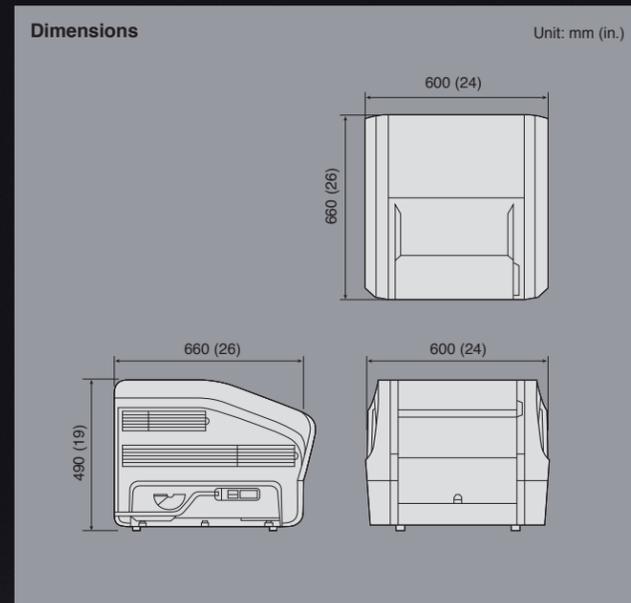


■ Dynamix HR²

IP Image Reader	Dynamix HR ²
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



■ 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

DYNAMIX™ HR²

NEW



FUJIFILM North America Corporation,
200 Summit Lake Drive
Valhalla, NY 10595

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

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FUJIFILM COMPUTED RADIOGRAPHY

DYNAMIX™ SYSTEM

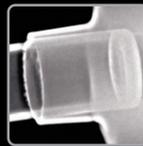
Quick to detect risks, and friendly to users — devotion to accurate NDT that supports industries

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



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.

Image Viewer/Measurement Software

DYNAMIX™ VU

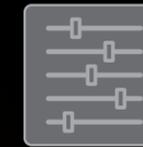
DICONDE compliant



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

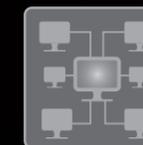
The entire test process is managed on one main screen. The data tree structure and work status are shown at a glance.



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

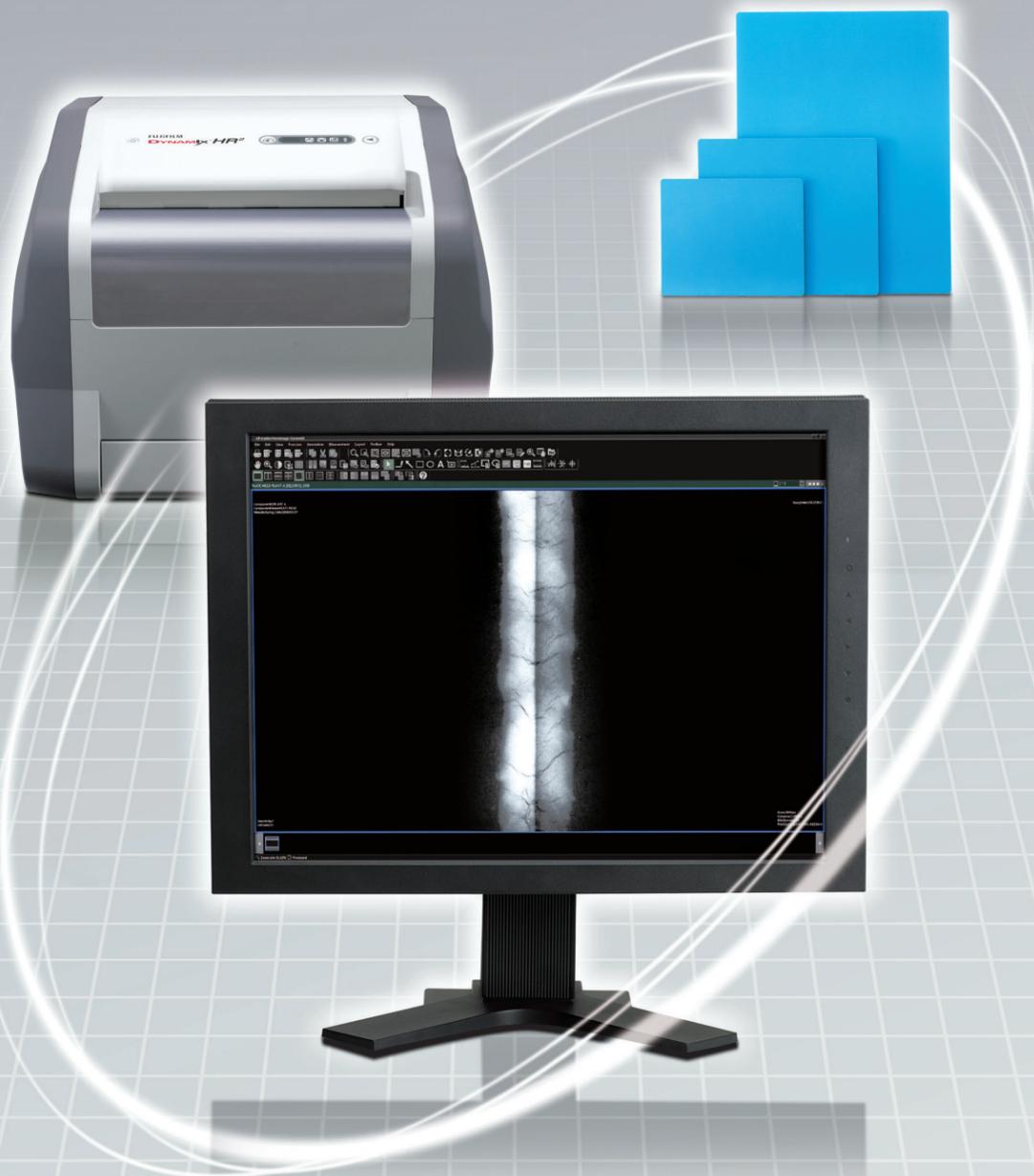
User access rights to individual functions can be controlled. With user rights management, user functions are limited by authority and workspace is increased by the removal of unauthorized tools.



Promising keys for outstanding image quality — world's top class* high spatial and density resolution and Excellent signal to noise ratio (SNR)

Integrated Fujifilm's advanced technologies used in the image reader, software and IP offer superb quality images

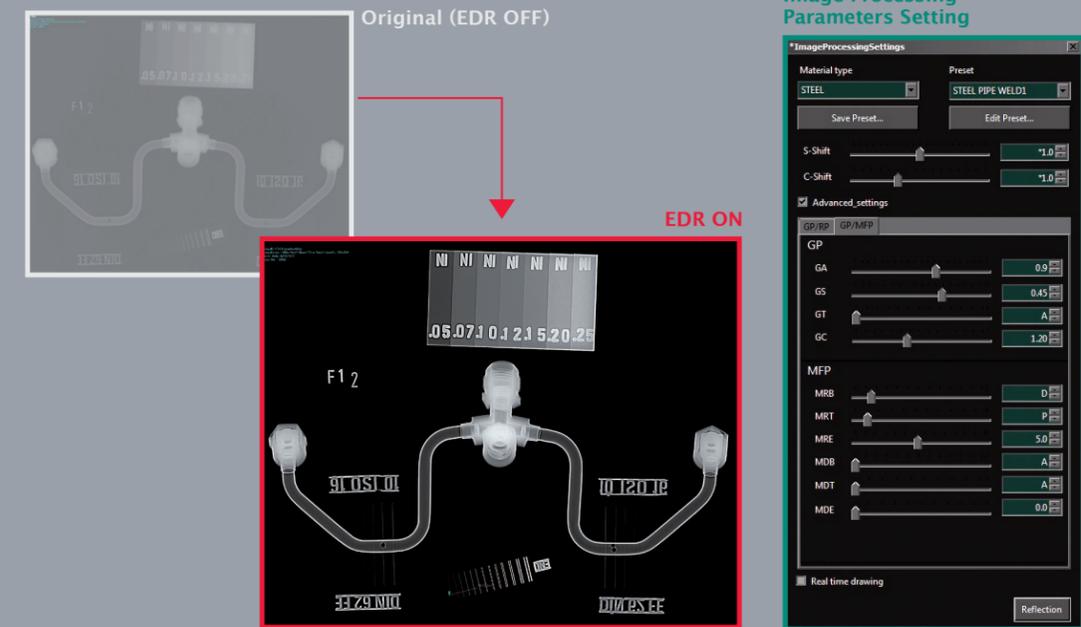
High resolution reading at a 25 μm pitch, unique image processing and highly capable IP — fusion of the best of Fujifilm's technologies realizes images of the finest quality possible expected in digital imaging. *Researched by Fujifilm in November 2012



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

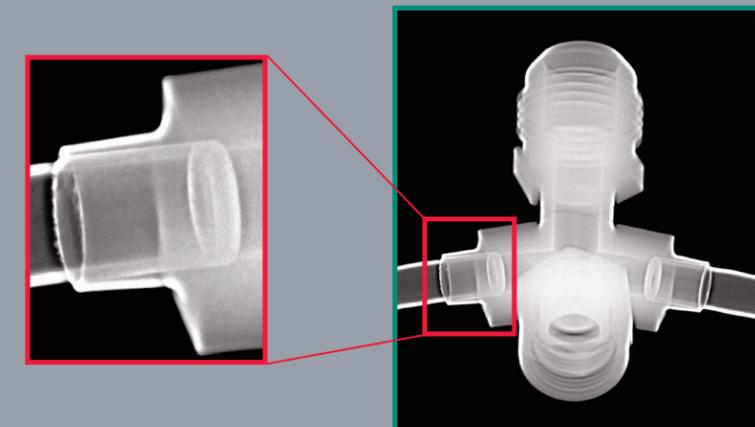
Automatic optimization of image quality according to the object and free presetting of parameters available

Since the introduction of the world's first digital diagnostic X-ray imaging system FCR in 1983, Fujifilm has developed imaging processing technologies suitable for objects which have undergone NDT. For Dynamix VU, we have adopted Exposure Data Recognizer (EDR) to automatically adjust the density and our proprietary image processing technology Fuji Image Processing (FIP). With these technologies, it is possible to provide optimized images of any test object. Moreover, users can customize parameter presets for image processing. Anyone can easily perform image adjustment suitable for the test object.



The wide dynamic range, ensuring clear depiction of an object of varying thickness

Dynamix inherits the FCR technology of Fujifilm which has been on the frontier of film and digital image resolution technologies. With the wide dynamic range of four or more orders of magnitude, every part of an object—either thick part or thin part—is clearly expressed, free from blown out highlights, blocked up shadows or unevenness.





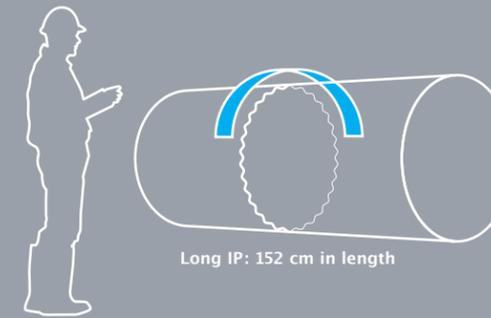
Dynamix VU Thickness*¹ measurement — the automatic measurement tool makes corrosion tests easier

Focusing on the region of interest and automatically measuring the pipe wall thickness, Dynamix VU Thickness realizes more efficient and stable inspection

Different from conventional measurement based on the human eye, Fujifilm's precise image analysis technology automatically detects the inner and outer edges of pipe wall and measures the wall thickness.*² Easy but accurate corrosion tests are performed reducing the need for difficult manual measurements. *¹ Available as an option. *² The measurement method conforms to HOIS (09) RP1.

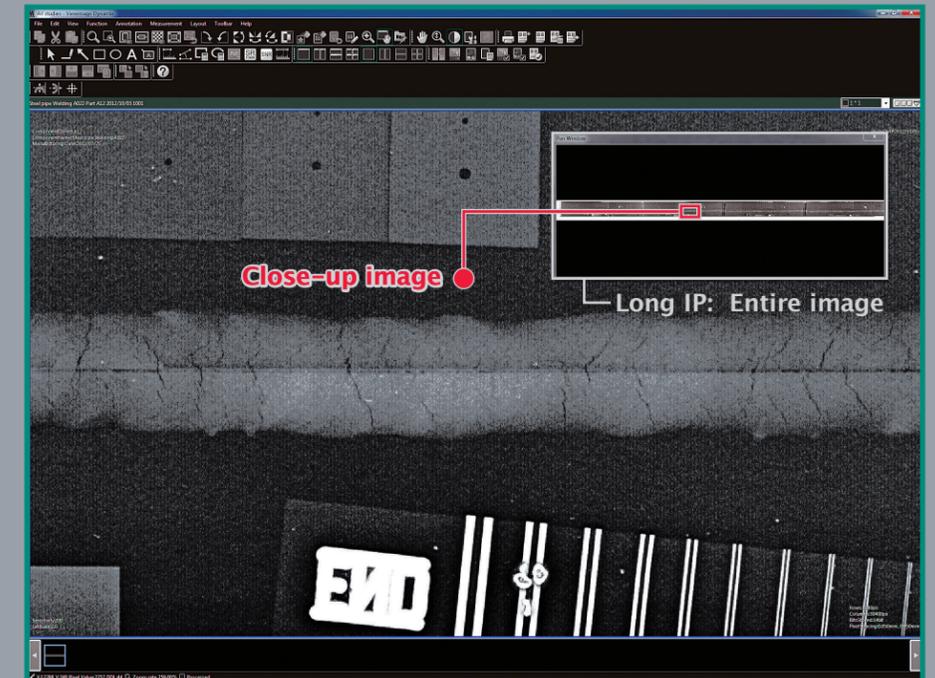
The pipe wall thickness is measured automatically.

Long IPs enabling efficient exposure of welded pipe joints



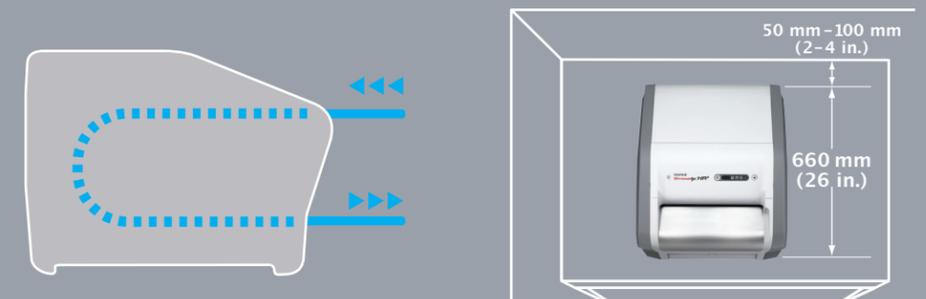
Special inspection screen for images read from long IPs

Efficient examination of welded pipe joints can be conducted in a small number of exposures. Reading of images on IPs of up to 152 cm long reduces the number of exposures needed for large jobs.



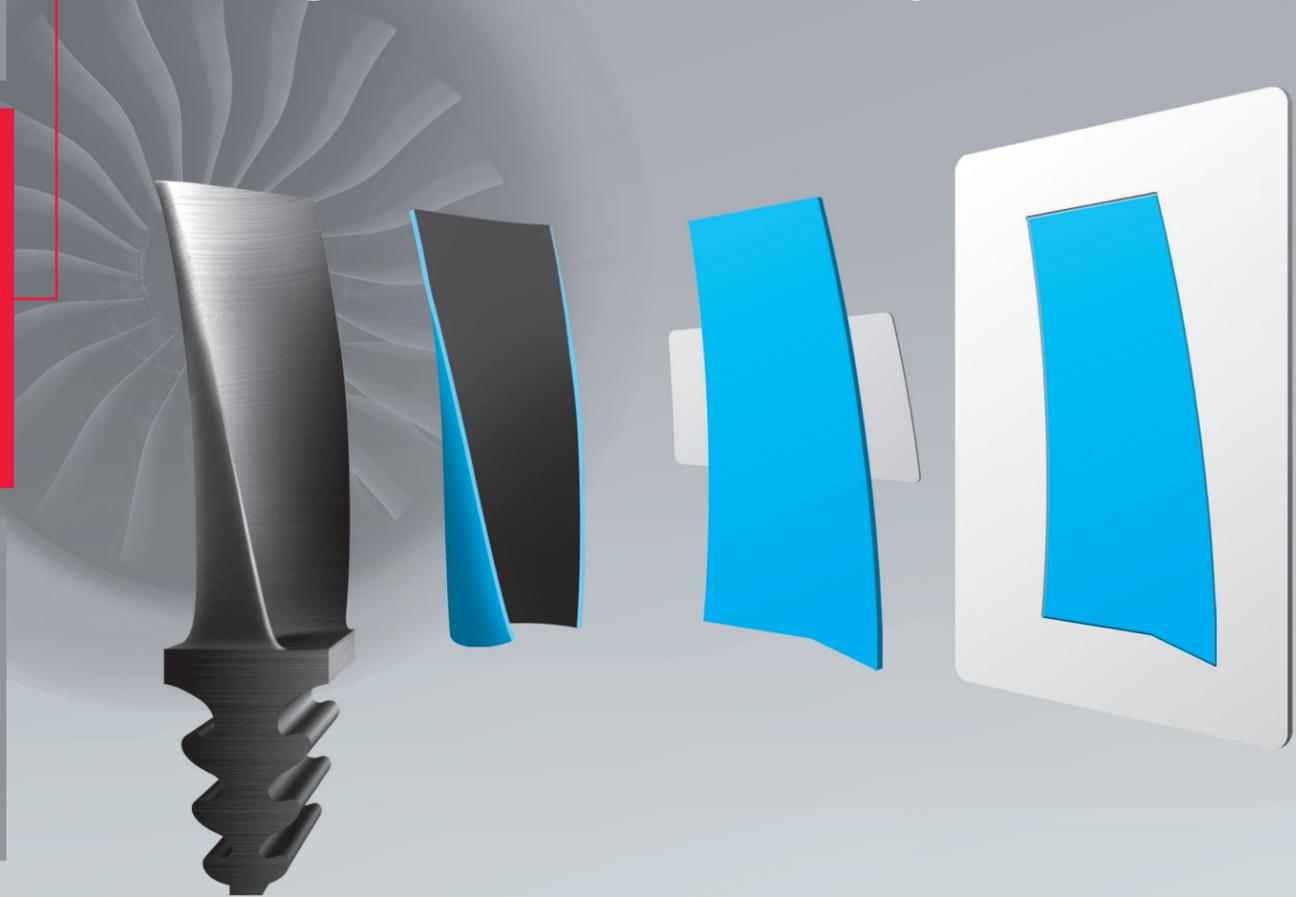
Dynamix HR² allows a small workspace by keeping the IP insertion/ejection in the front of the image reader

The image reader receives an IP and ejects it from the front. This unique design makes it possible to read IPs of up to 152 cm long in a narrow space. A sequence of operations can be carried out in the same place with just a few actions.





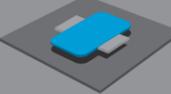
The Special Cut IP System* offering IPs tailored to test objects



New special tools for using IPs of various shapes, available in three types

Dynamix Special Cut IP System provides an IP optimally shaped for an inspection object. To utilize IPs of various shapes, special tools have been developed dramatically reducing limitations*. Now a variety of objects can be inspected at high accuracy.

*Available upon request. Contact us for custom sizes and shapes.

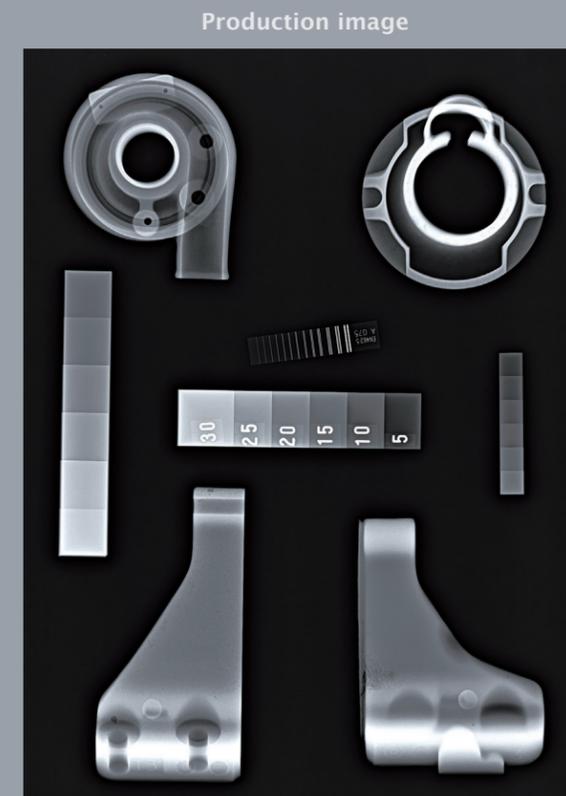
IP Type	Tool	How to Use the Tool	Available Model
S type 		Insert strip-form IPs into the slits.	Dynamix HR ² Dynamix HR
F type 		Fit a fin-attached IP into the molded portion.	Dynamix HR ² Dynamix HR
Hand-held type 		Set an IP on the holder and insert it by hand into the image reader.	Dynamix HR ²

Computerized contrast normalization according to the ASTM*¹ standard

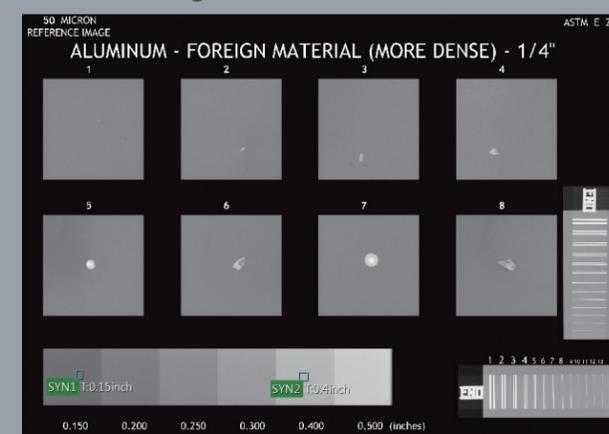
Easily standardize inspection using ASTM digital reference radiographs and Dynamix VU software

Dynamix VU Contrast Normalization*² automatically adjusts the contrast of the reference image*³ specified by ASTM to conform to the one of the target image.

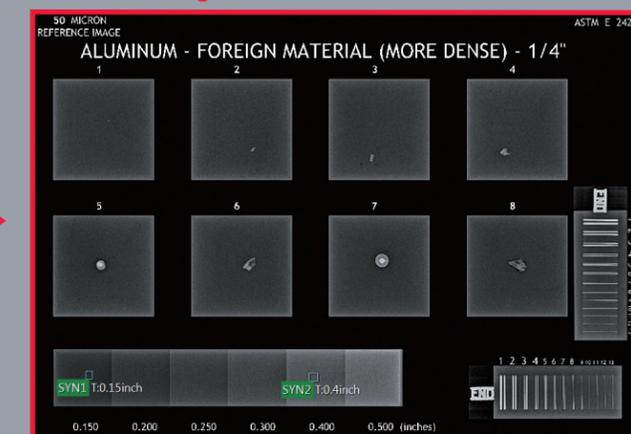
*¹ American Society for Testing and Materials International, a standardization organization. *² Available as an option. *³ Steel, aluminum and titanium, as of August 2012



Reference image Before



Reference image After





One click between modes

Reading and inspection possible on one computer

The software enables reading and inspection to be conducted on a computer, with quick switching between the screens. Access to the image database is also smooth, so that an image appears on the inspection screen instantly after it is read. This feature enhances the work efficiency in each process.

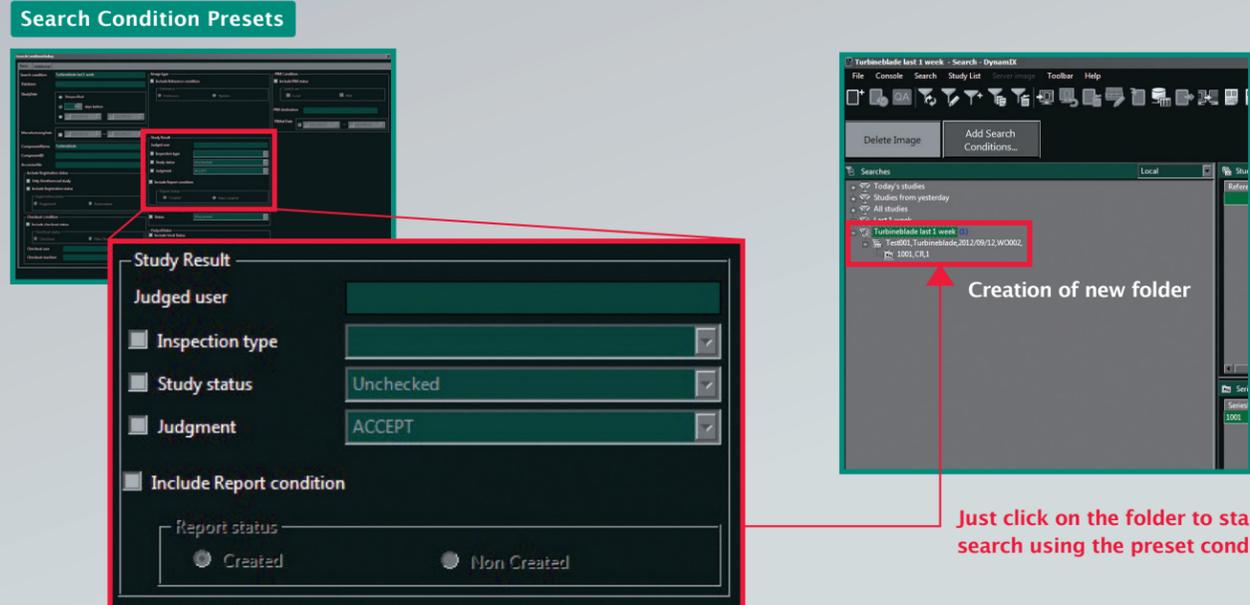
The density parameter presets for more efficient image adjustment

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 preset conditions

Frequently-used search conditions can be preset, enabling one-click data retrieval with no need to input search conditions every time.



More reliable assessment and greater traceability

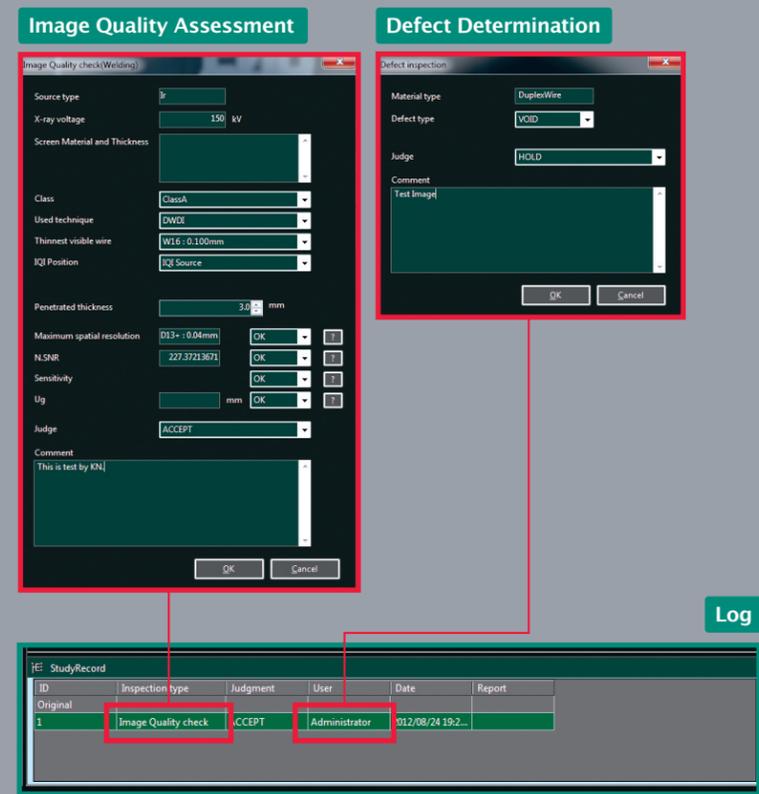
Minimized human labor for image quality assessment. Easy input of defect determination results on the special screen

Dynamix VU newly offers Dynamix VU Judge[®] the automatic image quality assessment. This program calculates the image quality index based on the measured normalized signal-to-noise ratio (NSNR) of an image, and assesses if the index conforms to a standard image quality assessment index. This saves the need of measurement and calculation by humans. In addition to ISO standards, industry-specific standards are supported as the assessment criteria. The screen to input defect determination results is offered. The results can be recorded on the system.

[®] Available as an option.

Automatic recording of all assessments for greater reliability

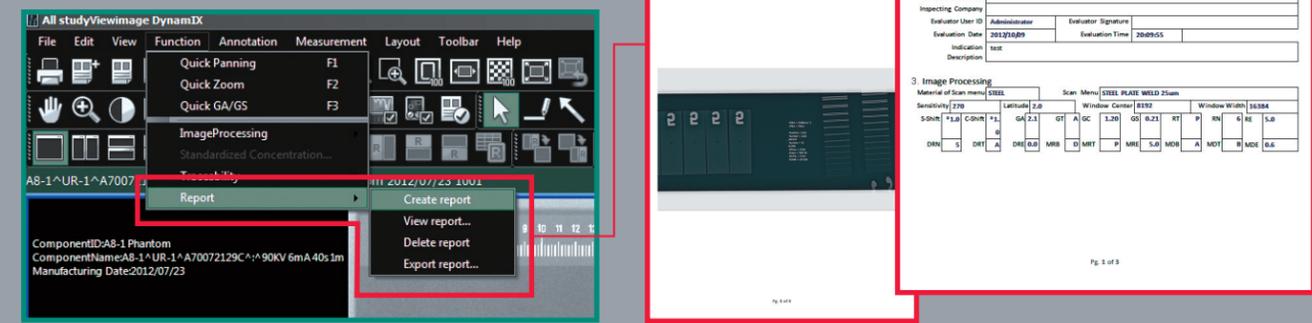
Each assessment is recorded according to who, when and what, contributing to the enhanced traceability.



Specified-format report creation with a little data input

With Dynamix VU Report[®], reports in the specified formats are prepared automatically at the end of an NDT only by inputting test data such as the exposure conditions, results of image quality assessment and of defect determination on the relevant screens. As a report is created in Microsoft[®] Word[®], it is readily used on other Microsoft[®] software. The report format or the file format is customizable.

[®] Available as an option.





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

The data structure, data content and progress of each process at a glance

Icons are large, clearly representing the functions.

Displays the data tree structure in the right pane when the retrieved item is selected in the left pane.

Shows the progress status such as that the data is waiting for reading and has undergone the inspection.

Displays thumbnails to see the file content without opening.

Referenced	Study Lock	Component Name	ComponentID	ManufacturingDate	StudyDate	AccessionNo	StudyStatus	Registration date
test0		test0	test0	2012/10/09	2012/10/09 14:11:05		Unchecked	
test1		test1	test1	2012/10/09 18:12:11	test1		Unchecked	
test2		test2	test2	2012/10/09 18:21:03	test2		Unchecked	
test3		test3	test3	2012/10/09 18:34:51	test3		Unchecked	
test4		test4	test4	2012/10/09 19:15:08	test4		Unchecked	
test5		test5	test5	2012/10/09 14:10:09	test5		Unchecked	

ID	Inspection type	Judgment	User	Date	Report
Original					
1	Image Quality che...	ACCEPT	Administrator	2012/10/09 20:...	
2	Defect inspection	ACCEPT	Administrator	2012/10/09 20:...	

Easy to view images displayed on the ergonomic monitor

Interfaces focusing on easy viewing and user convenience

Grouped by the function, and can be moved, shown or hidden per group.

Icons only necessary for the user are displayed. Which icons appear depends on the logged in user's access rights.

The black and gray-based screens, including image display screen, are not glaring even in a dark room, relieving stress on your eyes while offering a clear view to find defects.

The masking function that blackens unnecessary areas for inspection is available. It helps focus on certain areas around minute defects or areas of low contrast and hard to see.

Masking OFF

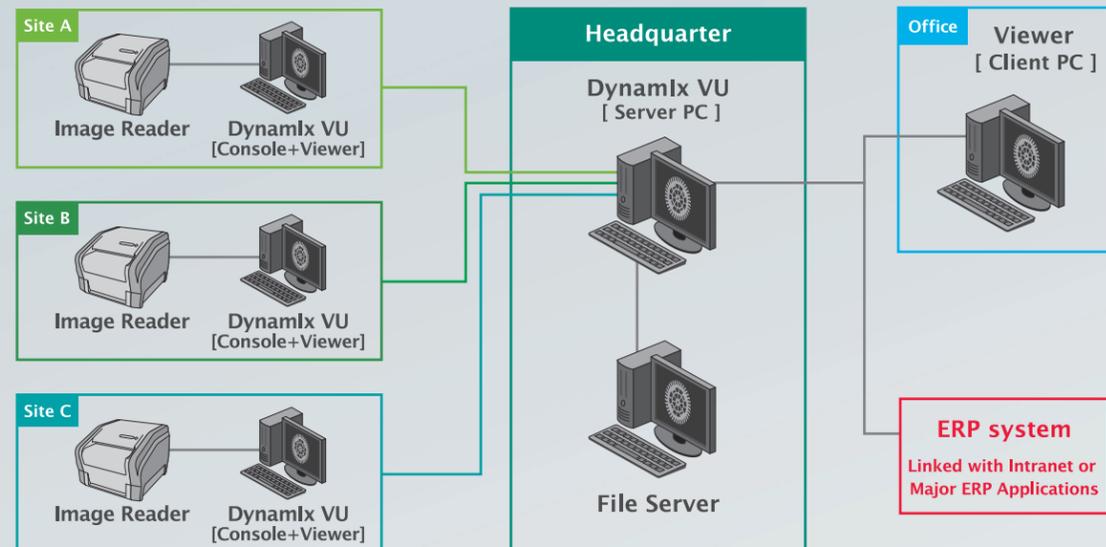
Masking ON

Flexible network configuration and communication to create an optimum workflow environment



Flexible network configuration and link with other systems to build the optimum workflow in a user environment

The Dynamix system is customizable according to the existing network environment. By managing the inspection image data at multiple sites on a central server, an inspector can access the data anywhere via the network to assess the image. Linked with Intranet or Major ERP Applications, it is possible to send a test request made on an ERP package to each test site, or receive a test report vice versa. Thus, an efficient workflow improving the NDT process is established.



Strengthened security with user authority control

Controlled user access to functions by the administrator

A user's access right to each function can be assigned by the administrator to limit viewing or editing of data to the minimum necessary and strengthen the security. With this function enabled, the system shows only the functions pertinent to the user, offering simple and easy-to-use screen interface.

Only accessible functions for the user appear on the screen.

