

A NEW HANDY WAY TO IMPROVE YOUR PARTICLE THERAPY QA

Q360

✓ WHAT?

Q360 is the novel breakthrough particle detector for beam intensity and profile measurement, specially designed for the full characterization of large clinical radiation fields.

✓ WHERE?

Q360 is conceived to be placed at the isocentre, appropriately fixed on the treatment couch or on a dedicated gantry mechanical support, thus providing results at different beam entrance angles.

✓ WHEN?

Q360 is perfect both for quality assurance procedures and beam characterization tests. It allows for the acquisition of beam position, profile and intensity with one single beam shot.

The finest resolution for the largest radiation fields

✓ WHO?

Q360 is aimed at all medical and accelerator physicists requiring an accurate, reliable, all-in-one device. Due to its large sensitive area, it is ideal for pencil beam scanning of wide treatment fields.

✓ HOW?

Q360 is composed by X and Y strip ionization chambers for high precision beam profile measurements and two integral chambers for redundant beam intensity measurements. Its innovative design allows it being installed on any vendor particle beam nozzle.

✓ WHY?

Q360 is the unique all-in-one device in the market with a huge signal to noise ratio and a universal set-up. It includes dedicated software and embedded power supply and control units.

Full particle beam characterization at any gantry rotation angle

TYPE OF DETECTOR	Air vented ionization chamber
NUMBER OF CHANNELS	255 X strips and 255 Y strips + 2 integrals
TOTAL SENSITIVE AREA	408 mm x 408 mm
CHAMBER AIR GAP	2 mm
PITCH	1.6 mm
REPEATABILITY	> 99%
MAXIMUM RAW DATA ACQUISITION RATE	1 kHz (parallel read-out of all the channels)
DATA COMMUNICATION	Ethernet TCP/IP

ALL COLORS OF INNOVATION



HIGH PRECISION
PARTICLE DETECTORS
TAILORED TO YOUR NEEDS