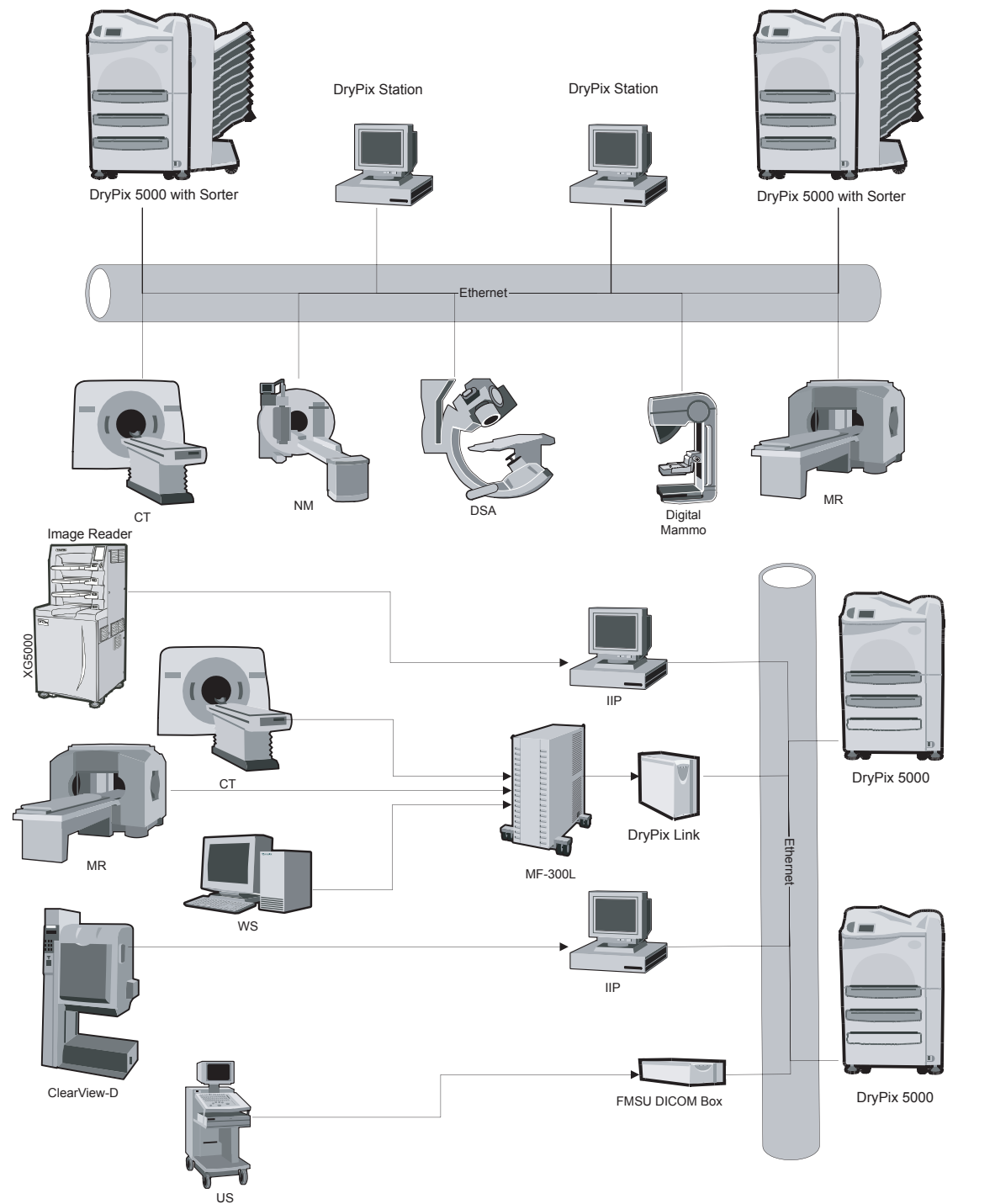


Connectivity Diagram



Specifications subject to change without notice

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FUJIFILM MEDICAL SYSTEMS

Product Data



DRYPIX 5000 Dry Laser Imager

Application

The Fuji Medical Dry Laser Imager DryPix 5000 is an image recording device that uses laser exposure and thermal development to print the image data sent from medical diagnostic imaging modalities. Its primary application is for Centralized imaging departments and high speed imaging modalities such as multi-slice spiral CT where high throughput is required. It is also ideal for Full Field Digital Mammography imaging.

Features

Using semiconductor laser exposure and thermal development, the DryPix 5000 processes 180 14"x17", 240 10"x14", 230 10"x12" or 200 8"x10" films per hour, providing extraordinary throughput for centralized imaging applications. The DryPix 5000 has unrivalled gray scale reproduction, image consistency and image stability due to its 14 bit density resolution, bar code reader driven automatic film density calibration and Fuji dry silver film technology. Using 50-micron scanning pitch and selectable 50-micron or 100-micron pixel resolution on all film sizes also enhances image quality from the DryPix 5000. Fuji's Image Intelligence™ image processing includes Advanced Variable Response (A-VR) Spline image interpolation and Smooth Curve Arranging (SAR) gamma tables. A-VR offers ultra-

sharp alphanumeric characters with a wide range of image interpolation from ultra-sharp to ultra-smooth and SAR offers optimized gray scale mapping tables.

Both are ideally matched to the imaging requirements of each diagnostic application.

The optional second and third film drawers allow you to output multiple film sizes automatically. 14"x17", 10"x14", 10"x12" and 8"x10" film sizes can be selected. The optional 10-bin film sorter automatically sorts films from each modality into separate bins, greatly enhancing workflow around the imager, and speeding films to the Radiologist.

The DryPix 5000 has a built-in DICOM Print Server for direct connection to the network. The optional DryPix Station provides automatic fail-over capability for print redundancy from all your digital imaging modalities.

System Configuration

Standard Components:

DryPix 5000 Dry Laser Imager

System Includes:

- * DryPix 5000 Dry Laser Imager
- * Built-in DICOM Print Server
- * First Film Drawer
- * 256 MB RAM Memory
- * Power Cord - 4.5m
- * DryPix 5000 Operation and Service Manuals

Options

- * DryPix 5000 10 Bin Film Sorter
- * DryPix 5000 Additional film drawers for 14"x17", 10"x14" and 10"x12" films
- * DryPix 5000 8"x10" Film Drawer
- * DryPix 5000 8"x10" Arm for First Film Drawer
- * DryPix 5000 256 MB Memory Upgrade
- * DryPix 5000 Seismic Bracket Kit
- * FMSU DICOM Box
- * DryPix Link
- * DryPix Station

Supplies

Fuji Medical Dry Imaging Film DI-HL (Blue base) DI-HLc (Clear base):

14"x17"	100 sheets per box
	500 sheets per case
8"x10"	150 sheets per box
	750 sheets per case
DI-HL (Blue base) only:	
10"x14"	150 sheets per box
	750 sheets per case
10"x12"	150 sheets per box
	750 sheets per case

Plus 1 sheet per box not used for imaging

Semi-automatic loading, daylight load film packaging with bar code for Automatic Film Density Calibration

Storage Conditions:

- *Temperature 50°F to 74°F
- *Relative Humidity 45+/- 15% RH

Specifications

Laser Recording Unit:
Class 3b
Medium Semiconductor laser
Wavelength 660 nm
Max. Output 50 mW (CW)

Thermal Development:
Processing Capacity:
14"x17" 180 Films/Hour
10"x14" 240 Films/Hour
10"x12" 230 Films/Hour
8"x10" 200 Films/Hour
Time to First Film:
14"x17" 65 seconds

Spatial Resolution:
Standard Resolution
10 pixels / mm (254 dpi)
Pixel Size 100 microns
High Resolution
20 pixels / mm (508 dpi)
Pixel Size 50 microns
Maximum Number of Recording
Pixels:

Standard Resolution
14"x17": 3520x4280
10"x14": 3600x2540
10"x12": 2506x3016
8"x10": 2000x2510
High Resolution
14"x17": 7040x8560
10"x14": 7200x5080
10"x12": 5012x6032
8"x10": 4000x5020

Gray Scale Resolution:
14 bits (16,384 gray levels)
Maximum Density:
Selectable: 2.64, 3.0, 3.3 or 3.6

Connection Specifications

Input:
One network channel
100 Base-TX/10 Base-T

Connectable Devices:
Any DICOM Print Compliant modality such as Digital X-ray, CT, MR, Ultrasound, Nuclear Medicine, DSA etc.
Legacy non-DICOM modalities may be connected using FMSU DICOM Box or DryPix Link

Supported DICOM SOP Classes
*Verification SOP Class
*Basic Gray Scale Print Management Meta SOP Class (SCP)
*Print Job SOP Class (SCP)
*Annotation SOP Class
*Queue Management SOP Class

Number of Simultaneous
Associations: 10
Maximum Number of Registered
Clients: 32
Maximum Input Image
Size: 6552 Rows x 6552 Columns

Image Processing

Interpolation:
A-VR or SSM Interpolation
Tone Processing:
BAR or SAR Method
Formats:
1, 2, 3, 4, 6, 8, 9, 12, 15, 16, 18, 20,
24, 25, 28, 30, 32, 35, 36, 40, 42, 48,
49, 54, 56, 63, 64, 70, 72, 80:1;
Portrait Mixed Formats – 6 types,
Landscape Mixed Formats - 4 types

Film Supply

Standard 1 or 2 Film Drawers
Maximum 3 Film Drawers
Daylight Film Loading

Density Adjustment:
Automatic utilizing bar code reader in
film drawer

CPU

RAM: Standard: 256 MB
Maximum: 512 MB
Hard Disk: 40 GB
Image Spooling to HD (IDE)
OS: Windows XP Embedded

Dimensions and Weight

DryPix 5000:
Width 29"
Depth 27"
Height 49"
Weight 441 lbs

DryPix 5000 with Sorter:
Width 44"
Depth 28"
Height 49"
Weight 580 lbs

Power Supply

DryPix 5000:
100/110/120 VAC +/-10%
60 Hz Single Phase
Capacity: 1.2 kVA
Rated Current 12A
Overload Protection 15A
Max. Power Consumption 1.2 kW
Electric Energy:
Printing: 570Wh
Standby: 320 Wh

Power Saver Mode: 200 Wh
Sleep Mode: 120 Wh
Remote Standby Mode: 20 Wh

Environmental Conditions

Temperature and Humidity:
Operating
*Temperature 59°F to 86°F
*Relative Humidity 15% to 70%
Non-Operating
*Temperature 32°F to 113°F
*Relative Humidity 10% to 90%
(No dew condensation)
Transit / Storage
*Temperature 14°F to 122°F
*Relative Humidity 10% to 90%
(No dew condensation)

Atmospheric Pressure
Operating
*700 to 1060 hPa
Non-Operating, Transit or Storage
*500 to 1060 hPa

Floor (Installation Surface):
Levelness
*<1/100 inclination front to rear and
left to right
Flatness
*<0.4"

Vibration Requirement
*Frequency 10 to 55 Hz
*Amplitude <0.0003"
Magnetic Field
*< DC 100 Gauss

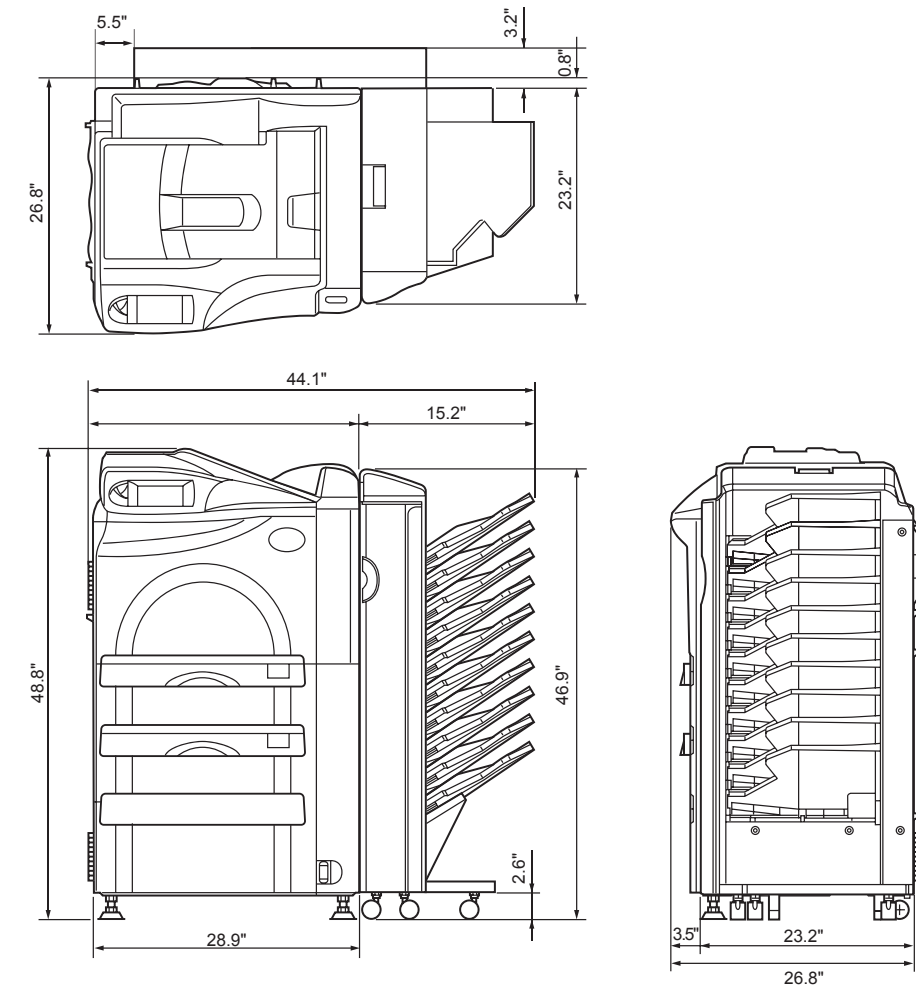
Maximum Heat Generation
DryPix 5000:
*Standby 1,126 BTU/hour
*Printing 1,979 BTU/hour

Noise Level
*Standby ~45 dB
*Operation ~53dB
(Measuring conditions: 1m from
equipment, height 1.5 m)

Warm-up Time
DryPix 5000:
*Ambient temperature 77°F
Approximately 20 minutes
*When in Economy Mode
Ambient temperature 77°F
Approximately 10 minutes
Sorter:
*Approximately 30 seconds

Ventilation Requirements:
Operating (100 Films/Hour)
1907 cubic feet per hour
Standby
1413 cubic feet per hour

DRYPIX 5000 External Dimensions with Sorter



Installation Space

