming in the Thermal Development Unit.

   
   HINT
   A tutorial animation that guides you to correct a film jam will be displayed on the Operation Panel. Follow the procedure presented in the animation to remove the jam film.

2. Open the Upper Front Cover.

3. When a jam film can be seen, touch [HERE] on the Operation Panel.
   
   An action to be taken will be displayed.

   (When no jam film can be seen, go to page 5-24.)

4. Turn both the right- and left-side handles to forward the jam film.
   
   Turn the two handles one by one until a film end comes out completely.

   HINT
   Turn the left-side handle counterclockwise and the right-side handle, clockwise.
5 Remove the jam film.

6 Close the cover firmly.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

**CAUTION**

When closing the cover, be careful not to pinch your fingers.

**HINT**

A defectively output image will be printed again.
When no jam film can be seen

1 Touch [NO FILMS] on the Operation Panel. An action to be taken will be displayed.

2 Turn the left-side handle counterclockwise to forward a jam film.

3 Remove the jam film.
4 Close the cover firmly.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

⚠️ CAUTION

When closing the cover, be careful not to pinch your fingers.

💡 HINT

A defectively output image will be printed again.
A Film Jamming in the Eject Unit

Use the procedure described below to remove a film jamming in the Eject Unit.

1 Touch [STOP ALARM] on the Operation Panel.

A tutorial animation that guides you to correct a film jam will be displayed on the Operation Panel. Follow the procedure presented in the animation to remove the jam film.

2 Dismount the Small Upper Cover from the equipment.

When doing so, hold the grip on top of the cover while slightly raising it to dismount.

3 Remove a jam film.
4 Remount the Small Upper Cover fitting the claws to each other at the back.

The display returns to the DRYPIX 4000 initial screen in about three to five minutes.

⚠️ CAUTION ⚠️

When closing the cover, be careful not to pinch your fingers.

💡 HINT 💡

A defectively output image will be printed again.
When a Barcode Reading Failure Occurred

A barcode reading failure occurring when a film pack is replaced will disable information that includes film lot number and film type to be recognized correctly.

When a film pack was not loaded properly

1 Touch [UNLOCK TRAY] on the Operation Panel.

2 Pull a tray out carefully.

   Check to see the following.
   
   (1) The arrow label is red (DI-HL or DI-HLc) or green (DI-ML).
   (2) The film pack is fit neatly in the tray.

3 Set a film pack correctly and push the tray in again carefully.

   **CAUTION**

   When pushing the tray in to close, do so holding your hands on it as illustrated, being careful not to pinch your fingers in the Front Cover.

4 When a barcode is recognized properly, the display returns to the DRYPIX 4000 initial screen.

   **HINT**

   Under certain circumstances, automatic film density correction processing will be performed.
5.4 An Error Message is Displayed

When a film pack was loaded properly

1 Touch [UNLOCK TRAY] to open a tray. Check to see that a film pack has been loaded properly and close the tray.

If the same error message appears again, perform step 2 and thereafter.

2 Remove the film pack forcibly.

The “Input barcode no.” window opens.

3 Input a 20-digit barcode number on the window that opens (1.), and touch [ENTER] (2.)

The barcode number is printed on the back of a film pack removed.

Input this 20-digit number.

The “Input barcode no.” window opens again unless a barcode number is recognized correctly.

HINT

Under certain circumstances, automatic film density correction processing will be performed as well.

HINT

If a barcode reading failure recurs, it is possible that there is dirt or dust inside the tray. In such an instance, check to see that there is no dust or dirt in the tray, and clean it well if there is any.

5 Troubleshooting
5.4 An Error Message is Displayed

● When forcibly removing a film pack

1 Remove a film pack forcibly.
   A confirmation window then opens.

2 Touch [CONFIRM].

**CAUTION**
Slight differences may be caused in densities owing to sensitivities different from film lot to film lot. For this reason, perform automatic film density correction processing in Utility mode.

**HINT**
Under certain circumstances, automatic film density correction processing will be performed as well.

**HINT**
If a barcode reading failure recurs, it is possible that there is dirt or dust inside the tray. In such an instance, check to see that there is no dust or dirt in the tray, and clean it well if there is any.
5.4 An Error Message is Displayed

When a Failure Occurred in Automatic Film Density Correction

Automatic film density correction processing may result in a failure for any reason. In such cases, this processing needs to be performed again in order to maintain image density constant.

When automatic film density correction resulted in a failure after a film pack has been loaded

1. Touch [QUIT].

   The display returns to the DRYPIX 4000 initial screen.

2. To perform automatic film density correction again, touch [AUTO F.D.C.] on the “Utility (1/3)” window.

   The display then changes to a window where a tray is to be selected.

3. Select a tray where you wish to perform automatic film density correction (1.), and touch [EXECUTE] (2.)

   If the “FINISHED” message appears, an image that has been subjected to automatic film density correction will be printed.

   **CAUTION**

   If automatic film density correction processing results unsuccessful again, a print will be output according to values on the density table effective before the error occurrence. If the density on the output print is appropriate, it can be used as is.
5.4 An Error Message is Displayed

When automatic film density correction resulted in a failure in Utility mode

1 Touch [TOP] on the Operation Panel.

The display returns to the “Utility (1/3)” window.

2 Touch [AUTO F.D.C.].

The display returns to a window where a tray you wish is to be selected.

3 Select a tray where you wish to perform automatic film density correction (1.), and touch [EXECUTE] (2.)

If the “FINISHED” message appears, an image that has been subjected to automatic film density correction will be printed.

CAUTION

If automatic film density correction processing results unsuccessful again, a print will be output according to values on the density table effective before the error occurrence. If the density on the output print is appropriate, it can be used as is.
When a Failure to Insert a Cleaning Roller Occurred

An error occurs if processing is continued with no cleaning roller restored properly after it was dismounted for correcting a film jam or cleaning purposes.


   The alarm will not sound when it has been set to be “OFF” by Utility settings. Touch [CONFIRM] on the Operation Panel.

2. Open the Upper Right-side Cover.

3. Open the Conveyance Unit Cover (1.), and place the cleaning roller correctly (2.)

   **CAUTION**

   Hold the cleaning roller with both hands so that you may not drop it on the floor. When placing the cleaning roller, be careful not to pinch your fingers.

4. Close the Upper Right-side Cover firmly.

   The DRYPIX 4000 initial screen then opens on the Operation Panel, enabling you to resume processing.

   **CAUTION**

   When closing the cover, be careful not to pinch your fingers.
Other Error Messages

A failure to remove the shutter from a tray

An error occurs if processing is continued with the shutter left inserted in a tray.

1. Check the error condition displayed on the Operation Panel.

2. Pull the shutter out toward you to remove.

   The error condition will be canceled, displaying then the DRYPIX 4000 initial screen on the Operation Panel.

3. Hook the shutter on the left side or rear of the equipment.
No Film Pack Has Been Loaded

A tray pulled out to replacing film pack was closed without loading a new film pack.

Loading a film pack

1 Pull a tray out without touching [SHUT TRAY WITHOUT FILM].

HINT
The [SHUT TRAY WITHOUT FILM] message appears when a tray is closed empty. The tray will be unlocked automatically if a film pack is not loaded properly.

2 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.

HINT
For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
Not loading a film pack

1 Touch [SHUT TRAY WITHOUT FILM].

The [Tray 1 is open. Set Tray] window then opens.

**HINT**
The [SHUT TRAY WITHOUT FILM] message appears when a tray is closed empty.
The tray will be unlocked automatically if a film pack is not loaded properly.

2 Carefully push a tray in until it locks firmly.

The display returns to the DRYPIX 4000 initial screen, displaying then [UNLOCK TRAY 1].

**CAUTION**
When pushing the tray in to close, do so holding your hands on it as illustrated, being careful not to pinch your fingers in the Front Cover.
A Film Pack Was Loaded Upside-Down

A new film pack was loaded upside-down in a tray and it was then closed.

1 Check the error condition displayed on the Operation Panel.

A tutorial animation that guides you to replace a film pack will be displayed again.

2 Carefully pull a tray out toward you.

If you see a barcode on the top face of the film pack loaded in the tray, it has been loaded upside-down.

3 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.

HINT: The tray will be unlocked automatically if a film pack is not loaded properly.

For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
A Film Pack Was Loaded in a Wrong Direction

A new film pack was loaded in a tray in a wrong direction in terms of its leading edge and trailing edge and the tray was then closed.

1. Check the error condition displayed on the Operation Panel.
   A tutorial animation that guides you to replace a film pack will be displayed again.
   ![HINT](image)
   The tray will be unlocked automatically if a film pack is not loaded properly.

2. Carefully pull a tray out toward you.
   When the red arrow label (DI-HL or DI-HLc) or green arrow label (DI-ML) is located toward you, the film pack has been loaded in a wrong direction.

3. Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.
   ![Match arrows with each other.](image)
   For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
The Label Was Not Peeled Off a Film Pack

A new film pack was loaded in a tray without peeling off the arrow label and the tray was then closed.

1. Check the error condition displayed on the Operation Panel.
   A tutorial animation that guides you to replace a film pack will be displayed again.

   [HINT] The tray will be unlocked automatically if a film pack is not loaded properly.

2. Carefully pull a tray out toward you.

3. Raise one end of the film pack to tear off the label (1.), and open both ends of the film pack to the back and toward you (2.), as illustrated.

   [HINT] For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
5.5 Failure in Replacing a Film Pack

A Film Pack Edge Facing the Back of the Tray Was Not Cut Off

A new film pack was loaded in a tray and the tray was then closed without cutting off a film pack edge that faces the back of the tray.

1  Touch [UNLOCK TRAY] on the Operation Panel.

2  Carefully pull a tray out toward you.

   ![CAUTION]
   A badly deformed film pack cannot be reused. Replace it for a new pack.

3  Use the cutter stored on the right-hand side of the Operation Panel (1.) to cut off the film pack along the tray edge (2.), as illustrated.

   ![CAUTION]
   If the cutter’s blade protection is broken, the blade will be exposed posing then danger to the user. Do not touch the unprotected blade. Replace a dull cutter hard to cut the film pack, as necessary.

   For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
A Wrong Film Pack Edge Was Cut Off

A new film pack was loaded in a tray in a wrong direction in terms of its leading edge and trailing edge and the tray was then closed cutting off a film pack edge that faces the back of the tray. In such cases, the film pack cannot be removed because it was cut off incorrectly.

1 Touch [UNLOCK TRAY] on the Operation Panel.

2 Carefully pull the tray out toward you (1.) to remove a film pack (2.).

   **WARNING**

Do not take unused films out of a film pack loaded and opened in a tray or add new films in it. This will result in a misoperation or failure of the equipment.

3 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.

   For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
Films Other Than of the Specified Type Were Loaded and the Tray Was Then Closed

If films other than that specified for the DRYPIX 4000 are loaded, a barcode reading error may occur. The type of a film that can be used for the DRYPIX 4000 is “DI-HL”, “DI-HLc”, or “DI-ML”.

1 Touch [UNLOCK TRAY] on the Operation Panel.

**CAUTION**

It is possible for you to continue processing by forcibly removing the film pack. However, color tone and/or density generated on an output film may be different from those appearing on a film output normally.

2 Carefully pull the tray out toward you (1.) to remove the film pack (2.).

**WARNING**

Do not take unused films out of a film pack loaded and opened in a tray or add new films in it. This will result in a misoperation or failure of the equipment.

3 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.

For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
Films Other Than of the Specified Type Were Loaded and the Film Pack Was Then Removed

If printouts are generated forcibly using films other than of the specified type, color tone and/or density generated on an output film may appear abnormal. The type of a film that can be used for the DRYPIX 4000 is “DI-HL”, “DI-HLc”, or “DI-ML”.

1. Use the Utility operation to unlock the tray and remove the loaded films.
   - For details of the procedure, see “Unlocking Tray” under Chapter 4.

2. Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.
   - For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
Films of a Different Base Color or Type Were Loaded

An error may occur if films of a different base color or type are loaded.
During a routine operation, touch [CONFIRM] at step 1 to return to the DRYPIX 4000 initial screen.
When [UNLOCK TRAY] is touched at step 1, proceed to step 2 thereafter.

1 Touch [UNLOCK TRAY (1)] on a confirmation window that opens.
   If you do not wish to change the film pack, go to page 5-46.

2 Carefully pull the tray out toward you (1.) to remove the film pack (2.).

   WARNING
Do not take unused films out of a film pack loaded and opened in a tray or add new films in it.
This will result in a misoperation or failure of the equipment.

3 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML)
   (marked with an arrow) and the arrow mark on the tray match with each other.

   Load in the tray a film pack of the same base color and type determined for the target tray.
For details of procedures hereafter, see “Replacing the Film Pack” under Chapter 3.
• Film base color can be identified according to the film name.
  DI-HL : Blue base
  DI-HLc : Clear base
  DI-ML : Blue base

• To identify a base color and type determined for the equipment, see the color of the frame where the remaining film count is displayed on the Operation Panel.
  Blue : DI-HL (Blue base)
  Gray : DI-HLc (Clear base)
  Pink : DI-ML (Blue base)
5.5 Failure in Replacing a Film Pack

When you do not wish to change the film pack

1 Remove a film pack and touch [CONFIRM] on a confirmation window that opens.

After automatic film density calibration processing is performed, the display will then return to the DRYPIX 4000 initial screen.

*CAUTION*
A film type can be recognized properly only when the barcode has been read correctly.

*CAUTION*
In this case, color tone and/or density generated are different from those achieved when printed on films of specified base color.
Chapter 6

Care and Maintenance

6.1 Washing the Cleaning Roller with Water .......................... 6-2
6.2 Cleaning the Inside and Surroundings of the Equipment .......... 6-4
6.3 Users Checksheet (Care and Maintenance) ......................... 6-8
6.4 About Preventive Maintenance ........................................ 6-9
6.1 Washing the Cleaning Roller with Water

We recommend that you wash the cleaning roller with water once every week to secure print image quality. When white spots or traces of lint appear on output films, also wash the cleaning roller with water following the procedure described herein.

1. Make sure that no film recording or output processing is being performed, and then shut the system down.

   ! CAUTION
   An error may occur if procedural steps that follow are performed without shutting down the system.

2. Open the Upper Right-side Cover.

3. Open the Conveyance Unit Cover (1.) to remove the cleaning roller (2.).

   ! CAUTION
   When removing the cleaning roller, hold it with both hands being careful not to drop it on the floor.
4 Wash the cleaning roller with water.
While splashing water onto the cleaning roller, rub the surface gently to clean.

![Wash.]

**CAUTION**
If the cleaning roller is rubbed roughly to removing stubborn dirt or dust adhered to the surface and that does not come off only with water, the roller surface may be damaged.
If white spots still appear on output films even after it has been water-washed, it is time to replace the cleaning roller for a new one.
Replace the cleaning roller **around every three years**.

5 Use a gauze moistened with alcohol (ethanol anhydride) to wipe off water remaining on the cleaning roller. (The cleaning roller will be dried in a few minutes.)

![Wipe off.]

**CAUTION**
Dry the cleaning roller sufficiently, otherwise correct film density may not be obtained or unevenness may appear on an output film.

6 Restore the cleaning roller (1.), and close the Conveyance Unit Cover (2.).

![Restore.]

7 Close the Upper Right-side Cover.

![Close.]
6.2 Cleaning the Inside and Surroundings of the Equipment

Cleaning the Inside and Surroundings of the Equipment

Clean each unit of the equipment once every three months, following the procedures described below.

1 Cleaning the Operation Panel

Use a cleaner for LCD or the like to wipe off the panel display and then wipe it off with a dry cloth.

⚠️ CAUTION
Wipe off the cleaner or the like completely.
2 Cleaning a tray

Clean a tray when, for instance, replacing a film pack.

1 Open a tray.

2 Use a vacuum cleaner or a cloth moistened with water to clean the tray.

**CAUTION**

Do not use ethanol. If ethanol is impregnated into the barcode reader filter, it can be damaged.

3 Load a new film pack so that its red label (DI-HL or DI-HLc) or green label (DI-ML) (marked with an arrow) and the arrow mark on the tray match with each other.

For details of procedures hereafter, see “Replacing the Film Pack” under chapter 3.
6.2 Cleaning the Inside and Surroundings of the Equipment

3 Cleaning the front air filter

1 Dismount the Lower Front Cover.

2 Slide the front air filter to dismount it (1.), and clean dust or dirt with a vacuum cleaner or the like (2.).

3 Restore the air filter (1.), and remount the Lower Front Cover (2.).

CAUTION

When remounting the cover, be careful not to pinch your fingers.
6.2 Cleaning the Inside and Surroundings of the Equipment

4 Cleaning the right-side air filter

1 Dismount the right-side air filter (1.), and clean it with a vacuum cleaner or the like (2.).

2 Remount the right-side air filter.
6.3 Users Checksheet (Care and Maintenance)

Users Checksheet (Care and Maintenance)

We recommend that you periodically check the following so that you can optimally operate the equipment constantly. Make a copy when you are using this checksheet.

### Verification

<table>
<thead>
<tr>
<th>Details</th>
<th>Frequency</th>
<th>Results of users verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are the power cable and/or grounding cable connected/fastened properly?</td>
<td>Daily</td>
<td></td>
</tr>
<tr>
<td>Is the cable connected/fastened properly between this equipment and other equipment?</td>
<td>Daily</td>
<td></td>
</tr>
</tbody>
</table>

### Cleaning

<table>
<thead>
<tr>
<th>Unit for cleaning</th>
<th>Frequency</th>
<th>Reference</th>
<th>Date of cleaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning roller</td>
<td>Weekly</td>
<td>Pages 6-2 and 6-3</td>
<td></td>
</tr>
<tr>
<td>Operation Panel</td>
<td>Every three months</td>
<td>6-4</td>
<td></td>
</tr>
<tr>
<td>Tray</td>
<td>Every three months</td>
<td>6-5</td>
<td></td>
</tr>
<tr>
<td>Air filter</td>
<td>Every three months</td>
<td>6-6, 6-7</td>
<td></td>
</tr>
</tbody>
</table>
About Preventive Maintenance

To maintain safety for the customer, the user, and other people, perform the preventive maintenance mainly involved cleaning of the parts and replacing of consumables. For the preventive maintenance, consult our official dealer or local representative. Necessary cycle of periodical maintenance or part replacement depend on the usage conditions or operation time per day. Details of maintenance or inspections performed by the specified dealers differ depending on the maintenance contract.

● Maintenance and Inspection Items Assigned to Official Dealer

<table>
<thead>
<tr>
<th>Periodical Maintenance and Inspection Items</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Checking of the interlock function</td>
<td>Every year</td>
</tr>
<tr>
<td>Checking of the fan operation</td>
<td>Every year</td>
</tr>
<tr>
<td>Cleaning of the cleaning roller, thermal development unit and density measurement unit</td>
<td>Every year</td>
</tr>
<tr>
<td>Cleaning of the inside of equipment</td>
<td></td>
</tr>
<tr>
<td>Checking of the movability</td>
<td>Every year</td>
</tr>
<tr>
<td>Checking of the image output</td>
<td>Every year</td>
</tr>
<tr>
<td>Cleaning of the suction disk</td>
<td>Every year</td>
</tr>
<tr>
<td>Checking and cleaning of the rubber belt</td>
<td>Every 3 years</td>
</tr>
<tr>
<td>Cleaning of the vertical scanning conveyance roller</td>
<td>Every 3 years</td>
</tr>
</tbody>
</table>

● Main Periodical Replacement Parts

<table>
<thead>
<tr>
<th>Periodical Replacement Parts</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning roller</td>
<td>Every 3 years</td>
</tr>
</tbody>
</table>

The cycles of periodical maintenance and inspection and of parts replacement differ depending on the amount and environment of usage, and the daily operation time. For details, contact us directly or our official dealer.
Chapter 7

Specifications

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 Specifications</td>
<td>7-2</td>
</tr>
<tr>
<td>7.2 External View and Weight</td>
<td>7-3</td>
</tr>
</tbody>
</table>
7.1 Specifications

Specifications

Depending on the intended use, the tray specification can be selected from one-tray, two-tray or three-tray type.

Standard Components
DRYPIX 4000 main unit (One-tray, two-tray and three-tray specification types are available.)
image buffer memory board (1GB)

Processing Capacity
Max. : Approx. 110 films (14" × 17") / hour.
      Approx. 160 films (26 × 36cm) / hour.
* Note that the processing capacity in actual operation is dependent on the model and usage of a connected modality.

Applicable Film

<table>
<thead>
<tr>
<th>Fuji Medical Dry Imaging Film</th>
<th>DI-HL (Blue-base)</th>
<th>DI-HLC (Clear-base)</th>
<th>DI-ML (Blue base)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.4 × 43.0cm (14&quot; × 17&quot;)</td>
<td>100 sheets / pack</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>35.4 × 35.4cm (14&quot; × 14&quot;)</td>
<td>100 sheets / pack</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>25.7 × 36.4cm (26 × 36cm)</td>
<td>150 sheets / pack</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>25.2 × 30.3cm (10&quot; × 12&quot;)</td>
<td>150 sheets / pack</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>20.1 × 25.2cm (8&quot; × 10&quot;)</td>
<td>150 sheets / pack</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

Recording Pixel Size
Standard 100µm
High resolution 50µm

CR Image Size Reduction
When you printed a CR Image in real size, printed image size will be almost 100% of reduction rate.
* At the printout from the modality, the size of image is automatically scaled according to the print area on the film.

Gray Scale
14bits (16384 levels)

Maximum Density
Select one of 2.64, 3.0 and 3.3.
For the DI-ML, select 3.6 or 4.0.
* Note that 3.6 and 4.0 are for mammography use only.

Power Supply Conditions
Input voltage : AC 100-120V/200-240V
Frequency : 50-60Hz
Allowable variations in voltage : ± 10%
Rated current: 12A/6A
Phase : Single

Environmental Conditions
(1) Operating conditions
Temperature/humidity : 15°C (40-70%RH) -30°C (15-70%RH) (no dew condensation)
Maximum heating value : 1800kJ

(2) Non-operating conditions
Temperature : 0-45°C
Humidity : 10-90%RH (no dew condensation)

Supplies
Fuji Medical Dry Imaging Film
DI-HL (Blue-base), DI-HLC (Clear-base), DI-ML (Blue base)
Cutter

Options
Supply film tray, Sorter
## External View and Weight

### With no sorters

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRYPIX PLUS (DRYPIX 4000)</td>
<td>600</td>
<td>585</td>
<td>1090</td>
<td>160</td>
</tr>
<tr>
<td></td>
<td>(including the three trays)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Three-tray:** W600×D585×H1090 (mm)
- **Two-tray:** W600×D585×H1090 (mm)
- **One-tray:** W600×D585×H1090 (mm)
### With sorters

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRYPIX PLUS (DRYPIX 4000)</td>
<td>600</td>
<td>585</td>
<td>1390</td>
<td>170</td>
</tr>
<tr>
<td>(including the three trays)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Three-tray**: W600 × D585 × H1390 (mm)
- **Two-tray**: W600 × D585 × H1390 (mm)
- **One-tray**: W600 × D585 × H1390 (mm)
1 Maintenance and Inspection Items Assigned to Specified Dealer

For periodical inspection of the equipment and necessary arrangements, consult our official dealer or local representative.
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