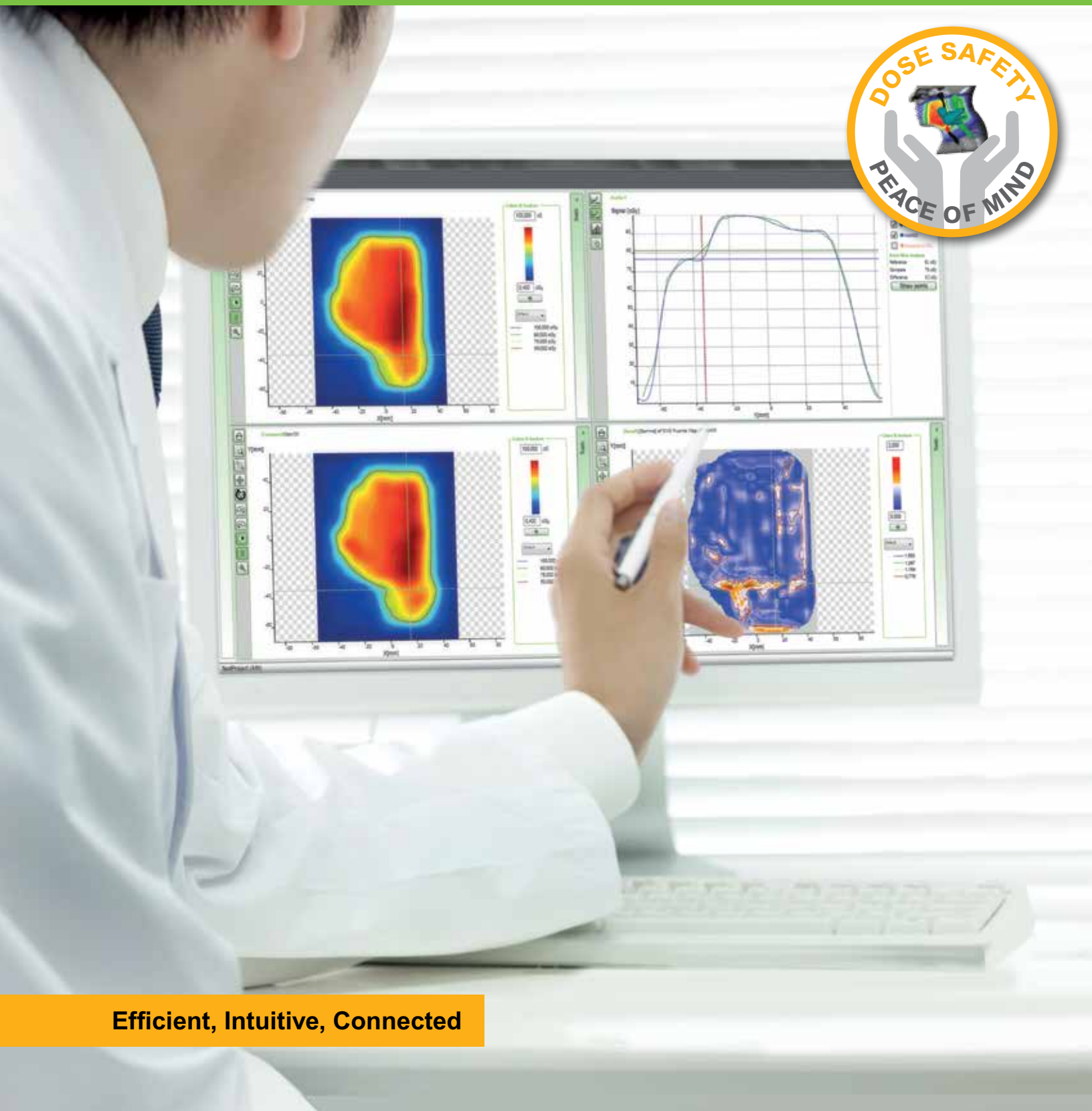
NEW

OmniPro-I'mRT+

Pre-Treatment Plan Verification



Efficient, Intuitive, Connected

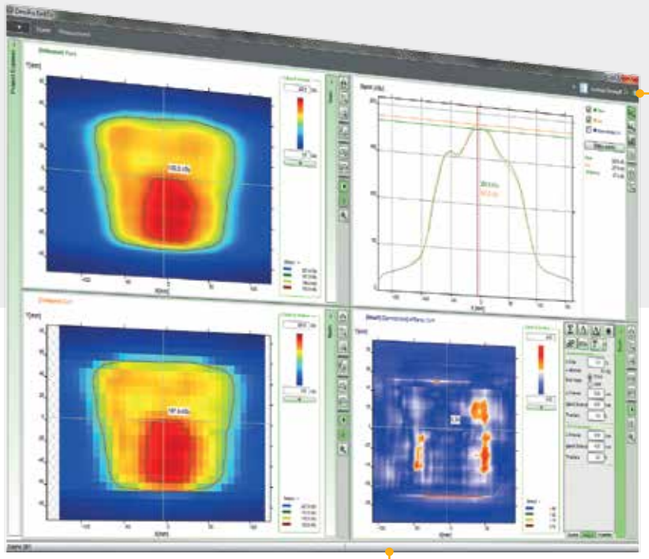
OmniPro-I´mRT+

Efficient, Intuitive & Connected

Plan Verification through the Central Database Network

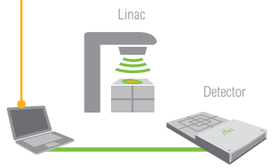
What is OmniPro-I´m*RT+*?

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.



Local Installation

Single licence solution



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

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**

Daan Hoffmans,
Physicist,
VU University
Medical Center,
Amsterdam,
Netherlands

"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."

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

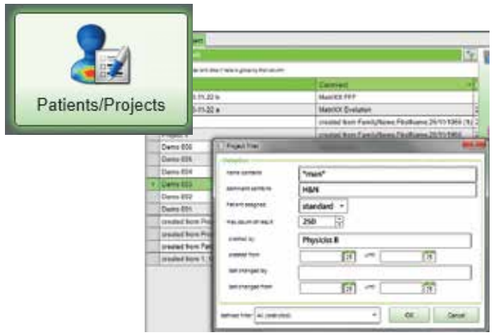
User administration

- ➤ 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

1 Import & Prepare

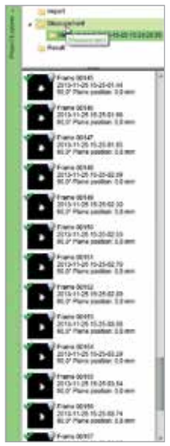
Fast preparation of new patient data and equipment

- **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



Flexible data management with 3 category levels:

- **Patients**
- **Projects**
- **Data folders**



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**

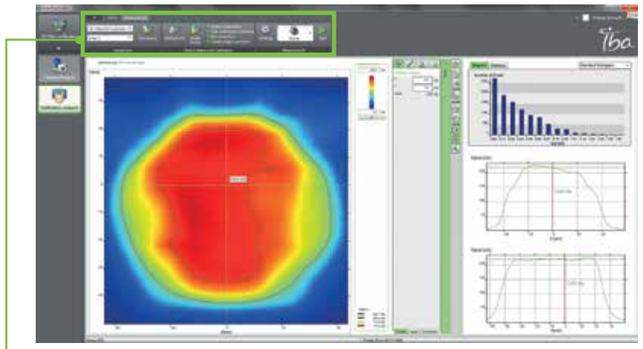
Database Advantage:
Fast and flexible import and data organization

- ✔ 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

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."

2 Measure



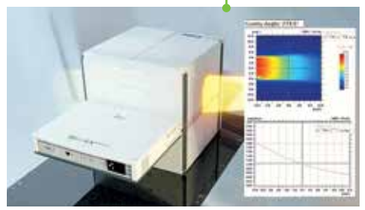
Database Advantage:
Minimize Linac time (occupation)

- ✔ 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

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**



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'm*RT*+ supports your existing MatriXX, or the new MatriXX *FFF*
- **Data communication via standard Ethernet connection** (standard network cable)
- **Safety:** Restore original measurement data anytime
- **Beam Trigger Mode**
  (Auto start / stop of measurement)

MatriXX*FFF*

- **Improved measurement accuracy for high dose rate treatments**

* I'm*RT* MatriXX; MatriXX*Evolution*; MatriXX *FFF* detectors

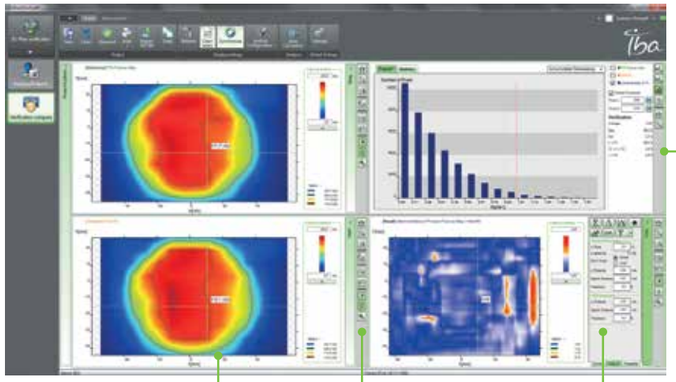
3 Verify

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

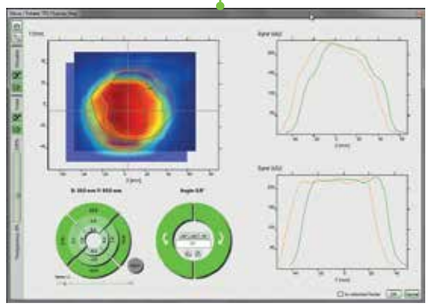
Database Advantage:
Flexiblity to verify your measurements according to your schedule and location

- ✔ Load your measurements electronically, verify wherever and whenever convenient
- ✔ Save your verification results in the database and make them available to others

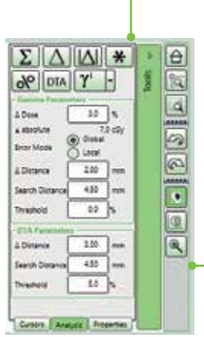


Workflow optimized interface

Tool bar for instant access to key functions

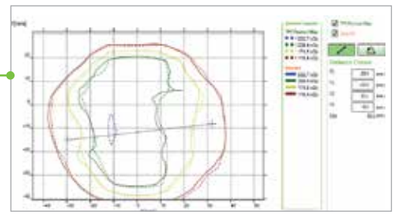


Intuitive interface for pattern alignment, semi-transparent overlay of images, and isodose lines; instant overlay of profiles

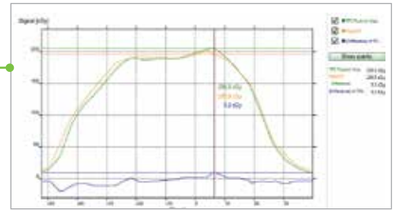


Expandable tool view for additional functionality

Visual Comparison



Isodose comparison



Profile comparison

Algorithms for mathematic comparison

- Global & local gamma
- Quotient, DTA

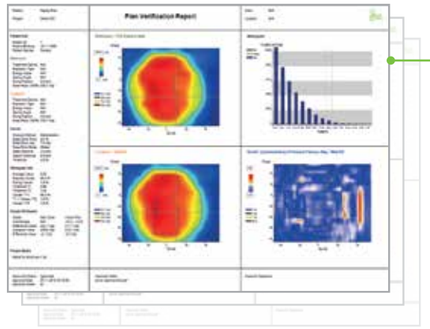
4 Report

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

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

ICC 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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