DynamIx HR²

IP Image Reader	DynamIx HR²
Reading density	25 µm, 50 µm, 100 µm, 200 µm
Reading gray scale	14 bits/pixel
Dimensions (W × D × H)	600 × 660 × 490 mm (24 × 26 × 19 in.)
Weight	58 kg (127 lb)
Power supply	100-240 V AC, 50/60Hz, 400 VA or less
Operation condition	15˚C-30˚C, 15%-80%RH (No dew condensation)
IP tray	Hand-held type
Tools for using special cut IPs	Type S Custom order Type F Custom order

CLASS 1 LASER PRODUCT

DynamIx HR² 50 system

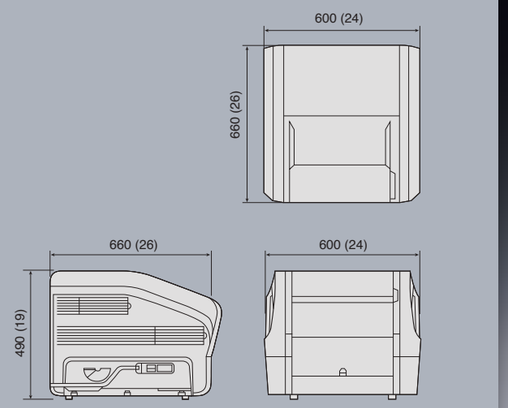
IP Image Reader	DynamIx HR²
Reading density	50 µm, 100 µm, 200 µm
Reading gray scale	14 bits/pixel
Dimensions (W × D × H)	600 × 660 × 490 mm (24 × 26 × 19 in.)
Weight	58 kg (127 lb)
Power supply	100-240 V AC, 50/60Hz, 400 VA or less
Operation condition	15˚C-30˚C, 15%-80%RH (No dew condensation)
IP tray	Hand-held type
Tools for using special cut IPs	Type S Custom order Type F Custom order

DynamIx HR² 50 system does not support 25 µm pitch reading

CLASS 1 LASER PRODUCT

Dimensions

Unit: mm (in.)



Imaging Plate

Fixed-size IP	ST-VI (Type CC Cassette)	35.4 × 43.0 cm (14 × 17 in.) 18 × 24 cm (7.1 × 9.4 in.) 24 × 30 cm (9.4 × 11.8 in.) 15 × 30 cm (5.9 × 11.8 in.)
	UR-1 (Type UR Cassette)	35.4 × 43.0 cm (14 × 17 in.) 18 × 24 cm (7.1 × 9.4 in.)
Strip-form IP	6 × 40 cm (2.4 × 15.7 in.) Note: Consult with our sales representative for other sizes.	
Long IP	7 × 152 cm (2.8 × 59.8 in.) Note: Consult with our sales representative for other sizes.	

Image Viewer/Measurement Software Dynamix VU

Software	**DynamIx VU Console** Acquires images from the image reader and adjusts image quality.	
	DynamIx VU Viewer Enables assessment of image quality and determination of defects by using various measurement tools.	
	DynamIx VU Server Stores data and enables data management.	
Client PC	CPU	Intel® Core™ i7 CPU at 2.6 GHz or greater
	OS	Windows® 7 Professional 64 bit Service Pack 1 English
Server PC	CPU	Intel® Xeon® E3-1225 at 3.10 GHz or greater
	OS	Windows® Server 2008 R2 Service Pack 1 English
Display	Standard viewer: 21.2 inch 3M high resolution color LCD monitor	
	Recommend model	EIZO® Radiforce RX340
	Resolution	1536 × 2048 pixels
	High grade viewer: 21.3 inch 5M high resolution monochrome LCD monitor	
	Recommend model	EIZO® Radiforce GX530
	Resolution	2048 × 2560 pixels

FUJIFILM
Value from Innovation

DynamIx™ HR²

NEW

http://www.fujifilm.com/products/ndt

Windows and Windows 7 are registered trademarks of Microsoft Corporation.
Intel Xeon is a registered trademark of Intel Corporation. All other company, product or service names are trademarks or registered trademarks of their respective holders.

FUJIFILM COMPUTED RADIOGRAPHY
DynamIx™ SYSTEM

FUJIFILM
FUJIFILM Corporation

Ref. No. FXX-IB-DY1001E2 (SK·14·02·F1079·F9711) Printed in Japan ©2012 FUJIFILM Corporation

Quick to detect risks, and friendly to users — devotion to accurate NDT that supports industries

QUALITY IMAGE

The world's top class* high spatial and density resolution and Excellent signal to noise ratio (SNR) produce superb image quality

Fusion of Fujifilm's advanced technologies used in image reader, software and IP realizes images of the finest quality possible expected in digital imaging. *Researched by Fujifilm in November 2012
• DynamIx HR² 50 system does not support 25 µm pitch reading

Unique image processing and wide dynamic range bringing high accuracy to every inspection

Excellent accuracy is the FCR standard with our automatic contrast optimization for each image and wide dynamic range which incorporates the trusted FCR technology.

NEW FEATURES

Ingenious new features to meet versatile needs of the NDT industry

IP insertion by hand

Information in the IPs can be read with no need of using a hard cassette.

The Special Cut IP System offering IPs tailored to test objects

Various IP shapes are available thanks to special tools developed to read special size and shape IPs making it possible to inspect objects of any shape with high accuracy.

DynamIx VU Thickness measurement— the automatic measurement tool making corrosion tests easier

The pipe wall thickness is automatically measured based on Fujifilm's precise image analysis technology to make an inspection more efficient and stable.

Computerized contrast/density normalization according to the ASTM standard

Automatically adjusts contrast and density of an image to allow defect comparison between production images and ASTM Digital Reference Radiographs.

Long IPs enabling efficient exposure of welded pipe joints

Reads up to 152 cm long IPs allowing efficient inspection of larger objects.

DICONDE compliant

Image Viewer/Measurement Software

DynamIx™ VU

IP Image Reader

DynamIx™ HR²

EFFICIENT OPERATION

Density parameter presets for more efficient image adjustment

The user can customize and preset the automatic density adjustment parameter (Exposure Data Recognizer: EDR) suitable for the test object. Easy density adjustment is possible with just one-click.

Quick data search with preset conditions

Presets of frequently used search conditions can be created enabling one-click data retrieval.

More reliable assessment and greater traceability

Assessment of images is automated to reduce human labor and errors. The assessment history is recorded to enhance traceability.

One click between modes

Processes from image reading to inspection can be conducted on one PC with smooth transition between image reading and inspection windows.

USER FRIENDLINESS

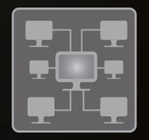
Simple work status management and data search with the entire test procedure visualized

The entire test process is managed on one main screen.
The data tree structure and work status are shown at a glance.

Easy to view images displayed on the ergonomic monitor

Features assisting inspectors such as larger icons with customizable tool bars, masking and viewer friendly displays make inspection easier.

NETWORK & SECURITY



Flexible network configuration and communication to create an optimum workflow environment

Centralized management of inspection data at multiple sites on a centralized server accessible via Intranet or Major ERP Applications.

Strengthened security with user authority control

User access rights to individual functions can be controlled. With user rights management, user functions are limited by authority and workspace is increased by the removal of unauthorized tools.

Innovative digital platform for universal Radiographic Testing

FUJIFILM DIGITAL RADIOGRAPHY

DynamIx™ SYSTEM

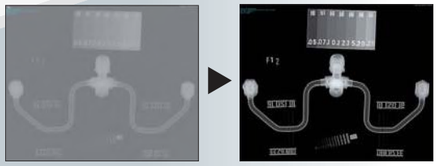
The FUJIFILM DynamIx Series of digital testing equipment now includes robust DDA capabilities.
DynamIx HR², powered by FUJIFILM high quality Imaging Plates and unique image processing technology, can be used in conjunction with DynamIx FXR to provide fast, efficient and flexible inspection options to support all Radiographic Testing applications.

Image Viewer/Measurement Software

DynamIx™ VU

New DynamIx VU image viewing software incorporates the highest level of image processing technology. It is designed to meet all Industry Standards on one common platform to support both CR and DDA modalities.
The tools, functionality and workflow of DynamIx VU is consistent throughout, and customers can use DDA seamlessly, without additional software training or workflow change.

Automatic optimization of image quality according to the object and free presetting of parameters available



Original (EDR OFF) **EDR ON**

Computed Radiography

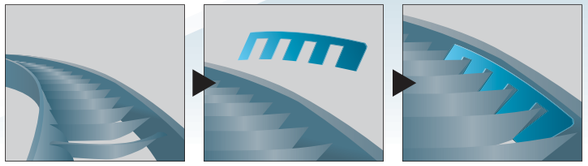
DynamIx™ HR²

The DynamIx HR² System provides a wide range of selectable scanning settings from 100µm down to 25µm. Coupled with high spatial resolution and excellent signal to noise ratio (SNR) the HR² system provides superb image quality with a wide dynamic range. Both standard Imaging Plates as well as customized special cut sizes can be provided to allow inspection of virtually any shape with a high degree of accuracy and ease of use.

25µm, 50µm, 100µm reading pitch

Special Cut Imaging Plate

Special Cut Imaging Plate Examples



FUJIFILM can design and supply customized shapes and sizes of Imaging Plates based on the inspection needs of each customer.

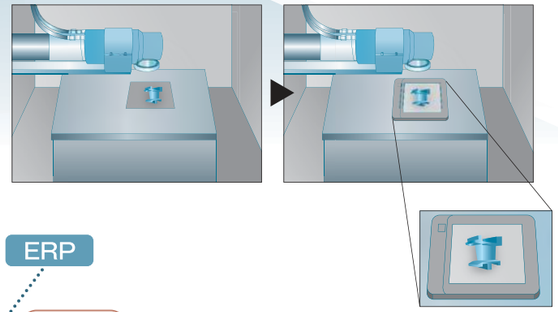
Digital Detector Array

DynamIx™ FXR

The DynamIx FXR System provides 100µm pixel pitch capable of energy levels up to 15 MeV and the large active area of 16" x 16". It improves productivity significantly for high volume inspections with exceptional image quality powered by FUJIFILM image processing technology.

16x16 inch | 100µm pixel pitch

Easy to install in an existing radiography cabinet or walk-in exposure room.



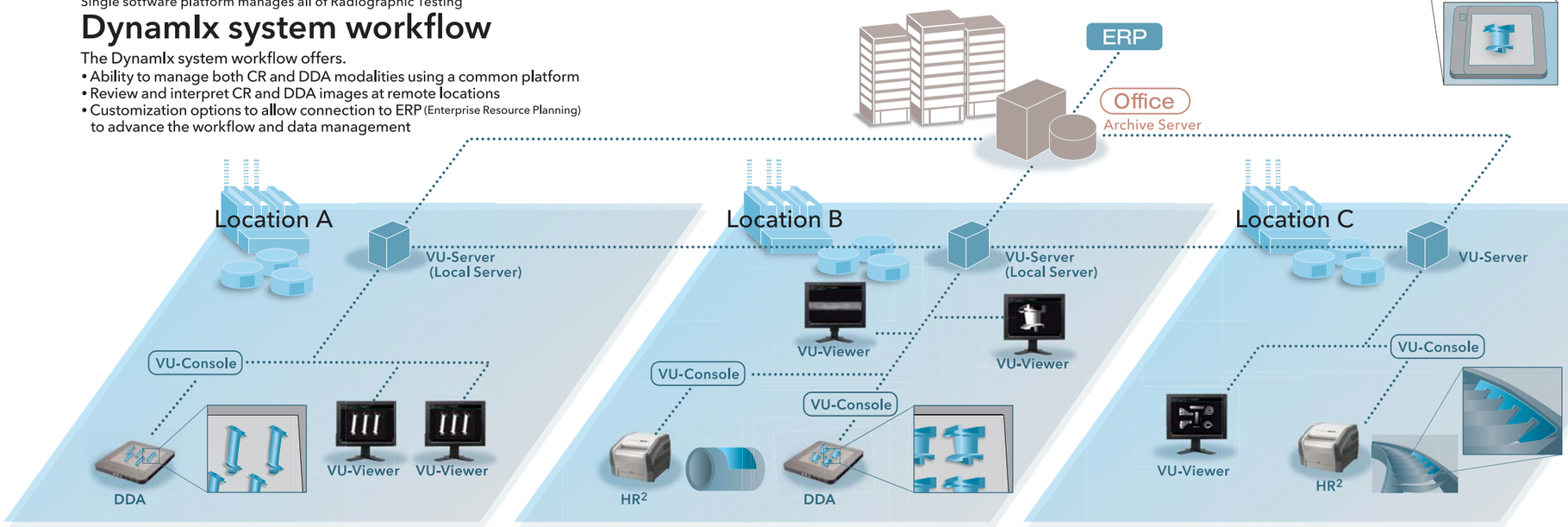
Suggested Usage

	DynamIx HR²	DynamIx FXR
Main feature	• 25µm reading pitch • Special Cut Imaging Plate	• 100µm pixel pitch • 16x16 inch active area
Application	• Alternative to high resolution film • Complex shape inspection Alternative to cut, bent, and inserted film	• Alternative to high speed film • Alternative to mass inspection by putting many objects on the large size film

Single sotfware platform manages all of Radiographic Testing

DynamIx system workflow

The DynamIx system workflow offers.
- Ability to manage both CR and DDA modalities using a common platform
- Review and interpret CR and DDA images at remote locations
- Customization options to allow connection to ERP (Enterprise Resource Planning) to advance the workflow and data management



Innovative digital platform for universal Radiographic Testing

FUJIFILM DIGITAL RADIOGRAPHY

DynamIx™ SYSTEM

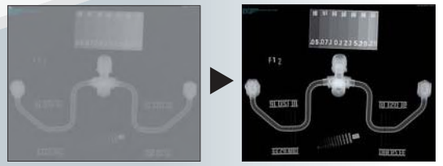
The FUJIFILM DynamIx Series of digital testing equipment now includes robust DDA capabilities.
DynamIx HR^2, powered by FUJIFILM high quality Imaging Plates and unique image processing technology, can be used in conjunction with DynamIx FXR to provide fast, efficient and flexible inspection options to support all Radiographic Testing applications.

Image Viewer/Measurement Software

DynamIx™ VU

New DynamIx VU image viewing software incorporates the highest level of image processing technology. It is designed to meet all Industry Standards on one common platform to support both CR and DDA modalities.
The tools, functionality and workflow of DynamIx VU is consistent throughout, and customers can use DDA seamlessly, without additional software training or workflow change.

Automatic optimization of image quality according to the object and free presetting of parameters available



Original (EDR OFF) **EDR ON**

Computed Radiography

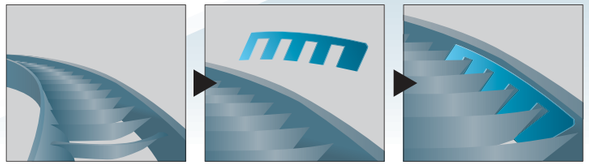
DynamIx™ HR^2

The DynamIx HR^2 System provides a wide range of selectable scanning settings from 100µm down to 25µm. Coupled with high spatial resolution and excellent signal to noise ratio (SNR) the HR^2 system provides superb image quality with a wide dynamic range. Both standard Imaging Plates as well as customized special cut sizes can be provided to allow inspection of virtually any shape with a high degree of accuracy and ease of use.

25µm, 50µm, 100µm reading pitch

Special Cut Imaging Plate

Special Cut Imaging Plate Examples



FUJIFILM can design and supply customized shapes and sizes of Imaging Plates based on the inspection needs of each customer.

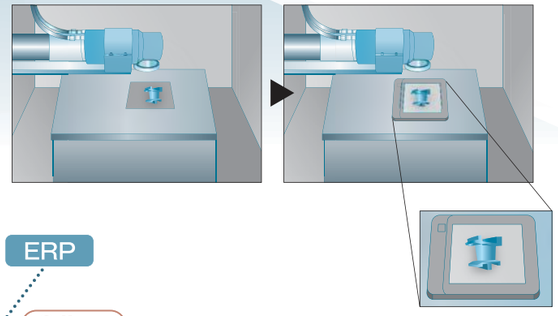
Digital Detector Array

DynamIx™ FXR

The DynamIx FXR System provides 100µm pixel pitch capable of energy levels up to 15 MeV and the large active area of 16" x 16". It improves productivity significantly for high volume inspections with exceptional image quality powered by FUJIFILM image processing technology.

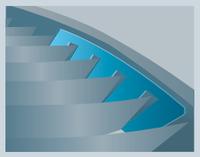
16x16 inch | 100µm pixel pitch

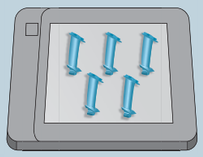
Easy to install in an existing radiography cabinet or walk-in exposure room.



Suggested Usage

	DynamIx HR^2	DynamIx FXR
Main feature	• 25µm reading pitch • Special Cut Imaging Plate	• 100µm pixel pitch • 16x16 inch active area
Application	• Alternative to high resolution film • Complex shape inspection Alternative to cut, bent, and inserted film	• Alternative to high speed film • Alternative to mass inspection by putting many objects on the large size film

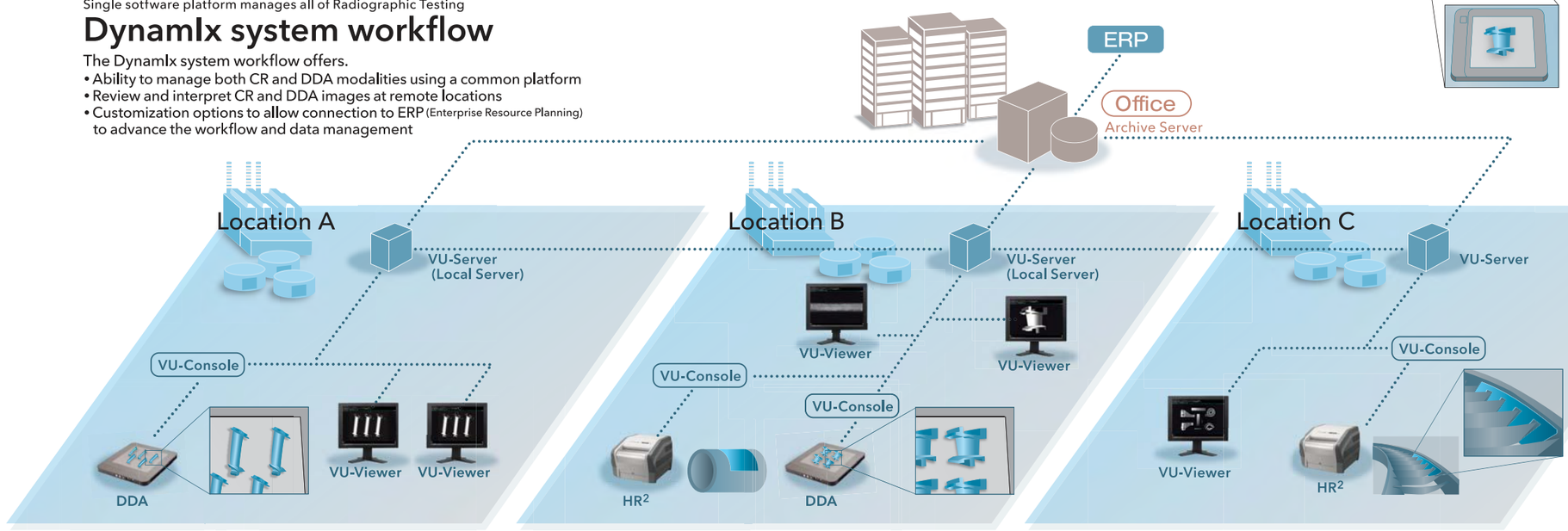




Single sotfware platform manages all of Radiographic Testing

DynamIx system workflow

The DynamIx system workflow offers.
- Ability to manage both CR and DDA modalities using a common platform
- Review and interpret CR and DDA images at remote locations
- Customization options to allow connection to ERP (Enterprise Resource Planning) to advance the workflow and data management



Single software platform manages all of Radiographic Testing

DynamIx system workflow

The DynamIx system workflow offers.

- Ability to manage both CR and DDA using a common platform
- Review and interpret CR and DDA images at remote locations
- Customization options to allow connection to ERP (Enterprise Resource Planning) to advance the workflow and data management

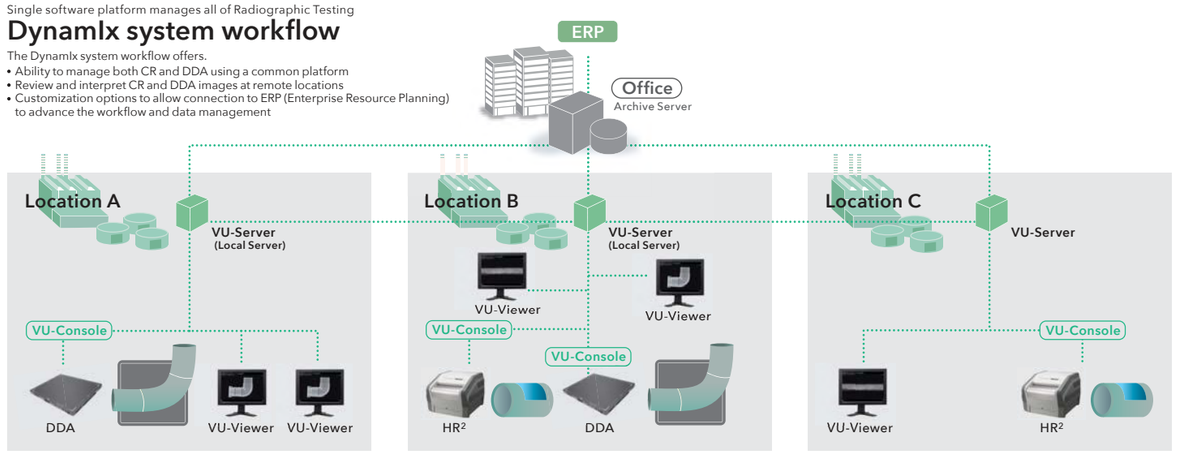


Image Viewer/Measurement Software

DYNAMIX™ VU

Software	DynamIx VU Console Acquires images from the image reader and adjusts image quality.	
	DynamIx VU Viewer Enables assessment of image quality and determination of defects by using various measurement tools.	
	DynamIx VU Server Stores data and enables data management.	
Client PC	CPU	Intel® Core™ i7 CPU at 2.6 GHz or greater
	OS	Windows® 10 Pro 64bit
Server PC	CPU	Intel® Xeon® E3-1225 at 3.10 GHz or greater
	OS	Microsoft® Windows Server® 2012 R2
Display	Standard viewer: 21.2 inch 3M high resolution color LCD monitor	
	Recommend model	EIZO® Radiforce RX340
	Resolution	1536×2048 pixels
	High grade viewer: 21.3 inch 5M high resolution monochrome LCD monitor	
	Recommend model	EIZO® Radiforce GX540
	Resolution	2048×2560 pixels

Digital Detector Array

DYNAMIX™ FXR Pad

Product code	3025	4336
Panel Material	Amorphous silicon	Amorphous silicon
Scintillator	CsI	CsI
Active area	248.0 mm × 297.6 mm	350 mm × 426 mm
Pixel matrix	2508 × 3004	3524 × 4288
Pixel pitch	100μm	100μm
Frame rate	Wired connection: 3 fps (300 ms) Wireless connection: 0.5 fps (2000 ms)	Wired connection: 2 fps (500 ms) Wireless connection: 0.3 fps (3000 ms)
ADC	16bit	16bit
Wired I/F	GigE, trigger and power via docking connector	GigE, trigger and power via docking connector
Wireless I/F	802.11n Wi-Fi standard at 5 GHz	802.11n Wi-Fi standard at 5 GHz
Size	282 mm× 332 mm × 15.5 mm	384 mm× 460 mm× 15.5 mm
Weight	1.8kg	3.1kg
Recommend operating temperature	10°C～35°C	10°C～35°C
Humidity	20% to 80% operating	20% to 80% operating
Ingress Protection	IPX4 rated (protection against splashing water)	IPX4 rated (protection against splashing water)
Battery	Rechargeable battery, 11.1 V	Rechargeable battery, 11.1 V
Battery Charger	External two bay charger 100 - 240 V AC, 50/60 Hz	External two bay charger 100 - 240 V AC, 50/60 Hz
Interface and Power Unit	Optional IPU-2 external power supply 100 – 240 V AC 50/60 Hz GigE and X-ray I/F	Optional IPU-2 external power supply 100 – 240 V AC 50/60 Hz GigE and X-ray I/F
Panel Cover	Under development	Under development

http://www.fujifilm.com/products/ndt

Windows, Windows 7 and Windows 10 are registered trademarks of Microsoft Corporation.
Intel Xeon is a registered trademark of Intel Corporation. All other company, product or service names are trademarks or registered trademarks of their respective holders.

FUJIFILM
FUJIFILM Corporation

Ref.No.xxxxxxxxxx (18.6.FFBX)

FUJIFILM
Value from Innovation

Portable and Easy to Use

New generation of portable DDA detectors with wireless option designed for field RT applications

3025 4336

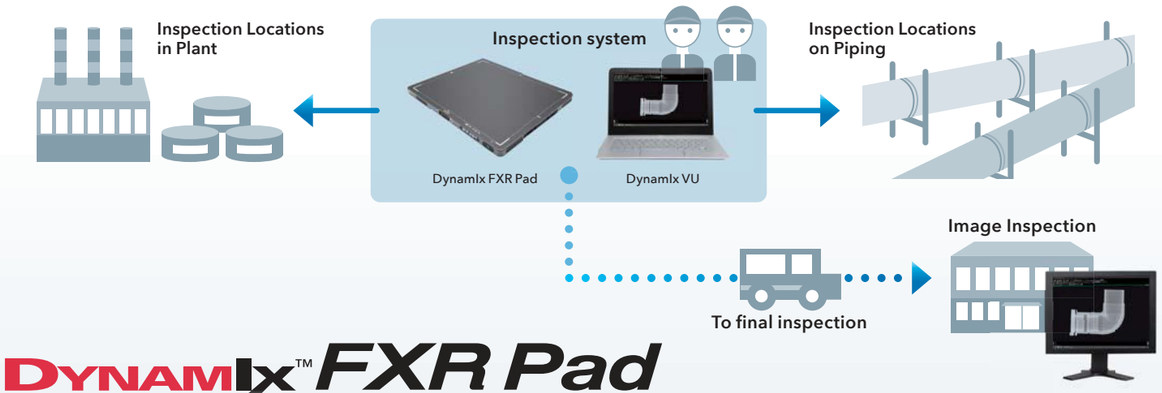
Digital Detector Array

DYNAMIX™ FXR Pad

DynamIx™

FIELD WORK

The DynamIx FXR Pad detectors are capable of real-time imaging in field work applications. Immediate on-site image evaluation greatly improves inspection efficiency!



DynamIx™ FXR Pad

Capable of real-time imaging at any location with light weight and water resistance features.

Portable and Easy to Use

DynamIx FXR Pad, a portable light-weight detector, newly joined high resolution DDA system of FUJIFILM FXR family.
The robust and high water resistance feature enables inspection at any location.

Weight
1.8kg(3025) */ 3.1kg*(4336)
Easy to carry and operate by operator.

Load Tolerance *Distributed evenly over the detector
150kg/100kg

Pixel size
100μm

Water Tolerance
IPX4
Operates in rain or with other water splashing action from any direction.

Connection
Wireless & Wired

INSPECTION

The DynamIx VU software maximizes accurate inspections and measurements powered by FUJIFILM image processing and analysis technologies.

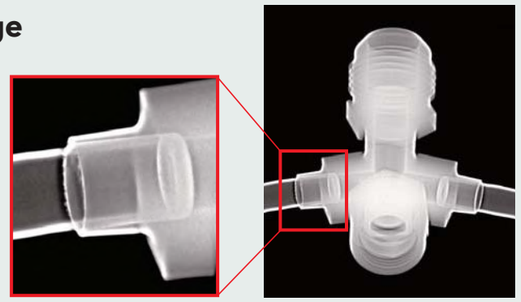
• High Image Quality & Wide Dynamic Range

• Unique image processing

Exposure Data Recognizer (EDR) optimizes image quality automatically based on preset geometry grids available. FUJIFILM Imaging Processing (FIP) filters can adjust various image parameters on the displayed image and can be incorporated into user menu that will apply the values at the end of the initial scan saving time and delivering an image ready for interpretation.

• Wide dynamic range

Allows single exposures of parts with various thickness ranges.



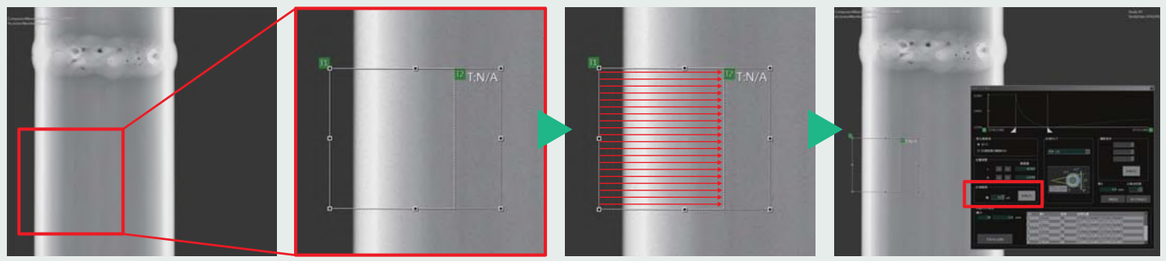
• VU Wall Thickness

Fujifilm "batch measurement" wall thickness tool enables fast and accurate measurements combining multiple sample points allowing quick assessment of the minimum wall thickness over a wide area of the image.

STEP 1
Select the area to measure wall thickness.

STEP 2
Selected area of up to 20 points provides simultaneous measurement.

STEP 3
The minimum thickness can be recorded from the area measured.



• VU Report

- Input information including exposure conditions, imaging parameters and multiple inspection results on detector console and viewer (workstation) will transfer and automatically populate the VU report.
- A report is created in Microsoft Word enabling user to customize content and file format.

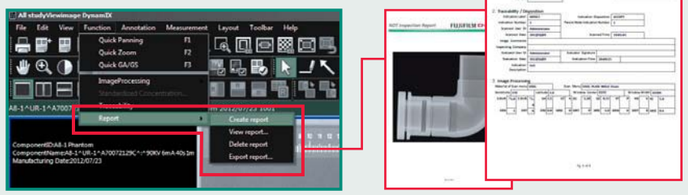


Image Viewer/Measurement Software

DynamIx™ VU

Software	DynamIx VU Console Acquires images from the image reader and adjusts image quality.	
	DynamIx VU Viewer Enables assessment of image quality and determination of defects by using various measurement tools.	
	DynamIx VU Server Stores data and enables data management.	
Client PC	CPU	Intel® Core™ i7 CPU at 2.6 GHz or greater
	OS	Windows® 7 Professional 64 bit Service Pack 1 English Windows® 10 Professional 64 bit Service Pack 1 English
Server PC	CPU	Intel® Xeon® E3-1225 at 3.10 GHz or greater
	OS	Windows® Server 2008 R2 Service Pack 1 English
Display	Standard viewer: 21.2 inch 3M high resolution color LCD monitor	
	Recommend model	EIZO® Radiforce RX340
	Resolution	1536×2048 pixels
	High grade viewer: 21.3 inch 5M high resolution monochrome LCD monitor	
	Recommend model	EIZO® Radiforce GX540
	Resolution	2048×2560 pixels

Computed Radiography

DynamIx™ HR²

IP Image Reader	DynamIx HR²
Reading pitch	25μm, 50μm, 100μm
Reading gray scale	14 bits/pixel
Dimensions (W×D×H)	600×660×490 mm (24×26×19 in.)
Weight	58 kg (127 lb)
Power supply	100-240 V AC, 50/60Hz, 400 VA or less
Operation condition	15˚C-30˚C, 15%-80%RH (No dew condensation)
IP tray	Hand-held type
Tools for using special cut IPs	Type S Custom order Type F Custom order

CLASS 1LASER PRODUCT

Digital Detector Array

DynamIx™ FXR

Product code	D-1611
Panel	amorphous silicon
Scintillator	Gd_2O_2S:Tb
Active area	409.6mm×409.6mm
Pixel matrix	4096×4096
Pixel pitch	100μm pixel pitch
Frame rate	3.75FPS
Energy duration	40KeV - 15MeV
Dynamic range	>84 dB
ADC	16bit
Data Interface	Fiber-optical interface
Size	672mm×599mm×44mm
Weight	25kg
Operating temperature	10℃~35℃
Storage temperature	-10℃~50℃
Humidity	30%~70%(RH),Non-condensing
Power supply	EPS power supply 215W
Dissipation	90W

http://www.fujifilm.com/products/ndt

Windows, Windows 7 and Windows 10 are registered trademarks of Microsoft Corporation.
Intel Xeon is a registered trademark of Intel Corporation. All other company, product or service names are trademarks or registered trademarks of their respective holders.

FUJIFILM
FUJIFILM Corporation

Ref.No.Fxx-IB-DY1008E (16.10.FFBX)

FUJIFILM
Value from Innovation

DynamIx™ VU

DynamIx™ HR²

NEW

DynamIx™ FXR

FUJIFILM DIGITAL RADIOGRAPHY

DynamIx™ SYSTEM

DynamIx VU / DynamIx HR² / DynamIx FXR