

RadCalc EPID module

EPID based pre-treatment and in-vivo dosimetry

Fast and accurate

3D EPID dose reconstruction for RT

RadCalc's EPID module for pre-treatment and in-vivo workflows allows for the reconstruction of 3D dose in the patients' anatomy for any IMRT and VMAT plans.

With the acquired EPID images imported, RadCalc uses its collapsed cone algorithm and calculates the dose to the patient CT dataset.

This provides a very accurate evaluation of the intended dose versus the delivered dose in an intuitive 3D comparison.

Simple

RadCalc's EPID module utilizes the collected integrated measurements for all static and dynamic beam segments to reconstruct 3D dose on the patient's real anatomy using RadCalc's Collapsed Cone algorithm.

Thorough QA

In-vivo EPID monitoring to verify patient setup errors, patient anatomy changes and identify machine errors.

Timesaving

Inherent LINAC- EPID automation and integration saves time and effort for data capture.

Inherent sensitivity

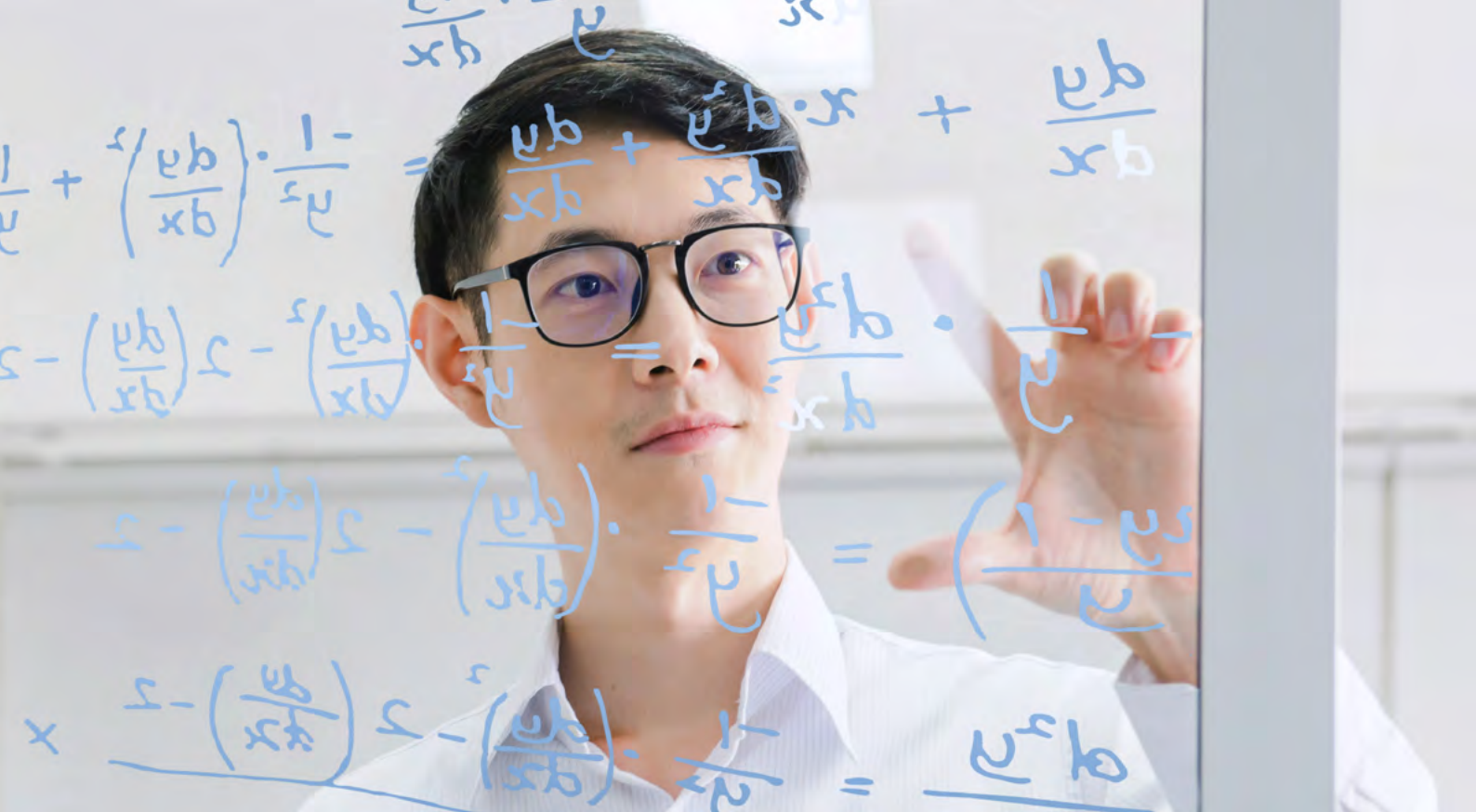
RadCalc's implementation exploits the inherent sensitivity of the EPID to changes in the patient making it a valuable tool for analysing deviations from the intended dose.

True composite

Actual dose delivered is compared with both the intended dose from the TPS and RadCalc's 3D dose reconstruction for a thorough pre-treatment QA.

Easy configuration

Easy installation and fast time to usage. Supports most clinical configurations of TPS, LINACs and supporting systems.



Which hardware is required?

General requirements

Operating system	Microsoft® Windows® 7, 8, 8.1, 10 32-bit and 64-bit operating system
Processor	Intel i5 or equivalent
Memory	4 GB RAM
Video	Minimum resolution 1024 × 768 px and minimum 1 GB video memory (RAM)
Graphics	OpenGL 1.1 support required
Hard drive	10 GB available. Varies with quantity and type of patient data

Recommended dose engine hardware specifications Collapsed Cone module

Operating system	Microsoft® Windows® 8, 10, Server 2012, 2016, or 2019 64-bit operating system
GPU	NVIDIA GeForce RTX 2080 Ti, or similar (Must be NVIDIA)
Processor	Intel Core i7-9700, 8 Core, 12 MB Cache
Memory	16 GB RAM
Hard drive	512 GB SSD

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