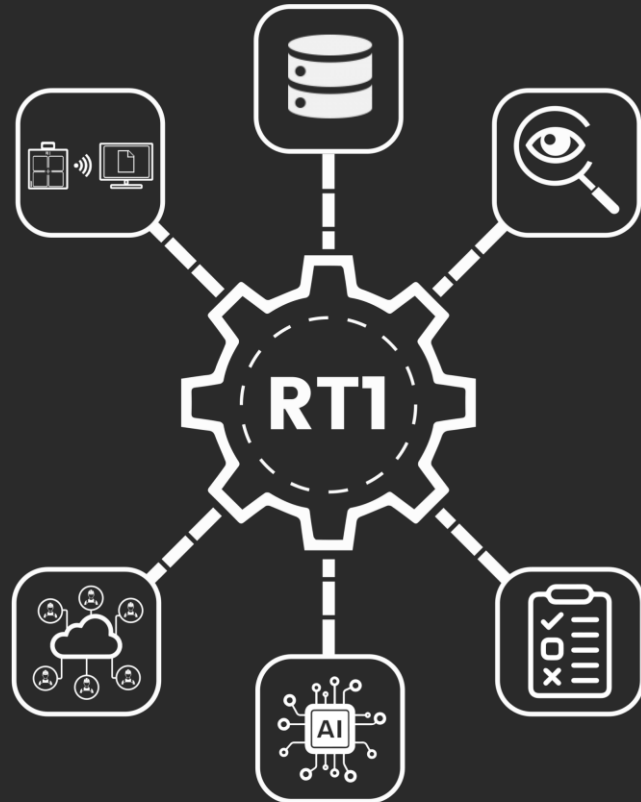# PACSESS

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

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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

ADR

- 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

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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 RT1 Software
- Get notified about Software updates available
- Upgrade your license with extra modules or feautures directly from the Portal within seconds

Database Manager

Pacsess Manager 1.8

Connections   Appearance

Project

Add New | Add Below | Edit | Delete

Properties | Attachment | Scan | Open Images

General

Import Project | Export Project

Filter Projects

Project Name	Description	Serial Number	Part Number	Asset Owner	Inspector	Creation Date	Project ID
Troy Met	DR images with Xrays			TUBITAK		17/5/2022	
DR Test	gammas			Athens		18/5/2022	
▼ Double wall FEature!	DR images with gammas			Alpeya-Aurubis		18/5/2022	
TEST II						18/5/2022	
▼ Hungarian DEMO	DR test with Xrays	3456709-FG	ASD33	PRIMAS	JOAQUIN	18/5/2022	
Al Plates 35mm						18/5/2022	
Steel Plate 12mm						18/5/2022	
▶ TRENTO	Fosil test	YRTNJ-TYTR5	REYTIWRUE5345	DIMART	LUCA	18/5/2022	DFASDF3333
REsearch Center	Ankara, Dr test with xrays			Troy met		18/5/2022	
▼ Weld part scan	NDT2000	TB5739-IO879	23b	Lariviere	John	18/5/2022	
▼ Visual inspec			23b			24/5/2022	
▶ RO87-J32		658J-ITY6	23c		Michael	24/5/2022	
Montevil Refinery	DR PANELS	GN34578	Y67-102	PACSESS	Martha	18/5/2022	12359
▼ SUBMARINE ii23		3475HGT-JHFG34	123zx	NAVALIA	Torsten	24/5/2022	123647gftr
SUBMARINE ii24	70mm steel plate welding	5646876543	254524adgf5re4w		Torsten	24/5/2022	123124

Attachments

🔍

📄 Filetype - DCM

2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | 2.16.840.1.1142... | ASTM HPX-1 CR... | Test2.current.c...

📄 Filetype - PDF

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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

Creation Date	Inspector	Weld part scan Properties	
17/5/2022		Source	X-rays
18/5/2022		Voltage	250 Kv
18/5/2022		mA	1.5
18/5/2022		FOD	350mm
18/5/2022	JOAQUIN	Material	Aluminium
18/5/2022		Thickness	20mm
18/5/2022		Weld length	205mm
18/5/2022	LUCA	Welder	Pedro R.
18/5/2022		Name	Value
18/5/2022	John		
24/5/2022			
24/5/2022	Michael		
18/5/2022	Martha		
24/5/2022	Torsten		
24/5/2022	Torsten		

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Image Acquisition

- Easily select resolution needed for the scan proccess

- It supports three different scanning modes: single scan, autofeeder and multi-strip film feeder

- Scan films of virtually any lenght without any stitching proccess a posteriori

- Name your image files as you wish right before starting the scanning proccess (this files names will appear on your further export files into jpg, tiff, etc…)

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Image Viewer

Image Manipulation Tools

- **Spatial transformations:**
  - Flip
  - Rotate (90º 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)
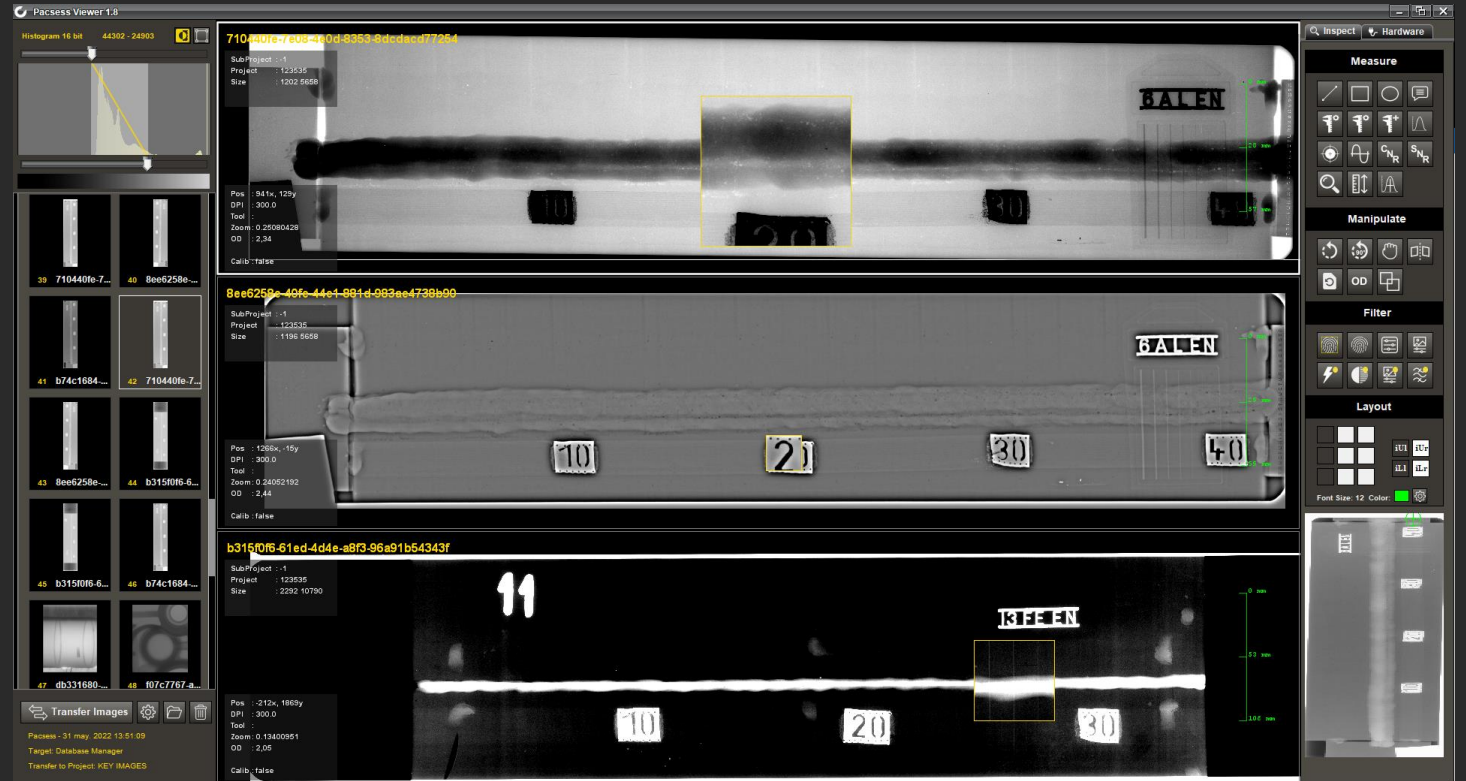
Measurements & Annotations

- 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 artifatc 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

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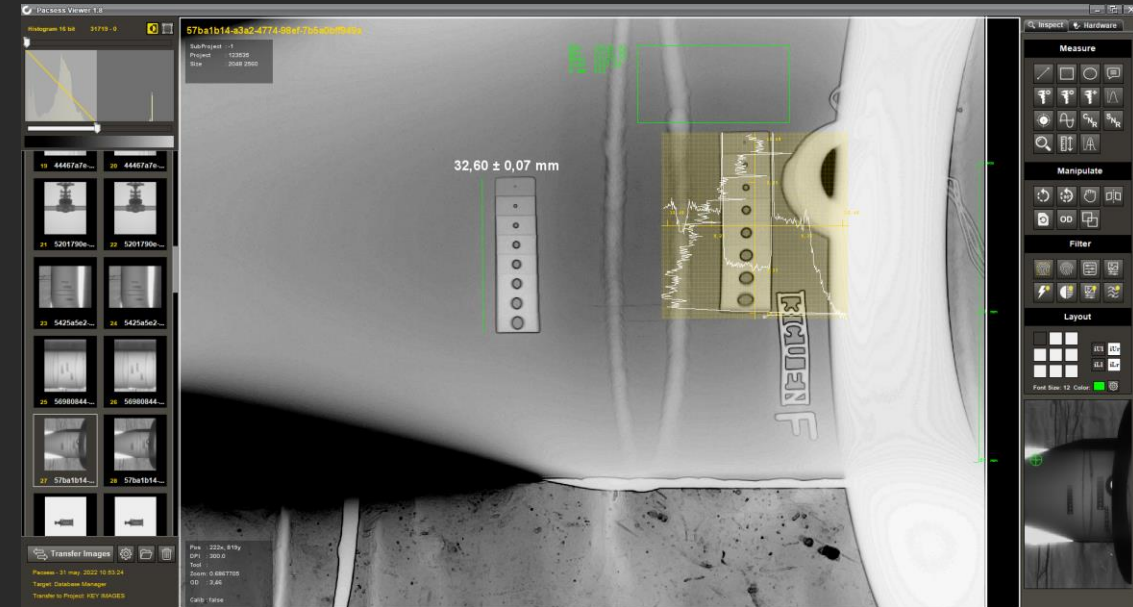
Stitching

- 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

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Filters & Image Proccessing Tools
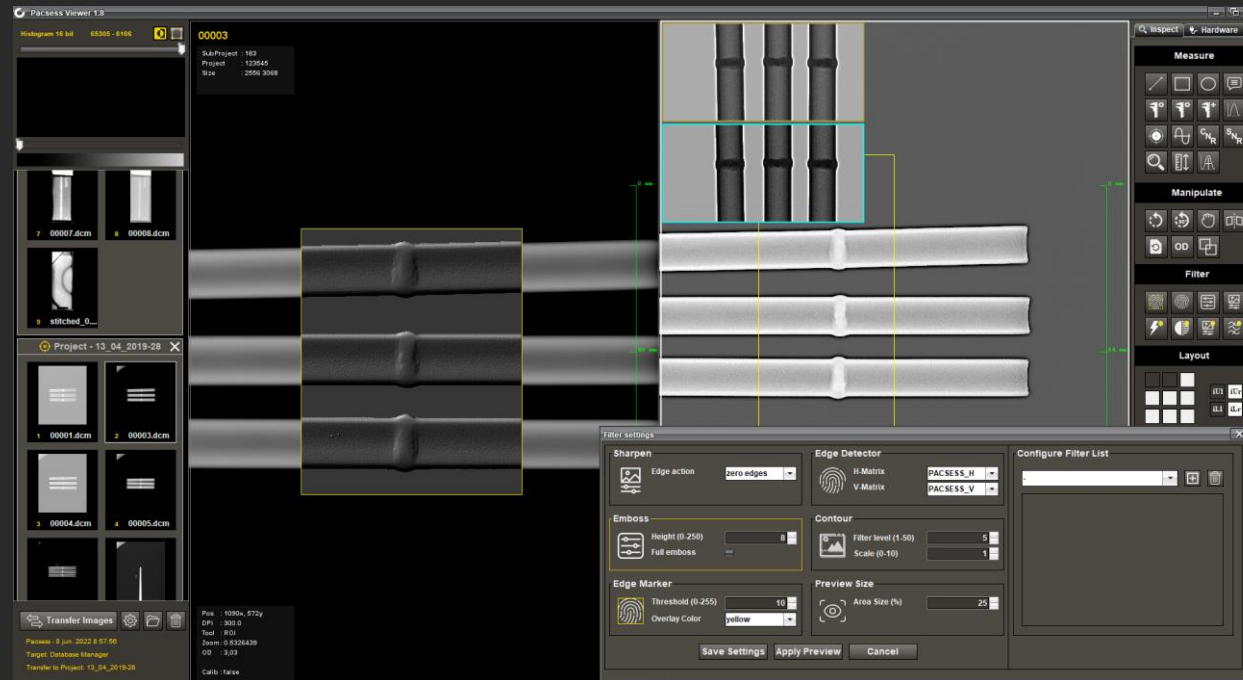
- Extensive toolkit of basic NDT Filters: Shapen, Edge Enhancement, Reduction of Noise, Contrast Enhancement, etc...

- 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

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Original Image
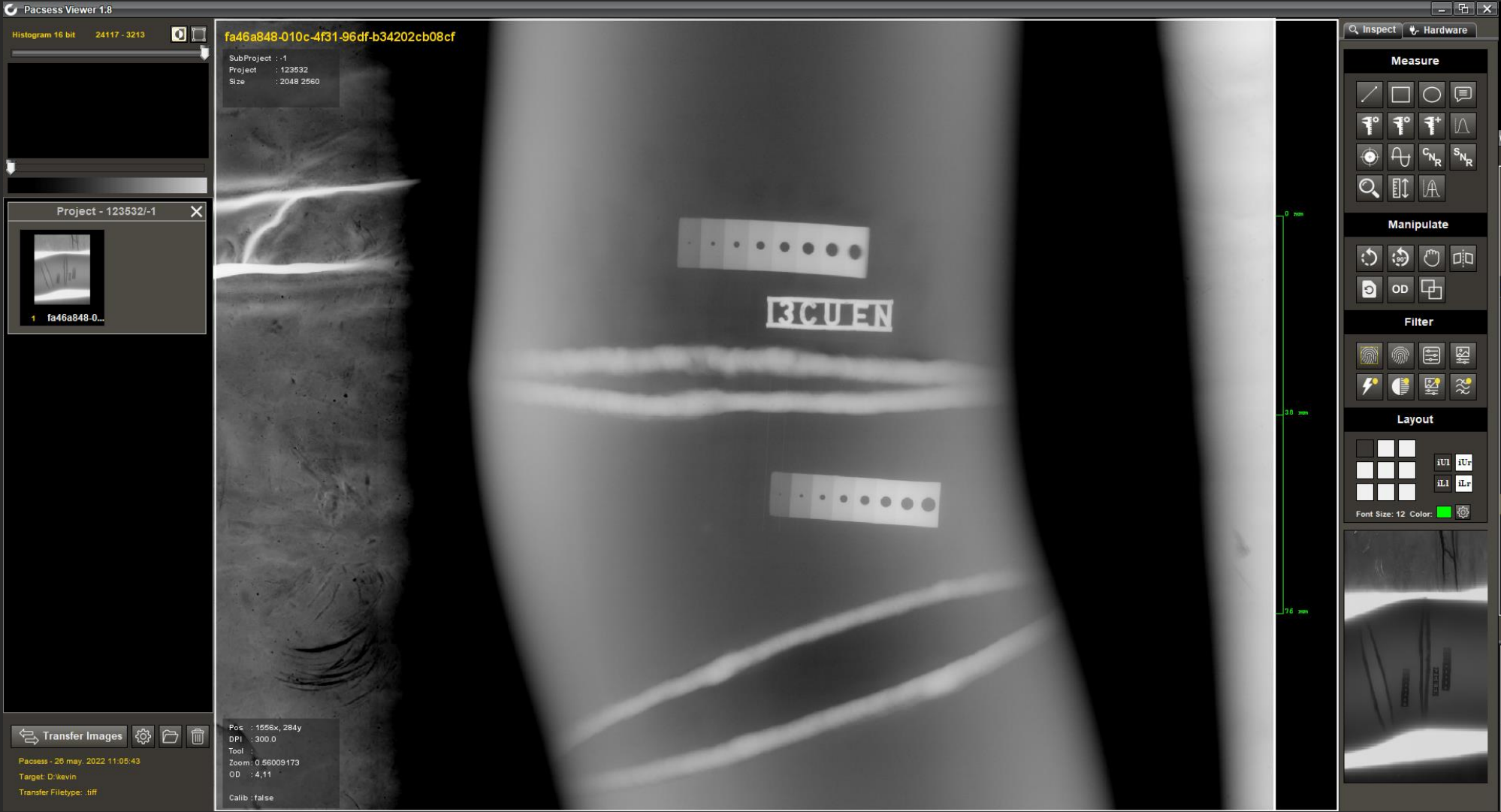
Snap! Filter

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
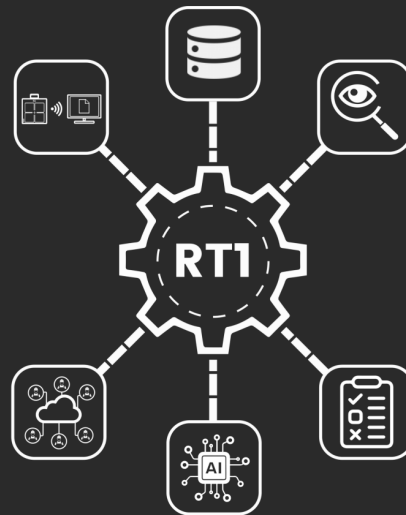
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www.pacsess.com

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Workstations & Monitors