NEW

OmniPro-I'm*RT*+

Pre-Treatment Plan Verification
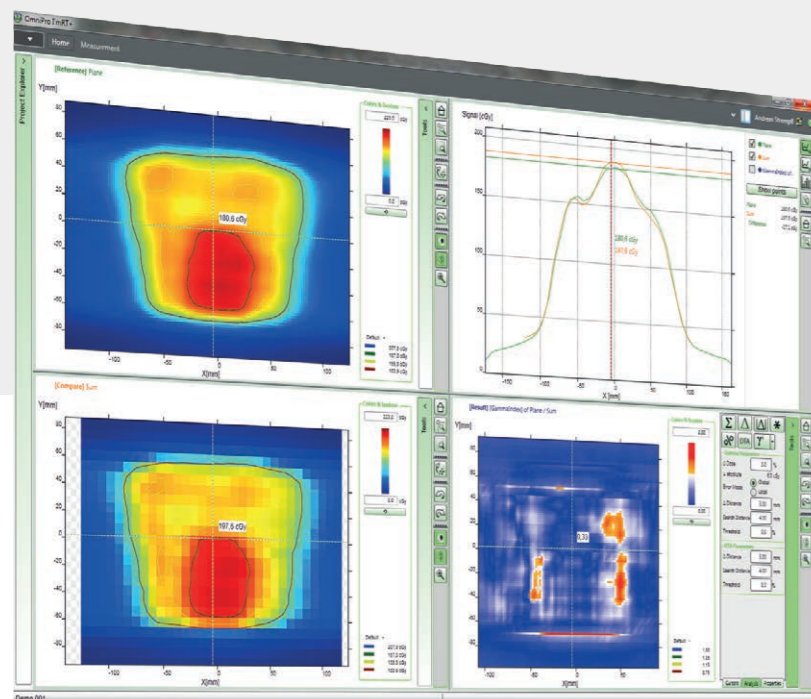
iba

DOSE SAFETY · PEACE OF MIND

Efficient, Intuitive, Connected

OmniPro-I'mRT⁺

Efficient, Intuitive & Connected
Plan Verification through the Central Database Network
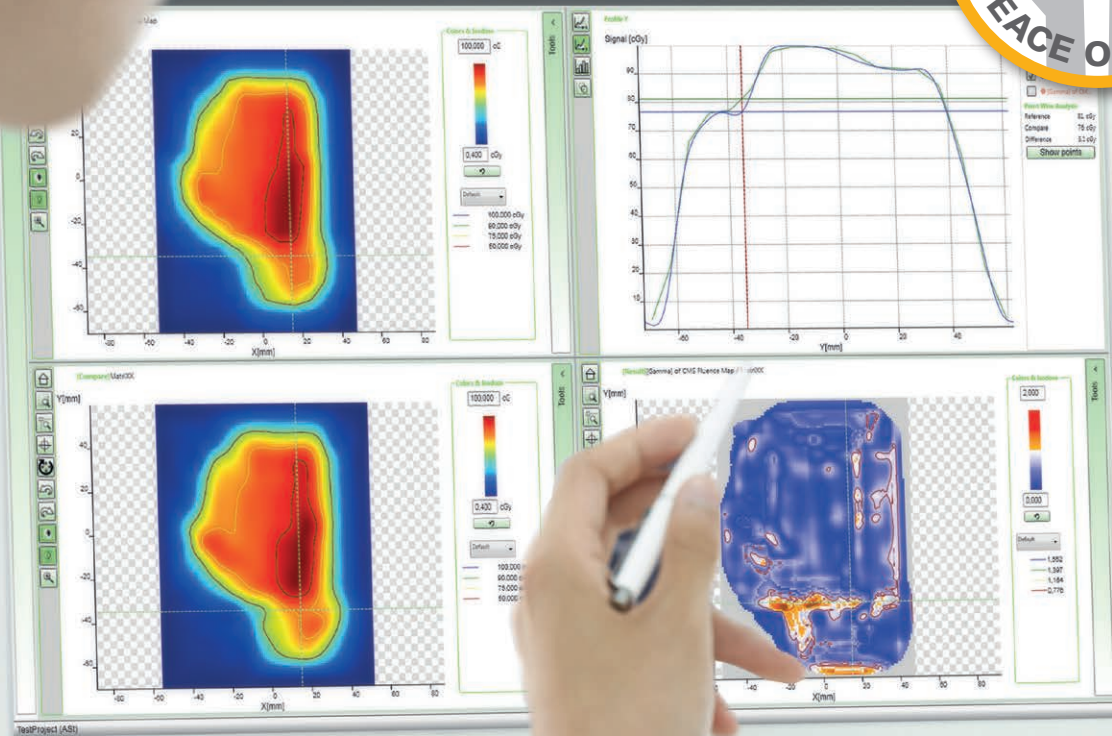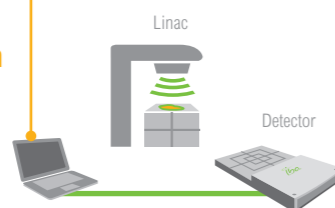
DOSE SAFETY · PEACE OF MIND

What is OmniPro-I'mRT⁺?

The all new **workflow-optimized** software for 2D verification of dose distribution in just 4 steps. Designed to increase your efficiency and reduce the patient QA time of your IMRT / Rotational cases.
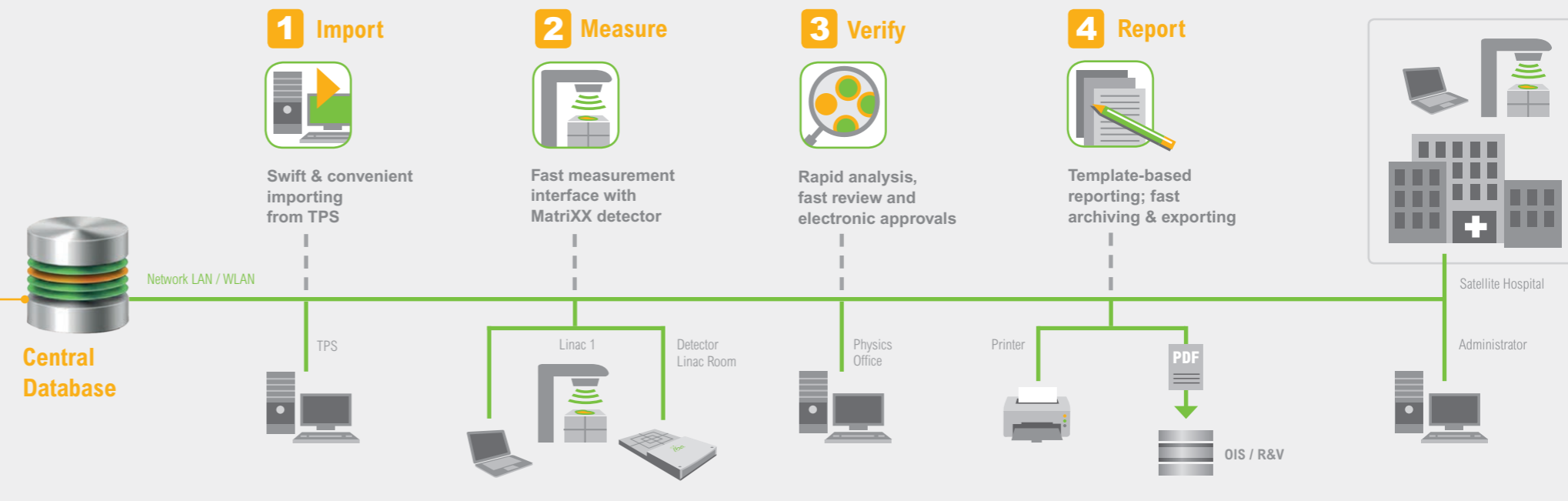
1 Import
Swift & convenient importing from TPS

2 Measure
Fast measurement interface with MatriXX detector

3 Verify
Rapid analysis, fast review and electronic approvals

4 Report
Template-based reporting; fast archiving & exporting

Network LAN / WLAN

Central Database

TPS

Linac 1 · Detector Linac Room

Physics Office

Printer

PDF

OIS / R&V

Satellite Hospital

Administrator

Local Installation
Single licence solution

Linac

Detector

Promptly connects locations & staff

✔ Network-wide access from multiple client workstations to your complete data

✔ Share data in the department or with satellite hospitals

✔ Access and manage your patients, projects, and equipment data from a central database

Maximize workflow flexibility

✔ There are no restrictions for where and when you do your different QA steps

For example:

1. Prepare measurements in your office
2. Measure quickly at the Linac
3. Option to verify directly at the linac or afterwards in your office
4. Report and approve when you are ready

Data management & safety

➤ Advanced data security with centralized management of users and equipment

➤ High data safety (data backup)

➤ No need to create a local folder – Save data directly to the database

➤ Microsoft SQL server

User administration

➤ Data integrity with an advanced user management portal

➤ User specific access with approval rights and comments

➤ Secure login with user roles:
   – Predefined default user profiles
   – Roles customizable for each user
   – Create new roles as needed

User Administration

Your optimized solution for:

✔ **IMRT / Rotational** delivery vs. plan verification

✔ Analysis of **single or composite dose IMRT** fields

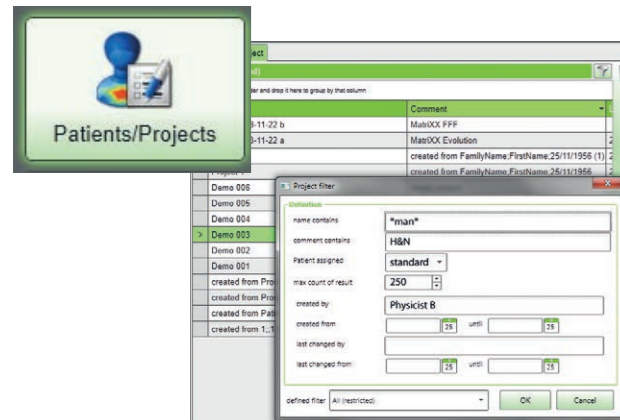✔ **Real-time** visualization of measured 2D delivery

Overall, I find the new software very sophisticated. Next to the modern software functionality, I like the central database approach. The database offers me a higher level of workflow flexibility, as I can now store all measurements and patient data in one central location. Once stored, I can access the data from different locations throughout our department network, allowing me to easily keep track of the status of our QA work. The solution also enables you to smoothly integrate satellite departments into your QA workflow.

Daan Hoffmans,
Physicist,
VU University
Medical Center,
Amsterdam,
Netherlands
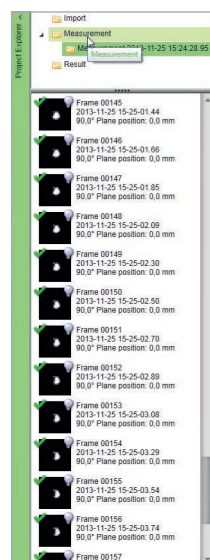
1 Import & Prepare

2 Measure

Fast preparation of new patient data and equipment

➤ Swift and convenient import from TPS

➤ Flexible extended DICOM interface:
  – Read DICOM files
  – Query / Retrieve from DICOM server
  – DICOM Listener for import via network
  – Import from a DICOMDIR
  – Import of propriety dose and fluence files

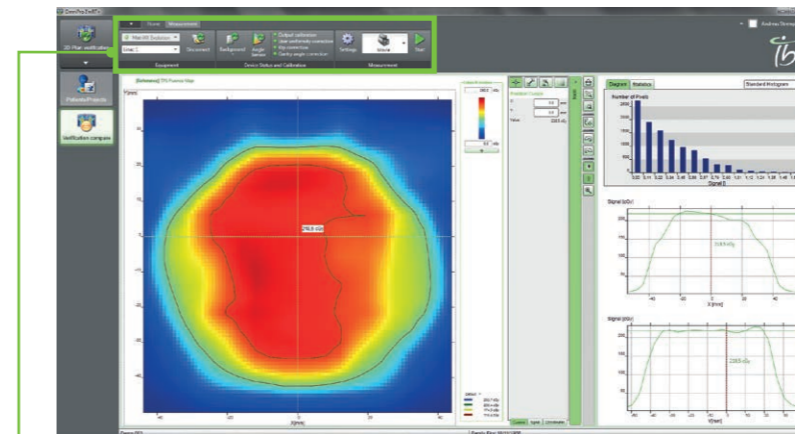### Database Advantage: Fast and flexible import and data organization

✔ Import treatment plans from your network. Projects are created automatically with DICOM file parameters

✔ Prepare patient data and treatment plans in your office before you measure at the Linac

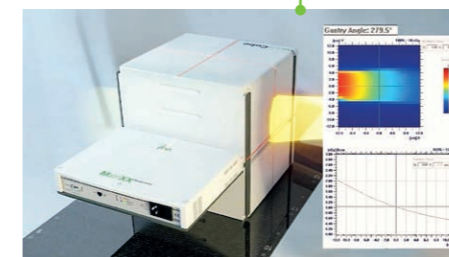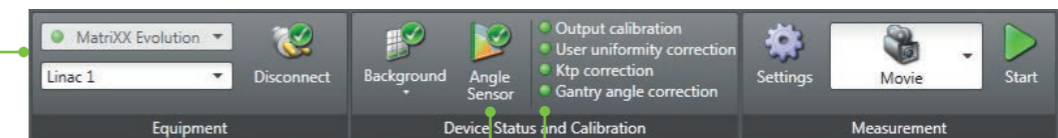### Database Advantage: Minimize Linac time (occupation)

✔ Load your prepared patient data at the console, and finish measurements faster

✔ Save measurements in the database

✔ Analyze immediately or at your convenience (load measurements from database)

✔ Manage your MatriXX calibration data

Flexible data management with 3 category levels:

➤ Patients
➤ Projects
➤ Data folders

Workflow-guided menu

➤ Save time with fewer steps
➤ Simple and swift: Click from left to right to complete all steps

Visual confirmation for successful completion of each step

James P. Nunn, MS, CHP, DABR, Senior Medical Physicist, Lewis Gale Regional Cancer Center, Pulaski, USA

The entire software package has been completely redesigned and re-engineered from the ground up to maximize efficiency and streamline the IMRT QA process. The elimination of repetitive steps allows me to greatly reduce the time required for patient plan verification. For example, I save Linac time by preparing all patient data beforehand in my office. During measurements I simply load the patient data and start right away. The results for plan verification are presented in a straight forward manner. All in all, a nice advancement over the previous software giving me more efficiency and flexibility for my plan verification.

Convenient and safe data management

➤ Straight forward patient and machine data handling: Search, filter, archive, restore
➤ Customizable data fields and notes at any time
➤ Data saved automatically to database

Gantry Angle Sensor

➤ **Precise** measurements of **Linac rotation** for RapidArc™ / VMAT
  – Measure dose per frame as a function of the gantry angle
  – Automated correction of the angular dependency

MatriXX and MULTICube – Data display during measurement

➤ **Fast measurement interface for MatriXX detectors*** OmniPro-I'mRT+ supports your existing MatriXX
➤ **Data communication via standard Ethernet connection** (standard network cable)
➤ **Safety:** Restore original measurement data anytime
➤ **Beam Trigger Mode** (Auto start / stop of measurement)

3 # Verify

4 # Report

Comprehensive and efficient analysis of planned vs. measured treatments

➤ Rapid calculation and quick review of results

➤ Relative and absolute gamma evaluation

➤ 1D and 2D visual and mathematical analysis tools

➤ Wide range of algorithms for data processing, including undo / redo stack, traceability of all modifications, and the possibility to restore original measurements with just one click

Database Advantage:
### Flexiblity to verify your measurements according to your schedule and location

✔ Load your measurements electronically, verify wherever and whenever convenient

✔ Save your verification results in the database and make them available to others

Easy reporting and archiving on the database

➤ Template-based "one-click" fast reporting
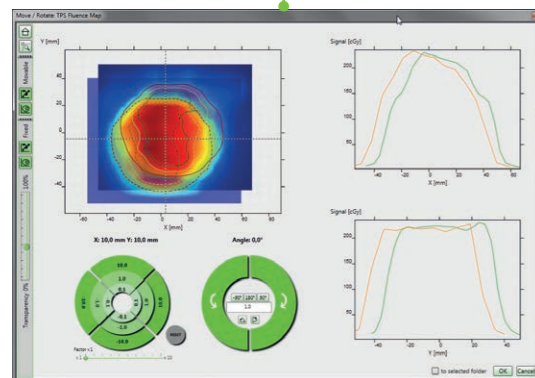
➤ Export as RTF, HTML or PDF file

Database Advantage:
Flexibility and safety for reporting and approvals

✔ Safe archiving in the database

✔ Access the report throughout the department for approval

→ Patient Data
→ Beam Data
→ Results
→ Signatures

Plan approval
Including comments
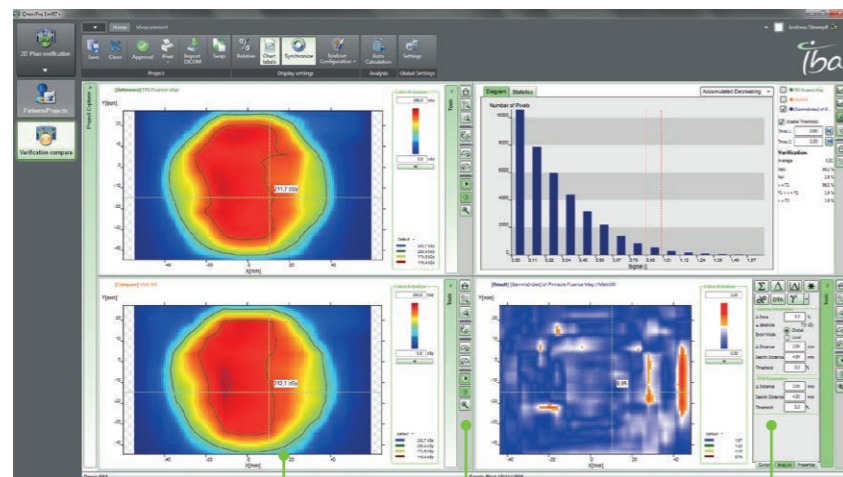
Workflow optimized interface

Tool bar for instant access to key functions

Visual Comparison
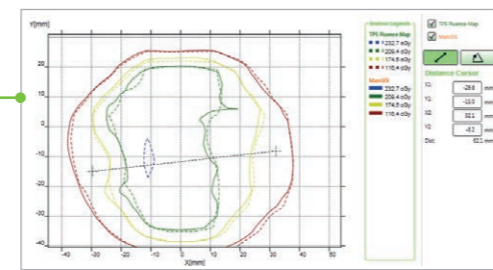
Isodose comparison

Profile comparison

Intuitive interface for pattern alignment, semi-transparent overlay of images, and isodose lines; instant overlay of profiles
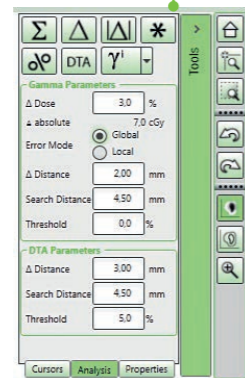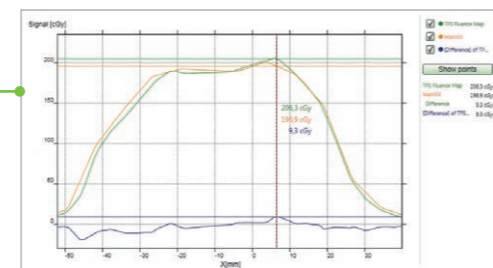
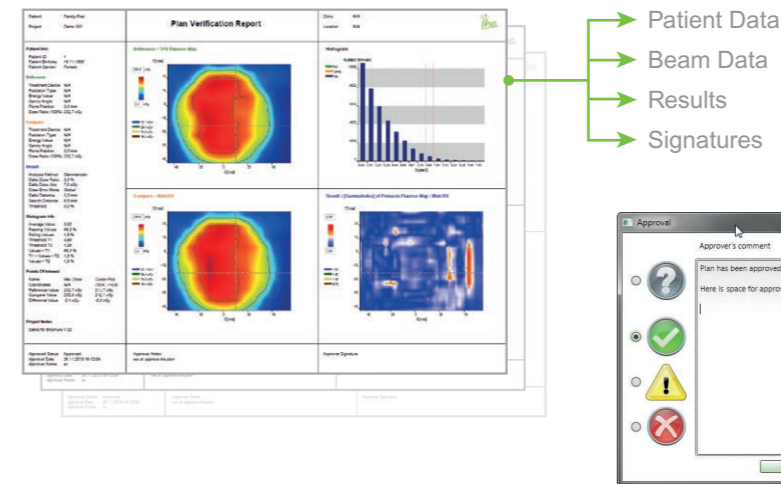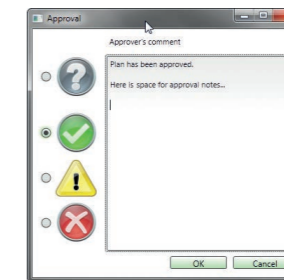Expandable tool view for additional functionality

Algorithms for mathematic comparison

➤ **Global & local gamma**

➤ Quotient, DTA

Training: Clinical expertise for better outcomes
High-end training for fast and safe clinical implementation

IMRT & Rotational plan verification

Best practices for your efficiency and safety in patient plan QA:

➤ Plan verification: From phantoms and hybrid plans to advanced 3D/4D plan verification

➤ Efficient implementation of MatriXX measurements for plan verification

Theory and hands-on training in a high-end clinical environment with experienced trainers.

Find more under www.icc-ibadosimetry.com

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[INTERNATIONAL COMPETENCE CENTER]

OmniPro-I'mRT+

Technical Specifications

Software Specifications and Details

TPS import

Import of planned 2D & 3D dose from:
- DICOM RT Dose
- Proprietary formats (e.g. Monaco® / XiO®)
- Import of fluence maps from various TPS e.g. Monaco® / XiO®, Pinnacle, Eclipse™ (via DICOM RT plan compensator) online

Flexible extended DICOM interface:
- DICOM Listener
- Import of DICOM Files, DICOMDIR & via Query / Retrieve

Automated mathematical analysis
- Absolute dose verification
- Verification of planned vs. measured, measured vs. measured, and planned vs. planned data
- Basic mathematics: Sum, (absolute) difference, multiplication, division
- Advanced mathematics: DTA (distance to agreement), extended gamma method (threshold, gamma angle, optimized algorithm)
- Region of interest analysis
- Rescaling, automatic origin correction, shifting, turning, flipping, adding constant values, changing plane, converting grid, local and global gamma index

Archive, Report, Export
- Archive on database server
- Data export via ASCII and CSV files
- Copy & paste via Clipboard (e.g. to Microsoft® Excel, Word, Notepad)
- Flexible reporting on paper, as PDF, RTF or as HTML

RSS Feed
- Latest service information and technical notes

Minimum Computer Requirements

Operating system	**Microsoft® Windows® 7 (32 bit and 64 bit)** **Microsoft® Windows® 8 (32 bit and 64 bit)** **Microsoft® SQL Server Express 2008 R2 or 2012 (included)** **Microsoft® SQL Server 2008 R2 or 2012 (optional)**
Memory	**4 GB RAM; CPU: Intel® i7 or equivalent**
Hard drive	**With at least 160 MB available, recommended 40 GB for data archiving**
Monitor and graphics	**Min. 1280x720 (HD720), recommended 1440 x 900 or higher**
Available ports	**Ethernet connection (RJ-45 for MatriXX)**

Images and technical specifications are subject to change without prior notice.

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iba-dosimetry.com or at
YouTube.com/user/ibadosimetry

www.iba-dosimetry.com

Protect, enhance and save lives

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