

# CMS60D<sup>AND</sup> CMS60XD

HAND-FOOT-CLOTHES MONITORS



Hand-Foot-Clothes Monitors CMS60D and CMS60XD are required instruments for operator check in Nuclear Medicine, Radiochemical labs and each area with possibility of beta-gamma radioisotope contamination.

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#### Main technical characteristics are:

- High surface detectors:  
**CMS60XD** n. 2 (1000 cm<sup>2</sup> each) RXD 1000T and n. 1 (270 cm<sup>2</sup>) RXD 270 Xe proportional detectors  
**CMS60D** n. 5 (250 cm<sup>2</sup> each) GM tube detectors
- Graphic LCD with digital indication of the measure for each channel. Measure unit can be set in cps or Bq/cm<sup>2</sup> (with isotope selection from keyboard)
- Automatic measure cycle: operator selection, isotope selection, hands and feet measure, clothes measure
- Operator database. Each operator is privately profiled: this allow the system to work with individual magnetic cards (optional)
- Measures archive. Each measure record contains the following information: operator, measure date and time, alarm status for each detector, measure value and error for each detector, selected isotope. The archive can be downloaded via Ethernet or RS232 connection
- Automatic background subtraction: the system measures the background with configurable period and duration.  
The measure algorithm excludes incidental peaks not related to background activity such as radioactive syringe passages
- Automatic detector power off after every measure
- Isotopes database (default isotopes are: Tl201, Tc99m, Ga67, Co60, I131, I125, F18, Co57, In111, I123)
- Alarm thresholds are configurable for each isotope
- Software with n. 3 configurable languages (Italian, English, French)

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High tech, high care

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## CMS60D (Image 1)

- Detectors: 5 GM tubes with wide-surface front window
- Detecting surface: 250 cm<sup>2</sup> each - (1.250 cm<sup>2</sup>) total
- Window thickness: 14 mg/cm<sup>2</sup>
- Window material: Aluminium
- Lower energy limit: 10 KeV for gamma  
150 KeV for beta
- Statistic Error:  $\pm 15$  %.

## CMS60XD

- Detectors: Proportional detectors with Xe:
  - 2 RXD 1000T detectors with n. 2 channels each
  - 1 RXD 270 detector (for clothes) (Image 3)
- Detecting surface: RXD 270 | 270 cm<sup>2</sup>  
RXD 1000T | 1.000 cm<sup>2</sup>
- Window thickness: 6.75 mg/cm<sup>2</sup>
- Window material: Titanium

## FOR BOTH MODELS

- Display: 17" LCD Monitor with indication of each measure channel (Image 2)
- Power supply: 110-220 Vac
- Frequency: 50-60Hz
- Power consumption: 60 W
- Dimensions: 45(w) x 95(d) x 150(h) cm
- Weight: 65 Kg
- Measurement time: Adjustable between 1 and 99 seconds
- Options: Individual magnetic card (personal badge):  
system can be equipped with a card reader.  
Card is used to identify the operator and start the measure



1



2



3

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