Daily QA™ 3

Daily Beam Quality Analysis in One Measurement

SUN NUCLEAR
A MIRION MEDICAL COMPANY

Fast, Accurate Daily Checks

Daily QA™3 sets the standard for efficient and powerful routine QA. A single beam measurement results in five beam quality checks. Accepted data is automatically written to a SQL database in real time, where it is available for trending, review and analysis.

Fast Daily Checks of Energy Constancy, Beam Quality

- After daily test beam delivery see results for: dose output, beam flatness, beam symmetry, beam energy, light-radiation field coincidence, shape constancy, and field size shift for FFF

Efficient, Independent Beam Delivery Error Detection

- Daily test templates are easy for physicists to setup and handoff to therapists
- Fast and simple set up
- Rotational and FFF beams are supported, with no warm-up or pre-irradiation needed, and no additional trips to the vault
- Power Data Interface (PDI) managed through single-cable architecture
- Wireless option available – eliminates cable connections by using rf connections

SunCHECK Integration

- Direct connectivity with SunCHECK™ Platform for efficient Daily QA
- Pre-configured TG-142 tests, tolerances and categories
- Safety, MLC and imaging tests reside in same database
- Connect device and data is collected automatically (no manual entry)

MR-compatible version available

Daily QA 3 Software

After a measurement is accepted, all collected data is saved for analysis and reporting. Recording data will also initiate the next test. Users can conduct a new test, scheduled or unscheduled, at any time and data is saved in the database.

Daily QA 3 software provides a graphical presentation of data for each template. Users have the option to choose which data parameters to view and over what period to view them. A single measurement instance can be examined by clicking on a data point which corresponds to a particular measurement.
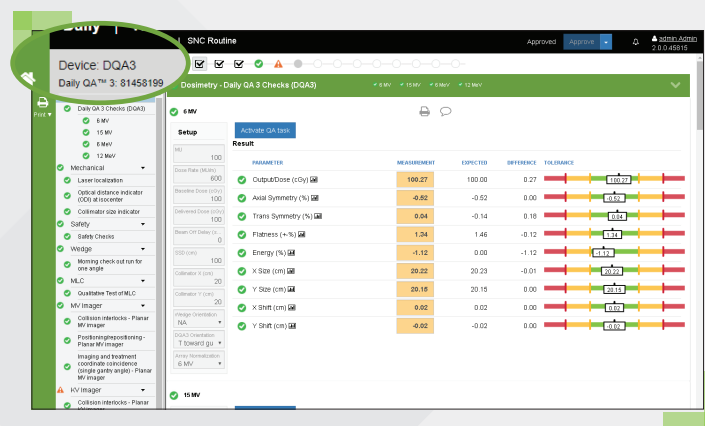
INTEGRATION

Integration with the SunCHECK™ Platform

The SunCHECK Platform has direct device connectivity and control to Daily QA 3 supporting out-of-the-box coverage of all your Daily QA needs.

Smarter Daily QA

TG-142 pre-set templates streamline Daily QA. Simply connect your Daily QA 3 device for automated data collection – no transfer of information needed! Templates are provided by modality and can be easily customized to fit your needs.


Specifications

Beam Parameter Chambers (4)

Field Size Diodes (12)

Power/Data Input

Status Indicators

CAX Chamber (1)

Photon Energy Chambers (4)

Wireless Option

Detector Type:	SunPoint® Diode Detectors Vented Ion Chambers
Detector Spacing: (mm)	Diodes: 5.0
Chamber Active Volume: (cm³)	Electron: 0.6 Photon: 0.3
Field Size: (cm)	20 x 20
Inherent Buildup: (g/cm²)	Chambers: 1.0 ± 0.1
Inherent Backscatter: (cm)	2.3
Electron Energy Attenuation:	Air, Cu, Al, Fe
Radiation Measured:	Electrons, 4 MeV to 25 MeV Photons, Co-60 to 25 MV
Rf Frequency (rf-Daily QA 3): (GHz)	2.400 to 2.485
Operating System:	Windows 10 or Windows 11 Professional
Dimensions: L/W/H (cm)	40.8 x 25.6 x 4.6
Weight: (kg)	5.7
Number Of Connection Cables:	Single power / data cable

Optional Accessory

Use the IMF to position the Daily QA™ 3 or rf-Daily QA™ 3 at isocenter and measure at any gantry angle.

IMF™
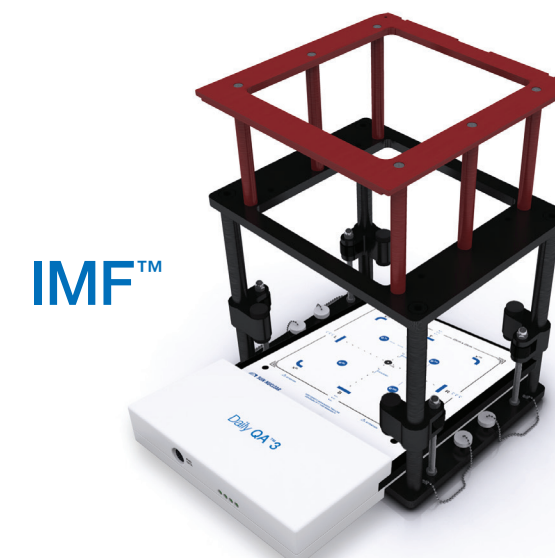
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