

GammaMat SE

Designed for unparalleled handiness, the GammaMat SE gamma projector offers unique and unrivalled portability not found in other systems.

This rugged, light-weight and easy-to-use gamma projector uses Selenium-75 (Se-75) as its radiation source. Se-75 provides greatly improved image quality over other isotopes commonly used, a longer half-life and simplified radiation protection due to its lower gamma energy. Compared to projectors that use higher energy gamma sources, the GammaMat SE loaded with a Se-75 radiation source can be safely used in smaller controlled test areas. All of these features result in substantial cost savings to the user.

Higher Image Quality using Selenium-75

Se-75 provides significantly higher image quality than Ir-192 imaging systems. The gamma ray spectrum of Se-75 ranges from 66 keV to 401 keV, with two lines of high intensity at 136 keV and 265 keV dominating this spectrum. These radiation characteristics are between Yb-169 towards the lower energies and Ir-192 towards the higher energies. The wide gamma spectrum of Se-75 makes it an ideal choice for gamma radiography, especially for a steel wall thickness in the range of 5 mm to 30 mm (0.2 in to 1.18 in).

Safety – Always a Priority

A bright green/red indicator, showing whether the source is in the safe position, is clearly visible from a distance. In addition, the unique securing mechanism of the GammaMat SE detects and then indicates when the source capsule has been safely returned to its secure position.



Features

- Highly Portable Se-75 Gamma Ray Projector
- Improved image quality using Se-75 as its gamma source
- Meets or exceeds ISO 3999-2000, class P, category 2
- Weighing only 7.2 kg (15.9 lb) and able to be loaded with a 4.44 TBq Se-75 source, the GammaMat SE is your obvious choice for radiography work.

Regulatory Approvals

The GammaMat SE gamma ray projector using Se-75, is designed to meet or exceed the latest versions of various national and international safety standards, including ISO 3999:2000.

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GammaMat SE Specifications

- **Source:** Selenium-75 (Se-75)
- **Activity:**
 - Type A : 3.81 TBq (82 Ci)
 - Type B : 4.44 TBq (120 Ci)
- **Half-life:** 119.8 days
- **Surface Dose Rate:** Maximum 2.0 mSv/h
- Meets or exceeds ISO 3999:2000, class P, category 2
- **Depleted Uranium Weight:** 2.7 kg (6 lb)
- **Total Weight:** 7.2 kg (15.9 lb)
- **Dimensions:**
 - Length: 220 mm (8.66 in)
 - Width: 100 mm (3.94 in)
 - Height: 175 mm (6.89 in)

Accessories

- Remote controls cables: 5, 10, 15 meters (5.5, 11, 16.5 yards)
- Guide tubes: 1, 2, 3, 5, 10 meters (1.1, 2.2, 3.3, 5.5, 11 yards)
- Collimators: 60°, 90° and 360°
- Special low-weight tungsten collimators for panoramic and directional beam applications
- Close Proximity Collimator, allowing radiography sessions without interfering with other operations (no down time, increased productivity)
- A wide variety of accessories for various applications are also available.
- Please contact your Best NDT sales representative for a complete listing.

Available Models	Max Loading	Total Weight
GammaMat SE TYPE A	3.00 TBq (80 Ci) Se-75	7.2 kg (15.8 lb)
GammaMat SE TYPE B(U)	4.44 TBq (120 Ci) Se-75	7.2 kg (15.8 lb)

Notes:

- TBq is terabecquerel, or 10¹² Becquerel
- Ci = 0.037 TBq
- 1 mSv = 0.001 Sv

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