BeamCheck

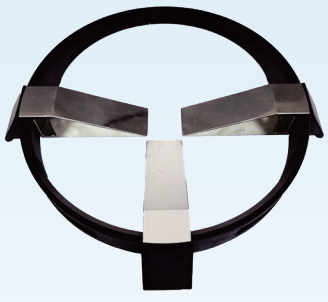
RAYDOSE®

All in BeamCheck

- More efficient workflows
- More precise analysis results
- More flexible measurement settings

BeamCheck supports the following procedures:

Procedures			
Center	**Geometry**	**Dose Characteristics**	**Evaluation**
Point Dose	Size	Flatness	Mean Deviation
Field Center Deviation X/Y	Field Edge -/+	Symmetry	Gamma
Wedge Factor	Penumbra -/+	PDD_{10}	Leaf Position Pass Rate
	Central Leaf Position	PDD^{20}_{10}	
	Leaf Average Position -/+	R_{50}	



BeamCheck Wedge

BeamCheck Fixture

BeamCheck is suitable for monthly checks of LINAC and also helps users with mechanical inspections and post-repair commissioning.

Ion Chamber Quantity: 759
Field Size: 30cm x 30cm
Max Axis Range (X/Y): 31.4cm x 31.4cm

X-axis(Dual-layer arrangement)**: 157 ion chambers;**
Y-axis(Dual-layer arrangement)**: 150 ion chambers.**
Used for measuring output, flatness, symmetry, etc.
Ion chamber spacing = 2mm(center to center)

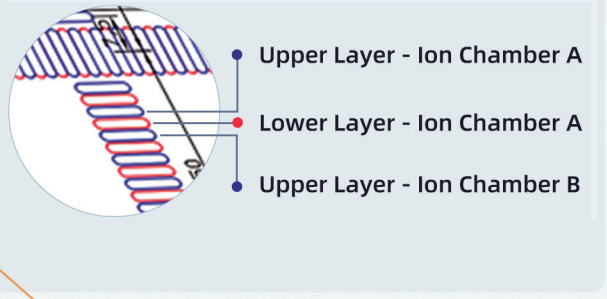
Four columns(Y1,Y2,Y3,Y4;Dual-layer arrangement):
Each column has 104 ion chambers:
Used for measuring leaf positioning accuracy.
Ion chamber spacing=2.5mm
(center to center)
MLC measurement accuracy=1mm

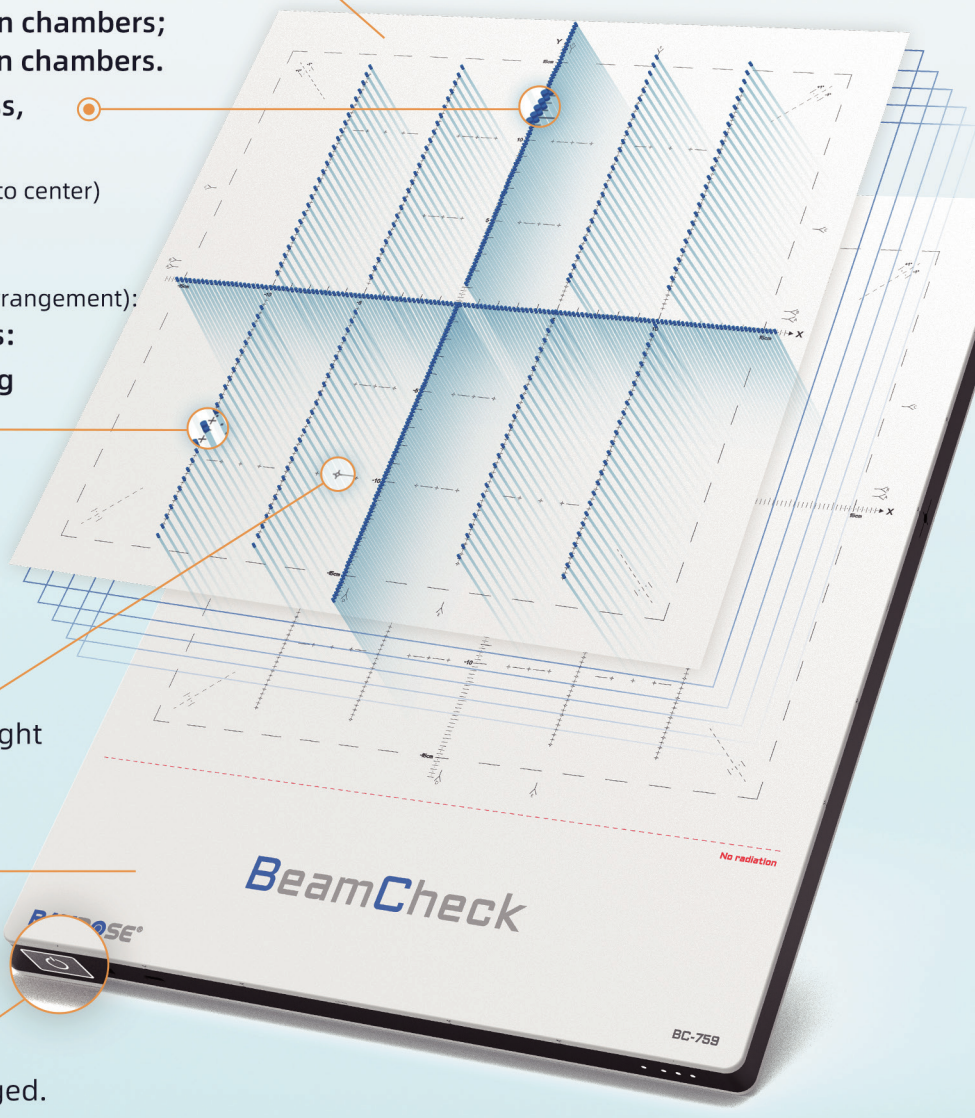
10cm × 10cm & 20cm × 20cm
Total of 36 ion chambers on the boundary:
Used for checking coincidence of light field and radiation field.

Built-in battery, no external power supply required during measurement.

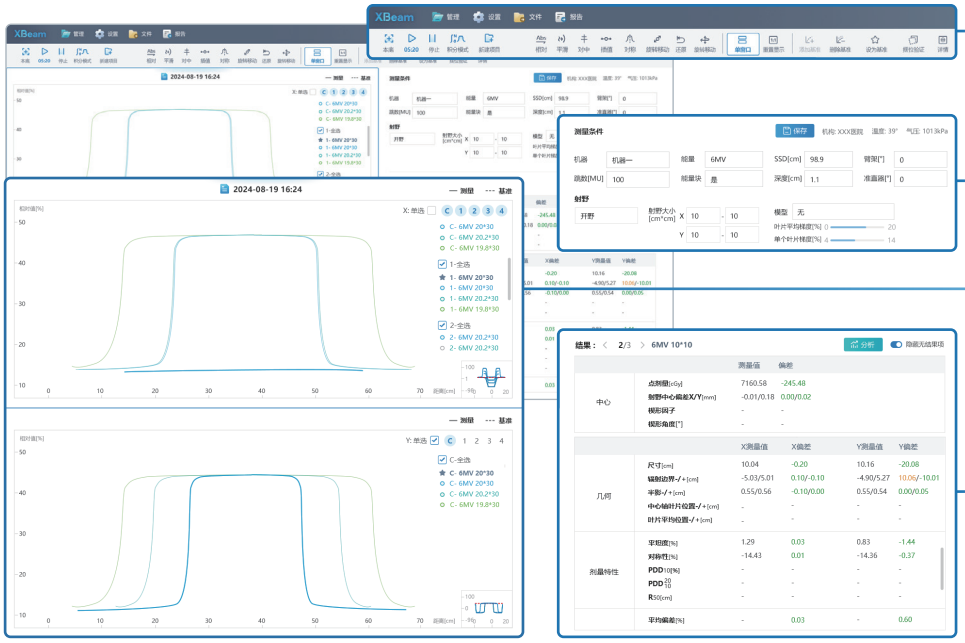
Charges via Type-C interface, providing up to 9 hours of continuous usage when fully charged.

Ion Chamber Dual-Layer Arrangement





XBeam: BeamCheck software



Toolbar

One-click operation, convenient and efficient.

Measurement Conditions

Set anytime, start measurement freely.

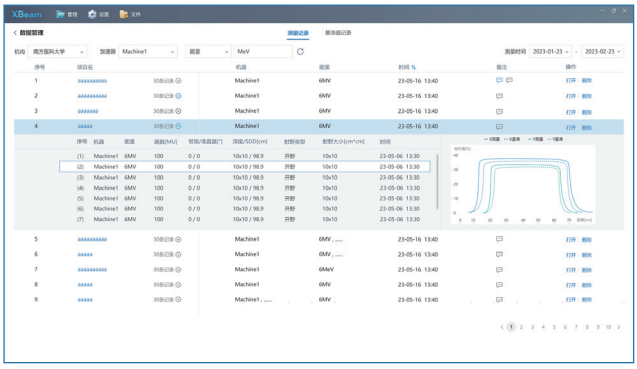
Ion Chamber Measurement Curve

Real-time monitoring, intuitive display.

Analysis Result Area

Four Core Functions

- **Project-Based Management**
  Measurement tasks are categorized by time, ensuring clearer data management and easier tracking.
- **Real-Time Analysis**
  Instantly generate measurement curves for an intuitive display, aiding quick decision-making.
- **Custom Measurement Settings**
  Flexibly adjust measurement conditions to suit different equipment and QA processes.
- **Comprehensive Reports**
  Provides detailed measurement data analysis and reports covering 17 key indicators.



Technical Parameters

Detector Type **Ion chamber**	Detector Quantity **759**	Detector Volume **0.051cm³**	Detector Spacing **2mm(Min)**
Nominal Sensitivity **2.2nc/Gy±0.2nc/Gy**	Field Size **30cm×30cm**	Repeatability **≤±0.5%**	Non-linearity **≤±0.5%**
Dimensions (L×W×H) **435mm×341mm×22mm**	Weight **5kg**		