



INDEPENDENT X-RAY
QUALITY ASSURANCE

RTI LoniMover

CT Dose profiling made simple

Due to the very wide beam and fixed table in Cone Beam CT, a detector must be moved very precisely through the beam to measure the right parameters.

This can easily be done with the help of the RTI LoniMover™, in combination with a Pencil Ion Chamber or a CT Dose Profiler.

Following the IEC standard IEC 60601-2-44 Ed. 3:A1, the Pencil Ion Chamber can accurately and reproducibly measure the full CTDI for Cone Beams. With the CT Dose Profiler, you will get the FWHM, Geometric Efficiency, and full CTDI with only one measurement through the beam.



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Top: Sweep mode with point dose detector.

Bottom: Step mode with 100 mm pencil ion chamber.

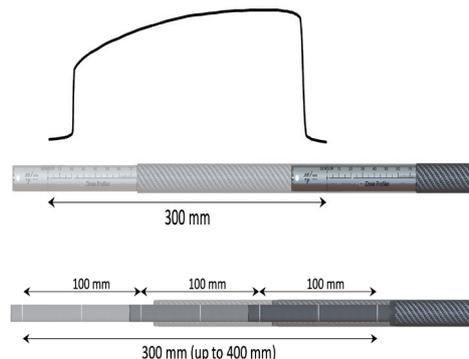
Sweep or Step mode

With the RTI LoniMover™, you can move a detector through any beam no wider than 300 mm. This is ideal to measure on Cone Beam CTs, which are CTs with beam width wider than 40 mm.

In combination with the RTI CT Dose Profiler, it can push the detector through any X-ray field with a selected speed to measure the full dose profile and all interesting parameters, like FWHM and full CTDI.

The RTI LoniMover™ can also use Step mode. This involves moving a Pencil Ion Chamber through the beam in exact steps, according to standard IEC 60601-2-44 Ed. 3:A1, to get accurate measurements and cover up to 400 mm.

Connect with Bluetooth® or cable, and it also has its own triggering device to start the movement, measurement, and the CT at the same time for smooth capturing of the results!



Operating software

The RTI LoniMover™ comes with LoniCT software to handle the operation. The LoniCT software works stand alone with an RTI Cobia FLEX or Cobia SENSE to record measured data as well.

LoniCT software also operates simultaneously with the RTI Ocean software so you can gather all your measured data in your sessions, as well as analyzing, saving, and autogenerating full reports. With this solution, you can use the LoniMover™ with a Piranha and other tools from RTI.

Specifications

Performance

Range:	Up to 300 mm
Speed:	7.5 - 200 mm/s
Speed accuracy:	better than $\pm 0.2\%$
Position accuracy:	better than $\pm 0.1\text{ mm}$

General

Communication:	USB 2.0 and Bluetooth®
Software platform:	Windows
Software (included):	LoniCT (Windows)
Dimensions (LxWxH):	410x48x70 mm
Weight:	850 g
Force:	<20 N
Power:	12 VDC, 5 W (6 W peak)

Environmental

Storage temperature:	-20 °C - 50 °C / 0 °F - 120 °F
Operating temperature:	normal indoor temperatures