SUN NUCLEAR corporation

CHECKMATE 2™

Simple and Reliable Daily QA

A therapy beam constancy meter intended for simple radiation output checks.

The CHECKMATE 2 Advantage

- Simple to use
- Cost effective solution
- Automatic temperature and pressure correction
- Accurate measurement of:
  - CAX output
  - Repeatability
  - Monitor chamber linearity
- Built-in rechargeable batteries
  - Safely keep cables off the treatment floor

Hardware

- Single vented ionization chamber at a depth of 1.0g/cm²
- Precision alignment template with light field markings at 10 x 10cm and 20 x 20cm
- Large, easy to read display
  - Easily viewed at the control station bunker monitor
- User calibration
  - Stores up to 15 calibration values
  - Automatic memory position advance

Process

1 STEP Turn on the power switch.

2 STEP Place CHECKMATE 2 on the treatment couch and align the crosshairs and the light field to the instrument template.

3 STEP Expose CHECKMATE 2 to the beam.

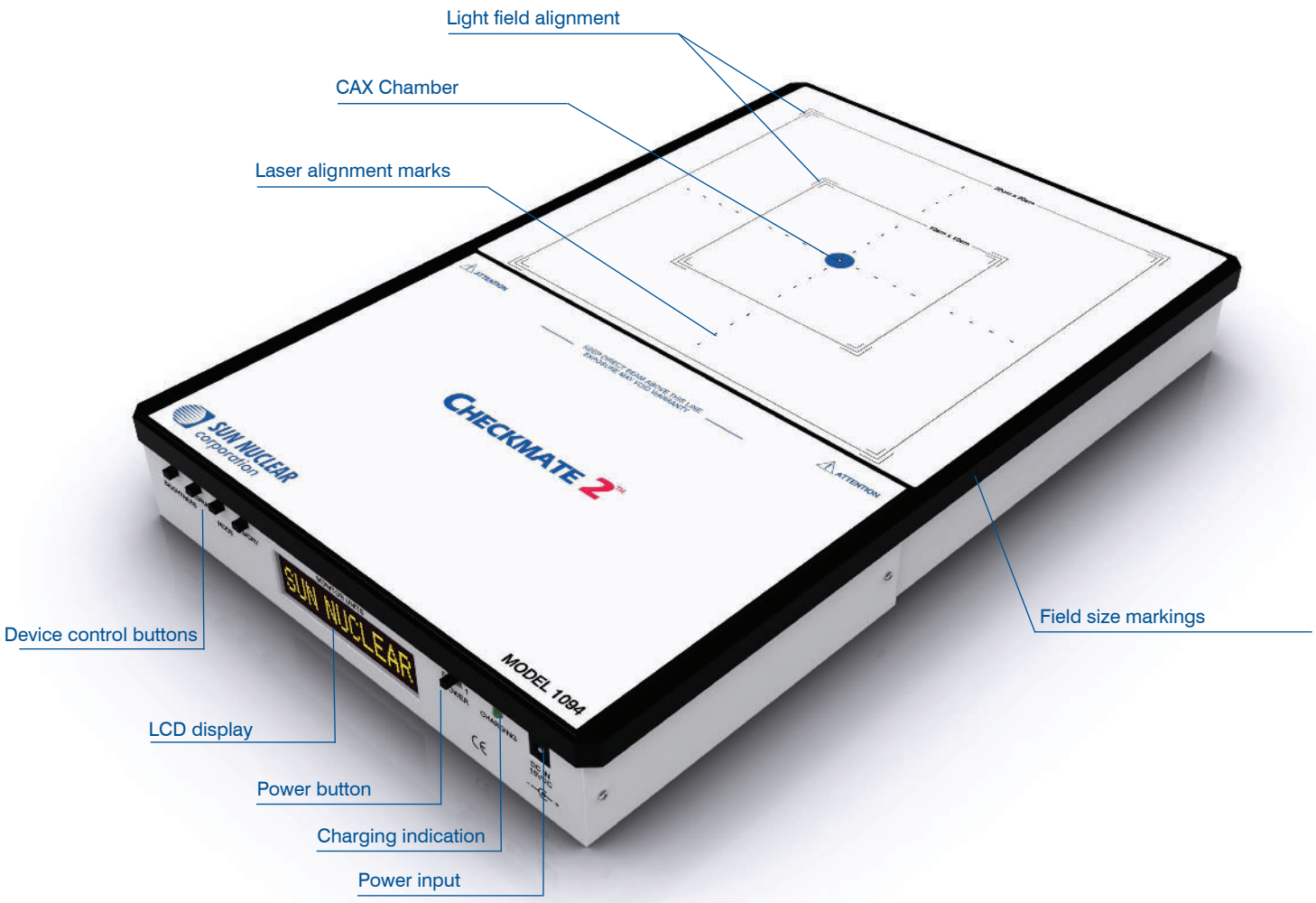
4 STEP Read the measured dose on the numeric display on the end of the instrument.

The numeric dose value displayed indicates the percentage of the stored calibration value. The displayed value can be viewed on the bunker monitor or directly by entering the vault.

Rt ROUTINE

Your Most Valuable QA and Dosimetry Tools

Features and Specifications



Detector type:	Vented Ion Chamber
Detector quantity:	1 - CAX
Detector volume (cm^3):	0.6
Field size (cm):	20.0 x 20.0
Inherent buildup (g/cm^2):	1.0 ± 0.1
Inherent backscatter (cm):	Acrylic, 3.6
Radiation measured:	• Electrons, 6MeV to 25MeV • Photons, Co-60 to 25MV
Beam limits:	• Max. dose per pulse: 3.65cGy • Max. avg. dose rate: 3410cGy/min

Short-term reproducibility:	0.2%
Long-term reproducibility:	0.5%/year
Temperature / Pressure correction:	Automatic
Calibration factor memory positions:	15
Display units:	Percent of calibration value; set by user
Display range:	0.1% to 999.9%
Dimensions / Weight:	25.5 x 40.0 x 5.5cm/4.9kg
Battery operation:	8 hours minimum
Number of connection cables:	Power charger for internal batteries

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