



GIRAFFE & ZEBRA

Commissioning and Machine QA

180 measurement points in one shot
for high accuracy and speed

PARTICLE THERAPY QA

PROTECT +
ENHANCE +
SAVE LIVES

Machine QA

Giraffe

For single-spot & bragg peak measurements

Electrode: 12 cm large diameter

- Reconstruct the bragg peak for a single-spot within seconds
- Instant absolute range verification for weekly & monthly QA

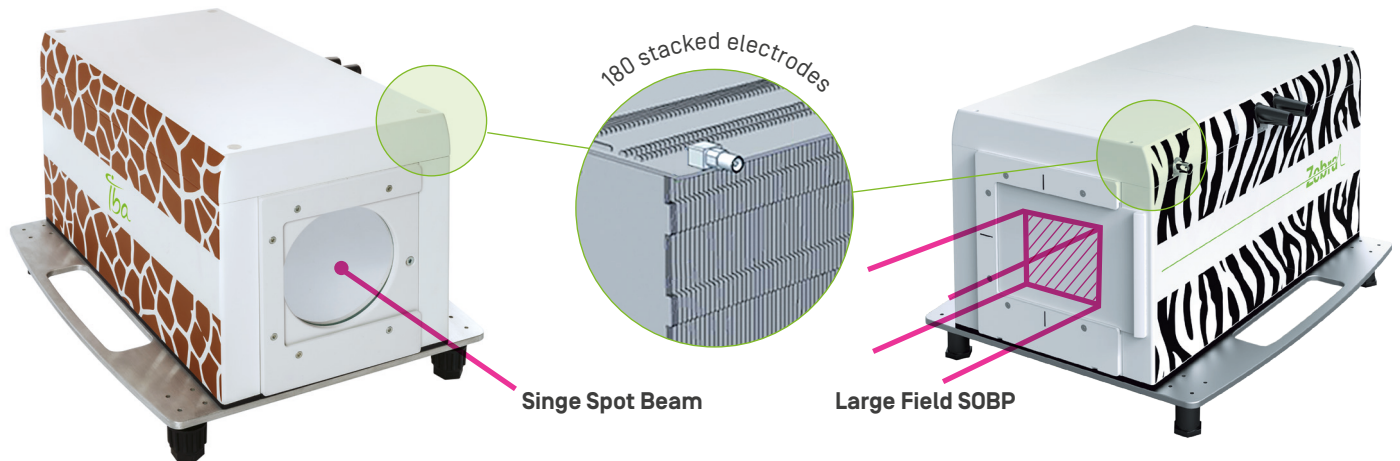
Commissioning and Machine QA

Zebra

For scanned monolayer & SOBP checks

Electrode: 2.5 cm small diameter

- 3x faster commissioning vs. single detector measurements
- Save up to three hours for scanned beams compared to a single SOBP reconstruction using a water tank
- Acquire monolayers and dose cubes with a single irradiation



|| One important device you really need to have in a Proton Center is a Zebra. It makes your life much easier because it measures a PDD Bragg peak and SOBP much quicker than with a water phantom. The Zebra helps to significantly reduce your commissioning time.

Dr. Ding, Lead Medical Physicist, Proton Beam Therapy at William Beaumont Health System



Giraffe & Zebra

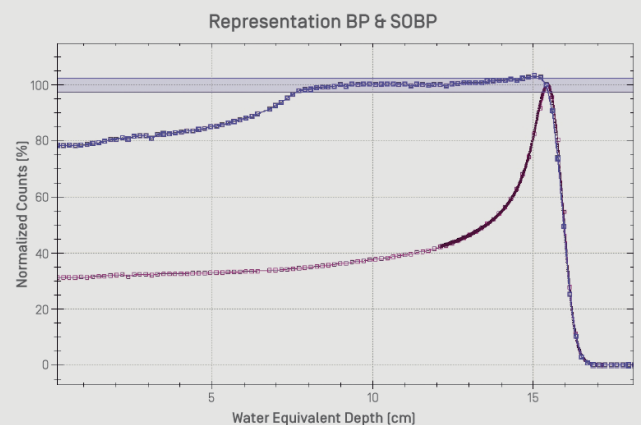
Key Benefits

- Instant absolute range verification for monthly and annual QA
- Water-equivalent material for equivalent scattering properties
- Verify the TPS library periodically without setting up your water tank
- Measurements at any angle supported (not possible with water tank)

Technical Specifications

- Measure ranges with an accuracy of 0.5 mm compared to measurements in water (Bortfeld fit)
- Verify the full clinical range up to 230 MeV
- 43.9 cm [L] × 19.5 cm [H] × 17.5 cm [W]
- 180 chambers with 2 mm pitch (1 mm pitch supported with WET cover and automatic software reconstruction)

Consult your IBA Dosimetry Expert for a detailed presentation of Zebra and Giraffe



Click / Scan to watch the Zebra video

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DOSIMETRY

