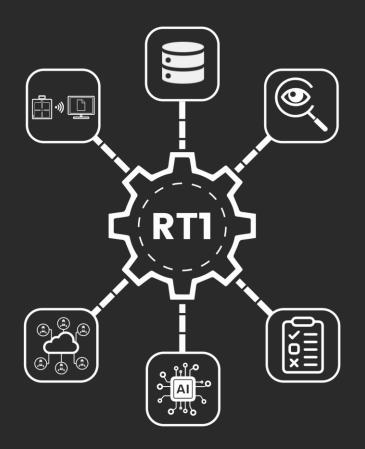


# RT1 Software

The ultimate application for RT image acquisition, analysis, reporting and sharing



### Introduction



#### **FLEXIBILITY**

- Modular concept
- Customizable
- Intuitive UI

#### **RELIABILITY**

- Cutting edge image processing tools
- Advanced measurements
- Auto Recognition of Defects (ADR)

#### **WORKFLOW OPTIMIZATION**

- Data management and sharing capabilities
- Boost of productivity
- Customizable DB architecture



### RT1 Modules



#### **IMAGE ACQUISITION**

- Intuitive UI valid for FD, CR and DR
- Basic set of imaging tools
- Rapidly check image quality before archiving/exporting



#### **IMAGE VIEWER**

- Toolset of cutting-edge image processing tools
- Adapted to any type of user
- Easily save annotations and measurements



#### REPORT SYSTEM

- Totally customizable to your workflow requirements
- Multi-user & roles management
- Electronical signature



- Based on the most advanced deep machine learning (DML)
- Verify thousands of images within seconds
- Boost productivity and security
- >99% proven accuracy



#### **DATABASE MANAGER**

- Based on DICONDE standards
- Hierarchical DB architecture
- Totally customizable
- Include attachments of any kind



#### **CLOUD SERVICE**

- Easily share data with other inspectors and asset owners
- Assign rights & roles to different type of users
- Public / Private cloud setups available

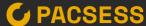


### RT1 Portal

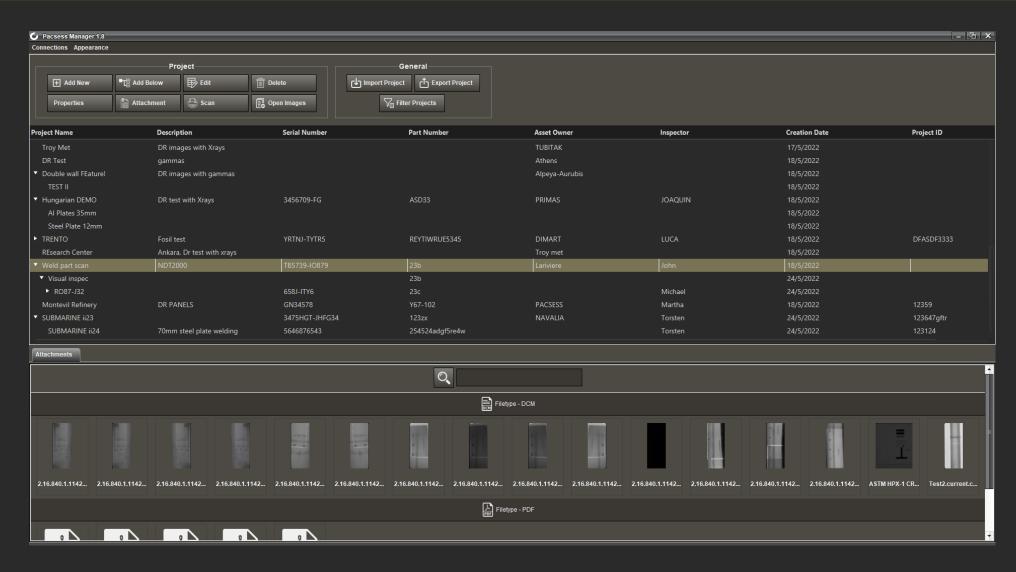
Always in perfect sync thanks to our PACSESS Portal, we can configure our software to your exact needs:



- PACSESS Portal ensures the most efficient organization of your daily work by accessing all modules and functionalities provided by RTI Software
- Get notified about Software updates available
- Upgrade your license with extra modules or feautures directly from the Portal within seconds



## Database Manager





## Database Manager

- Database field names can be totally customized to your daily workflow
- Maximum flexibility for your database architecture by simply adding as many hierarchy levels as you
   need to your projects & subprojects
- Assign and manage user's roles & rights
- Import & Export images to/from database manager (dcm, tiff, jpgs, bmp)
- Save any other type of file formats into your DB: pdf, doc, jpg, tiff, wav, mp4, etc...
- Reordering of images within one study, move images from one project to another

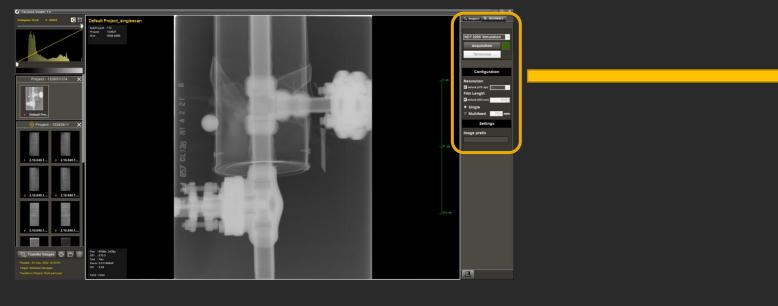
#### PROPERTIES BOX

- Store any other type of extra relevant information
  into your projects such as voltaje, distance, type of source, etc...
- Fully editable by any type user

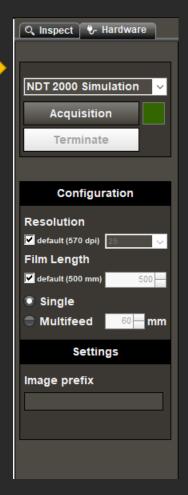




## Image Acquisition

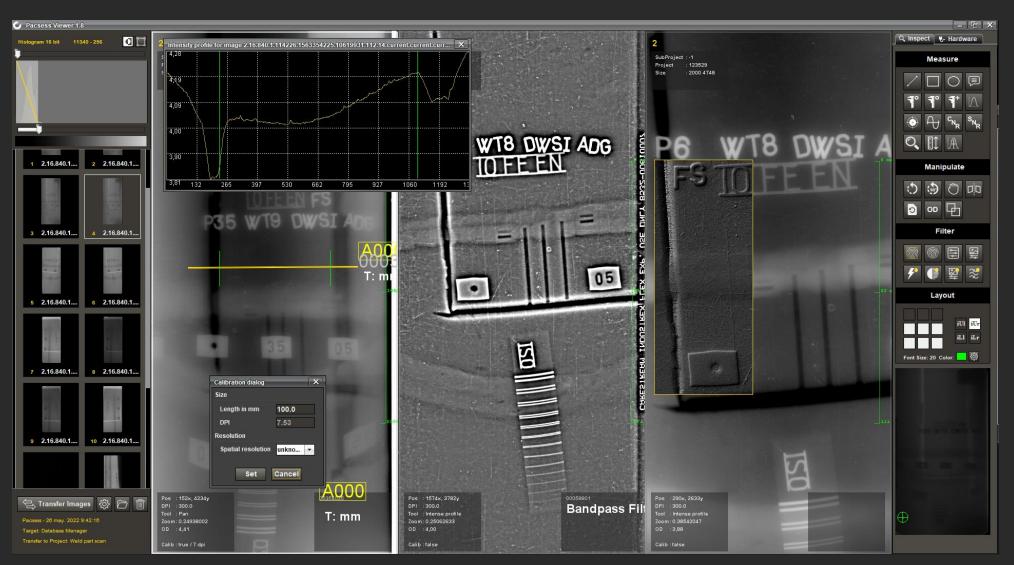


- Easily select resolution needed for the scan proccess
- It supports three different scanning modes: single scan, autofeeder and multistrip film feeder
- Scan films of virtually any length without any stitching process a posteriori
- Name your image files as you wish right before starting the scanning process (this files names will appear on your further export files into jpg, tiff, etc...)





# Image Viewer





# Image Manipulation Tools

- Spatial transformations:
  - Flip
  - Rotate (90° and free angle)
  - Pannning
  - Smart zooming

- Brightness & contrast adjustments:
  - Inverting grayscale values
  - Right click of the mouse (Manual adjustment)
  - Adjusting values on Histogram (Manual adjustment)
  - Local Histogram Optimization: automated and dynamic adjutment of B/C by ROI (Region of Interest)





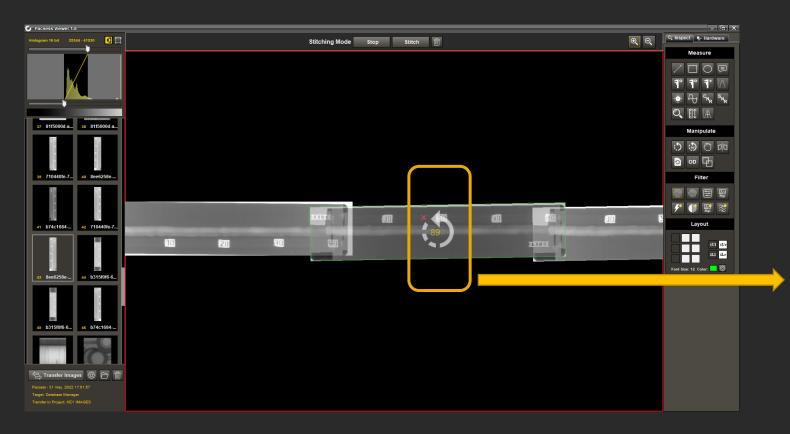
### Measurements & Annotations

- Measurements: straight line, areas, etc...
- Annotations & comments as overlayed text:
  - Edit colors, position and font size of all annotations and measurements values
  - Export funtion as overlayed text on jpgs, tiff and bmp images
- Easily switch from Optical Density values to Grayscale values
- Metric calibration based on a known-size artifate in the image
- Dynamic intensity profile features:
  - Measuring distances (automated detection of edges)
  - Calibrating metric values
  - Wall thickness measurement (ADR)
  - Cross intensity profile
- CNR & SNR values (normalized)
- Dynamic magnifier (loupe)
- Overlayed yardstick on the image for metric reference





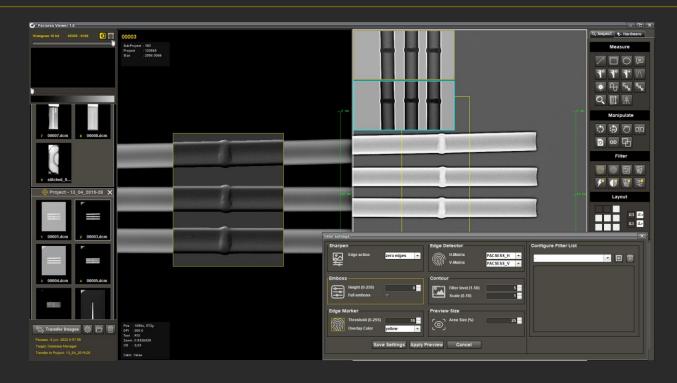
# Stitching



- Stitch unlimited frames into one new image
- Smart zooming feature withing the stitching dialogue
- Overlayed areas with transparency for an optimal result
- Tilt the images with free angle rotation in order to get a perfect allignment of the object under inspection



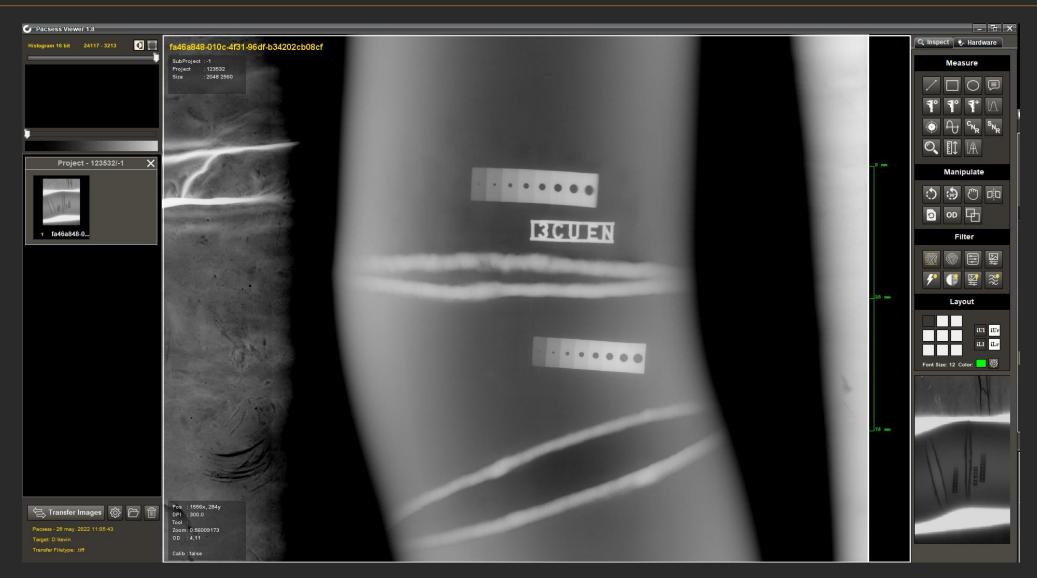
# Filters & Image Proccessing Tools



- Extensive toolkit of basic NDT Filters: Shapen, Edge Enhancement, Reduction of Noise, Contrast Enhancement,
   etc...
- Dynamic previewer window for intuitive adjustment of intensity of selected filter
- Create your own pallet of "one-click" custom filters
- Advanced NDT Filters: Snap!® Toolkit



# Original Image



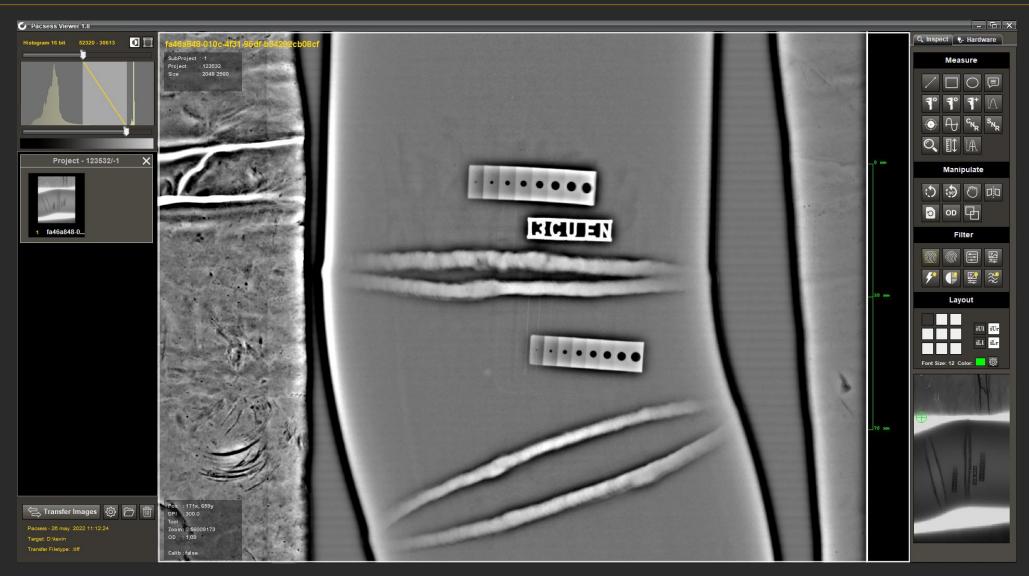


# Snap! Filter



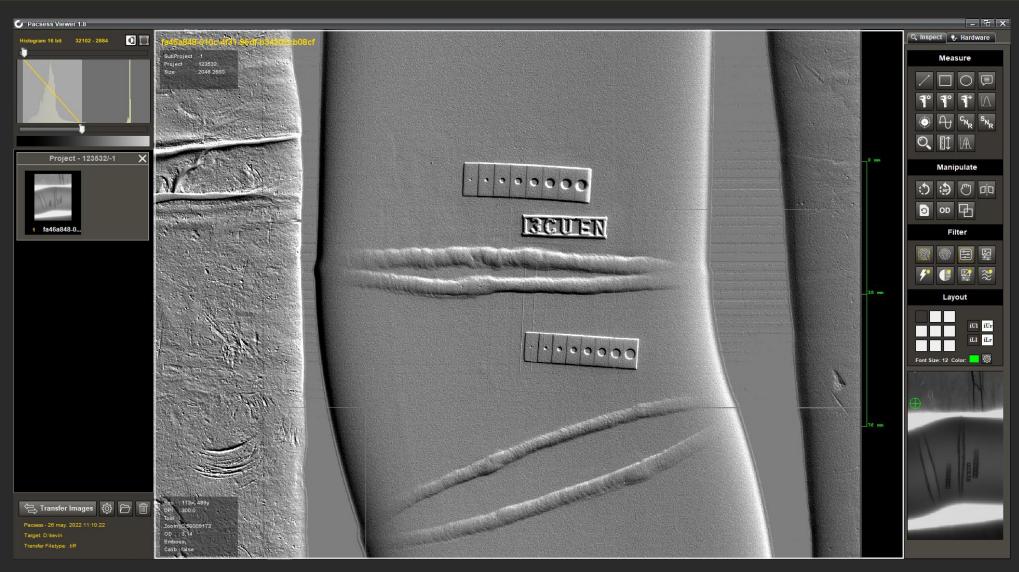


# Bandpass Filter



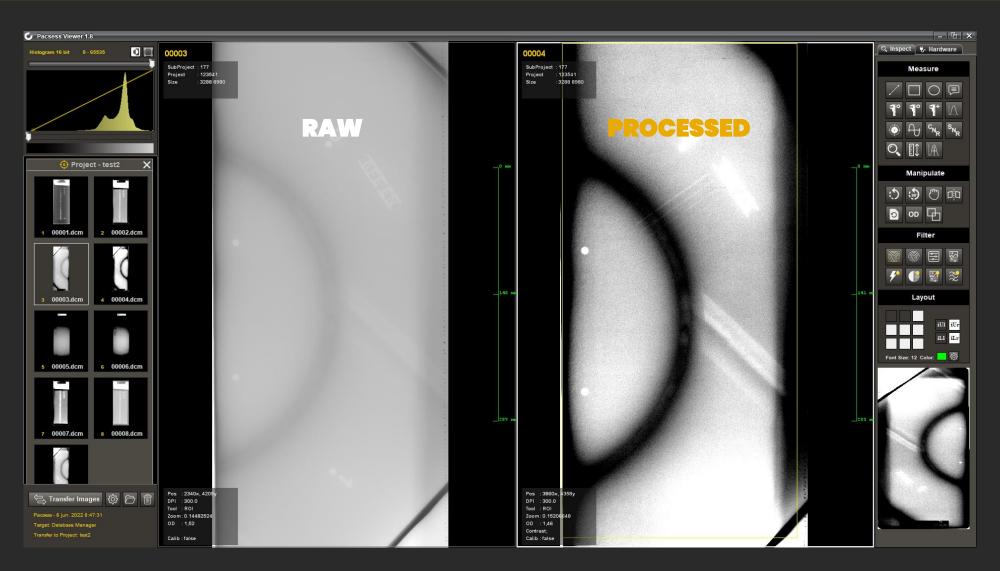


### **Emboss Filter**





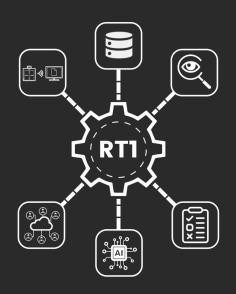
### Filters: Contrast Enhance





# Hardware Requirements

	MINIMUM	RECOMMENDED
Processor (AMD/Intel)	4 Cores / 8 Threads	8 Cores / 16 Threads
RAM	16 GB	32 GB
ssd/HDD	500 GB	1 TB
OS	Windows 10	Windows 11





**C** PACSESS

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