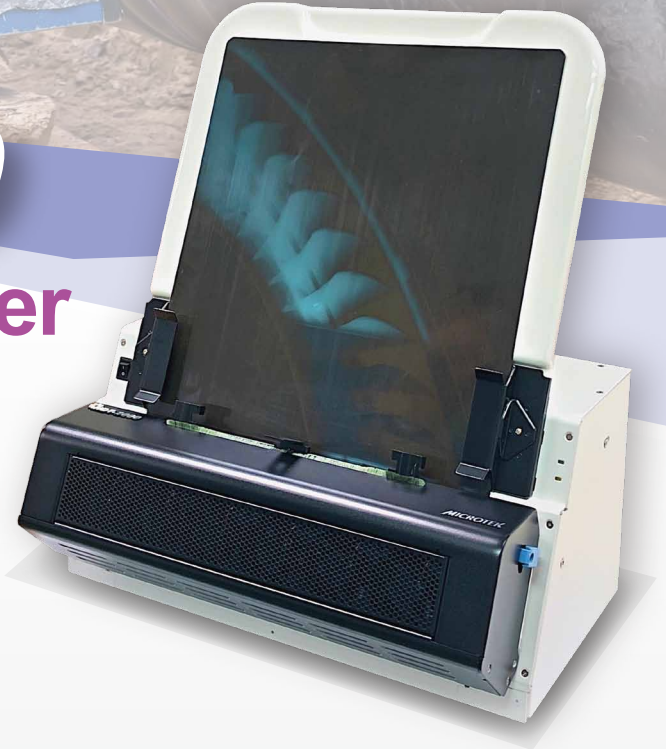# NDT-2000

NDT/RT film digitizer

BAM Design-type tested

Certification N°: BAM/ZBF /007/21

Comply with ISO 14096 DS5.5

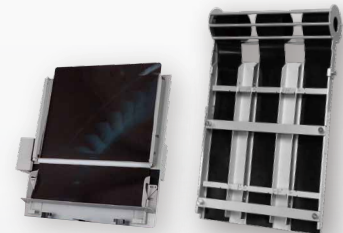## Features

1200 dpi
High Resolution

Equipped with 1200 dpi (21 µm) resolutions and 16 bits

High Dynamic Range

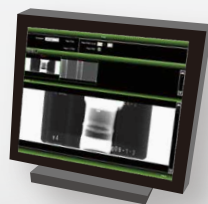Able to detect density changes between 0.37 to 4.5 optical density

Kinds of film feeder
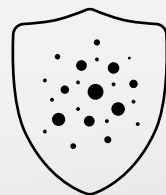
Optional AFF & MFF enhance working efficiency

Support All Film Sizes

14"
200"

Able to scan all standard film sizes and roll films up to 14" x 200"

Consistent Image Quality

Self-calibration ensuring consistent image quality
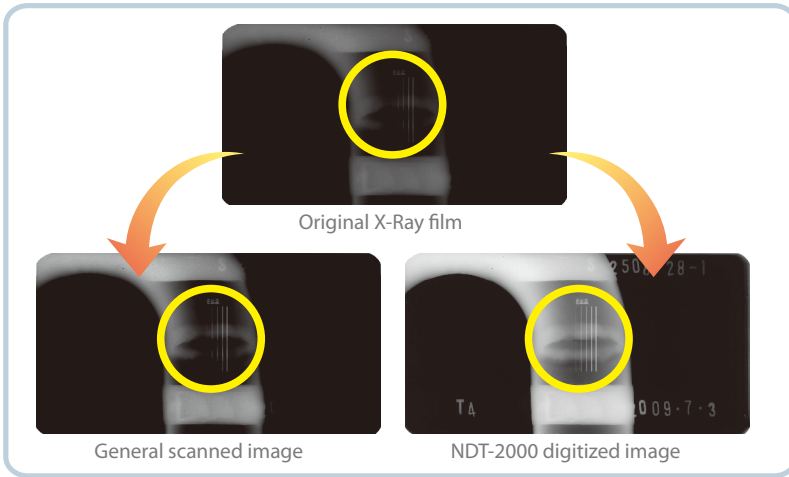
Tough Environment Resistant

Dust and dirt preventing design to conquer tough environments
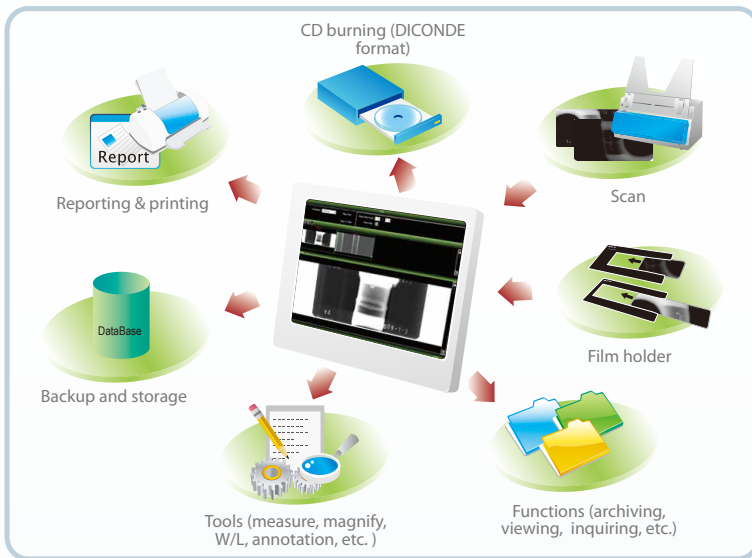
NDT-2000

Gradational Image Layers

Adopted with specialized hardware technology, NDT-2000 Digitizing System can reduce noise ratio evidently and thus it can present image layers more vividly, presenting true face of industrial films and meeting with high requirements toward image quality of NDT/RT industry.

Original X-Ray film

General scanned image

NDT-2000 digitized image

User-friendly and Intuitive Interface

MiiNDT, film digitizing and management software, lets you capture digital images in seconds and also provides you with related information about inspected images in details.

Besides, it supports judging of films in long length. With just a simple and quick connection, you can file industrial films and then start follow-up applications immediately, such as searching, measuring, annotation, burning to CD/DVD, report making and file transmitting. The captured images can be transformed into the ASTM standard and meet with the DICONDE format, easier to be reviewed and shared among NDT/RT industry.

CD burning (DICONDE format)

Report

Reporting & printing

Scan

DataBase

Film holder

Backup and storage

Tools (measure, magnify, W/L, annotation, etc.)

Functions (archiving, viewing, inquiring, etc.)

Scan Control Module

- Resolution:150, 300, 600,1200 dpi
- Scan Area: Up to 14"x 200"
- Support: AFF, Multi-tray Feeder
- Depth: 8 or 16 bits (Defult)
- File: TiFF, JPEG
- Integration: TWAIN

ScanWizard-Industry
(Bundled)

Image Archive and Viewer (DICONDE)

- File: DICONDE
- Local/network database
- Image Enhancement Tools
- Filters
- Report
- Send images over DICONDE network protocol

Software selection:

MiiNDT **AcuScreen**

Specifications

Type	Sheet-fed film digitizer
Image Sensor	CCD
Lamp Source	Green LED
Scanning Method	Grayscale in single scanning pass
Bit Depth	8-bit, 16-bit grayscale
Resolution	1200 dpi (21 µm)
Dynamic Range	0.37D ~ 4.5D (BAM certified as ISO 14096 DS5.5)
Scanning Area	14" x 200" (355.6 mm x 5080 mm)
Scanning Speed	@ 300 dpi in grayscale per 14" x 17" film 3.5D mode : 58 sec. 4.0D mode : 110 sec. 4.5D mode : 232 sec.
Film Size	Min: 2.5" x 2.5" (63.5 mm x 63.5 mm) Max: 14" x 200" (355.6 mm x 5080 mm)
Interface	Hi-Speed USB (USB 2.0)
Film Holders	8.5" x 4.5", 12" x 3 1/3"
Dimensions (L x W x H)	12.9" x 18.7" x 8.8" (329 mm x 474 mm x 224 mm; Film holders are not included)
Weight	44.5 lbs. (20.2 kg)
Power Supply	AC 100V to 240V, 50-60 Hz, 4.0A Max (Input)
Power Consumption	320 W (Max)
Certifications	CE, FCC, CB, ETL, BSMI, CCC, RoHS, WEEE
Optional Accessory	AFF: 15 pieces of film at one time (Min: 2.5" x 10"/ Max: 14" x 17") Multi-channel Film Feeder (MFF): 3 films per scan of width below: 3.5" / 4.5" / 60mm / 70mm / 80mm / 90mm / 100mm 2 films per scan of width below: 120mm and 140mm

System Requirements

- DVD-ROM drive (for installing software)
- 4GB RAM or above
- Pentium IV PC or higher with Hi-Speed USB (USB 2.0) port
- Microsoft Windows 7 / 10 / 11

Inbox Contents

- Digitizer unit with film holders
- Power cord
- High-Speed USB 2.0 cable
- CD (Includes driver and scan setting software, ScanWizard_Industry)
- User Manuel, Installation Guide, and Unpacking Instruction.

MICROTEK
SCAN THE WORLD

Integrated Solution for Digital NDT/RT

AcuScreenNDT Pro + **NDT-2000**

Workstation

WAN

Server X PACS

AcuScreenNDT Basic + **NDT-2000**

AcuScreen NDT function list

Function		AcuScreen NDT (Basic)	AcuScreen NDT (Pro)
Scan Control Module	Scanning radiographic films of any length, up to 14" wide, 1200 dpi, and 16 bits	●	●
	Storing and displaying very long images as single entities	●	●
	Multi-strip Film Feeder (up to 5 strips, customizable to any slot width)	●	●
	Automatic rotation after scanning	●	●
Image Archiver	Storing studies and images	●	●
	Supporting a network database	●	●
	Applying changes to images: transformation, annotations, metric scale	●	●
	Report system: attaching files of any format to studies	●	●
	Importing images from DICONDE	●	●
	Exporting images to a TIFF / JPEG / DICONDE folder	●	●
	Burning discs	●	●
Image Viewer	Importing from DICONDE, JPEG, TIFF, PNG, GIF, BMP	●	●
	Importing from the DICONDE query / retrieve server	●	●
	Exporting to DICONDE, JPEG, TIFF	●	●
	JPEG 2000 support, lossy / lossless	●	●
	Spliting screen into image windows (up to 5x5 layout)	●	●
	Full-screen mode	●	●
	One-click auto-fill of all image windows	●	●
	Printing on a Windows / DICONDE printer (print preview supported)		●
	Viewing DICONDE tags	●	●
	Supporting for non-Latin character sets and transliterations in DICONDE	●	●
	Histogram-based B/C adjustments		●
	B/C presets		●
	Automatic B/C adjustments	●	●
	Inverting images	●	●
	Magnifier	●	●
	Zooming / panning images	●	●
	Flipping / rotating images	●	●
	Measuring distances: line	●	●
	Measuring distances: freehand curve		●
	Measuring angles between lines	●	●
	Measuring areas: rectangle	●	●
	Measuring areas: ellipse	●	●
	Measuring areas: freehand shape		●
	Analyzing intensity statistics: max/min, mean, standard deviation	●	●
	Measuring SNR / CNR		●
	Measuring IQI		●
	Measuring wall thickness		●
	Units of measurement: mm vs. inches	●	●
	Viewing intensity profiles and histograms	●	●
	Adding arrows	●	●
	Adding fixed and scalable markers	●	●
	Recalibrating the metric scale	●	●
	Cropping images	●	●
	Stitching images		●
	Applying filters: reduce noise, sharpen, enhance edges/contrast		●
	Dual-energy filters: segmentation, subtraction		●
	Modifying thumbnail order	●	●
	Moving images between studies	●	●
	Auto-measuring distances on intensity profile		●
	Auto-recalibrating the metic scale on intensity profile		●

MICROTEK
SCAN THE WORLD