



INDEPENDENT X-RAY
QUALITY ASSURANCE



LoniMover | Specifications

CT Dose profiling made simple

A smooth capture of results

Due to the very wide X-ray beam and fixed table in Cone Beam CT, the detector must be moved precisely through the beam to measure the relevant parameters.

The LoniMover™ makes this process simple and accurate when used with the RTI CT Ion Chamber or RTI CT Dose Profiler on axial scans.

In accordance with IEC 60601-2-44 Ed. 3, the RTI CT Ion Chamber enables accurate and reproducible measurements of full CTDI for Cone Beam CT. When used with a CT Dose Profiler, the LoniMover™ provides FWHM, Geometric Efficiency, and full CTDI in a single pass through the beam.

LoniMover™ is a cooperation between RTI Group and LoniTech AB.

RTI CT Dose Profiler



RTI CT Ion Chamber

General Specifications

Range	Up to 300 mm
Speed	7.5 - 200 mm/s
Speed accuracy	Better than $\pm 0.2 \%$
Position accuracy	Better than $\pm 0.1 \text{ mm}$
Communication	USB 2.0 and Bluetooth®
Software platform	Windows
Software (included)	LoniCT (Windows)
Dimensions	(L x W x H): 410 x 48 x 70 mm
Weight	850 g
Force	<20 N
Power	12 VDC, 5 W (6 W peak)
Storage temperature	-20 °C - 50 °C / 0 °F - 120 °F
Operating temperature	Normal indoor temperatures



Specifications in this document may be changed without notice.

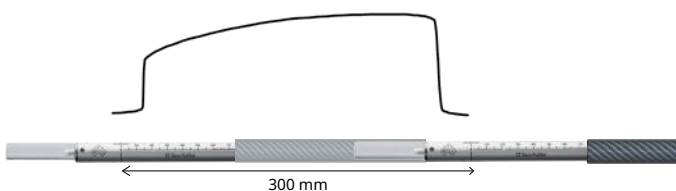
Sweep or Step mode

In **Sweep mode**, the RTI LoniMover enables precise detector movement through X-ray beams up to 300 mm wide, making it ideal for wide beam CT applications with beam widths exceeding 40 mm.

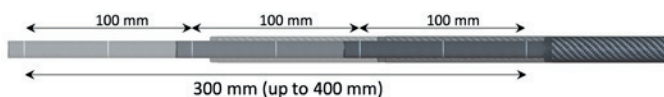
Combined with the RTI CT Dose Profiler, the LoniMover moves the detector through the X-ray beam at a selected constant speed, capturing the complete dose profile and key parameters such as FWHM and full CTDI.



In **Step mode**, the LoniMover moves a CT Ion Chamber through the beam in precise increments, in accordance with IEC 60601-2-44 Ed. 3. This enables accurate, reproducible measurements covering beam widths up to 400 mm.



Sweep mode with point dose detector on an axial scan.



Step mode with 100 mm CT Ion Chamber.

Operating software

The LoniMover™ comes with LoniCT software for easy operation and control. LoniCT can also be used as a standalone application with RTI Cobia FLEX to record measurement data.

LoniCT works seamlessly alongside RTI Ocean Next™ software, allowing you to collect, analyze, and save measurement data, as well as automatically generate comprehensive reports.

This integrated workflow enables the LoniMover™ to be used with RTI Mako, Piranha, and other compatible RTI solutions, providing flexibility for your CT quality assurance measurements.