

Scientific Production Company "Doza"

Calibration equipment

Radiation control equipment



UPG-P: Desktop Gamma beam irradiator

Calibration of gamma dose and dose rate meters.

Calibration of:

- Ambient equivalent dose $H^*(10)$ meters (Sv, Sv/h)
- Personal equivalent dose $H_p(10)$ meters (Sv, Sv/h)
- Exposure dose X meters (R, R/h)
- Two sources in irradiator
- Select source and collimator opening using tumbler

Physical characteristics

Range of reproduced dose rate:

- $0.5 \mu\text{Sv/h} \div 1.0 \text{ mSv/h}$ ($50 \mu\text{R/h} \div 100 \text{ mR/h}$)

Sources activities:

- $6 \times 10^6; 6 \times 10^8 \text{ Bq}$ (0,2; 20 mCi) Cs-137

Overall dimensions:

- 1250×400×300 mm

Irradiator weight:

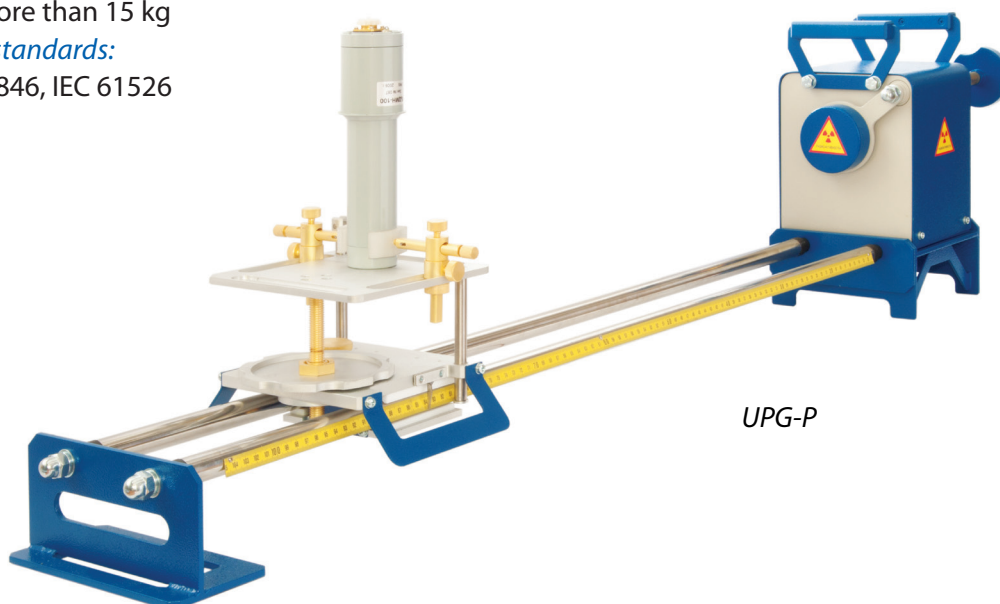
- Not more than 37 kg

Calibration bench weight:

- Not more than 15 kg

Reference standards:

- IEC 60846, IEC 61526



UPG-P

UPGD-2M-D: Gamma beam irradiator

Calibration of gamma dose and dose rate meters

Calibration of:

- Ambient equivalent dose $H^*(10)$ meters (Sv, Sv/h)
- Personal equivalent dose $H_p(10)$ meters (Sv, Sv/h)
- Exposure dose X meters (R, R/h)
- Four sources in irradiator
- Select source and move to working position/return to storage position using special rod
- Transfer container for temporary storage of sources
- Red light signal of source working position

Physical characteristics

Range of reproduced dose rate:

- $0,5 \mu\text{Sv/h} \div 50 \text{ mSv/h}$ ($50 \mu\text{R/h} \div 5 \text{ R/h}$)

Maximum activity of source:

- $2 \times 10^{11} \text{ Bq}$ (5.0 Ci) Cs-137

Overall dimensions:

- Irradiator: 800×500×500 mm
- Guide rails length: 3.0 m
- Height: 1.6 m
- Weight: not more than 700 kg
- Required room dimensions: not less than 7x3x3 m

Electrical characteristics

Power supply:

- 220 V, 50 Hz

Reference standards:

- IEC 60846, IEC 61526, IEC 61066



UPGD-2M-D



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