

TRACKER™

Introduction

The TRACKER Therapy Beam Evaluation System, Model 90100, is a quality assurance system that measures high energy accelerators and ^{60}Co dose and dose rate, enabling user calculation of beam constancy, flatness, and symmetry. The system consists of the Model 35300A detector and Model 35360A display.

The Model 35300A TRACKER detector array incorporates four orthogonally-placed ion chambers on a 10 cm radius from a fifth isocentrally-located ion chamber allowing ratio-to-center dose measurement. Each ion chamber, which is identical to the others and vented to the atmosphere, is a circular, parallel-plate configuration and is fully guarded for low leakage. The entrance surface indicates ion chamber locations for alignment with a therapy beam light field system. The Model 35360A TRACKER display contains five electrometers and a microprocessor-controlled, 4-line by 20-character, vacuum fluorescent display (VFD) that provides excellent readability of dose and dose rate measurements in virtually any lighting condition.

Applications

The TRACKER Therapy Beam Evaluation System performs quality assurance tests for linear accelerators and ^{60}Co . The system's quick setup and operational ease make it ideal for daily checks of beam constancy, symmetry, and flatness.

A five-channel electrometer enables measurement of dose or dose rate in either absolute or ratio-to-center. Dose measurement values may be displayed in units of R, rad, Sv, or Gy. Dose rate measurement values may be displayed in units of R/min, rad/min, Sv/min, or Gy/min.

The TRACKER System may be operated from either AC line power or from its high capacity internal battery. The battery is charged automatically when the unit is connected to AC line power, either during use or when idle.

Consulting physicists and service engineers will appreciate the TRACKER System's portability. An optional carrying case eases transport and storage. Other optional accessories include buildup plates and a buildup retaining hardware kit.



Features

- Measurement values from peripheral ion chambers displayed in either absolute dose measurement units or as percentage of center ion chamber's measurement value
- Microprocessor-controlled, 4-line by 20-character VFD displays measurement results directly in user's choice of radiological units corrected for air density
- Precision five channel electrometer provides $\pm 0.03\%$ linearity
- High performance rechargeable system allows eight hours of continuous operation from a three-hour charge
- Low battery annunciator indicates when < 30 minutes of operation remains
- Levels of internal 300 V electronic bias supply and rechargeable battery supply are continuously monitored
- Annunciators indicate abnormal bias or low battery voltage

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