

GAMMA CALIBRATION SYSTEM

Gemini specialize in the supply of Secondary Standard Dosimetry Systems. We have designed, manufactured and commissioned a significant number of Gamma Calibration Systems. As well as numerous upgrades, to both mechanical and control systems.



Gamma Exposure Unit

- Lead shielded steel casing and heavy-duty steel pedestal.
- Tungsten fail-safe gamma shutter unit.
- Multi-ring Tungsten/lead collimator.
- Multi-source cassette with motor driven spindle assembly.
- Optional Americium exposure unit front mounted.
- Size of exposure unit can be re-calculated to meet the source requirements of the customer.
- Maximum activity source activity in model shown is 80TBq Cs-137 & 6TBq Co-60



Track & Trolley Unit

- Modular Al Alloy framework with precision engineered components.
- Precision linear actuators used on X, Y and Z axes.
- The rotational axis is driven via a precision bearing arrangement.
- Energy chain used on X and Y axes for tidy/stress free transportation of cables.
- Multiple options for trolley power outlets.
- Lengths, widths and heights can be modified to meet the requirements of the customer.



Control System

- The Exposure unit is controlled via a Windows 10 based software system, its main features include:
- Certificate issued for each instrument calibrated.
- In-cell control of video equipment and screen grab display of camera in top corner of monitor.
- Radiological status supplied on monitor screen.
- Full control of safety interlock system.

