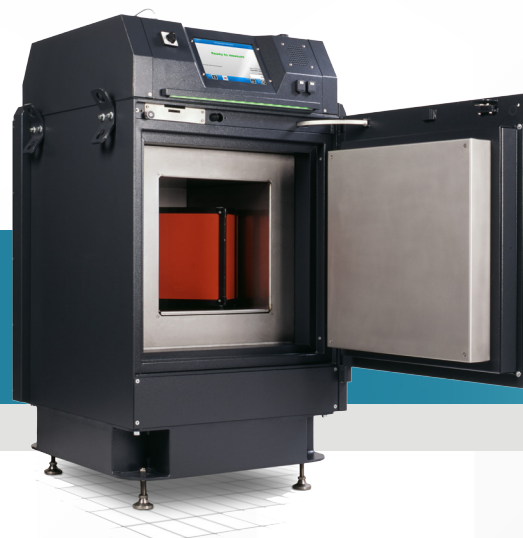




TOM

Tool & Object Monitor



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The tool & object monitor TOM is designed to check for radioactive contamination of small items as tools, bags or technical devices after use in controlled areas.

The 80 litre measurement chamber is loaded through a front door. Goods are removed through the exit door, while an interlock system prevents removal of contaminated goods. TOM is equipped with the robust and highly sensitive Mirion fibre detectors.

Many optional accessories allow to customize the monitor according to local requirements.

KEY FEATURES

- 80 litres measurement chamber
- Up to 6 Mirion GammaFibre™ detectors with particularly high sensitivity
- Templates for varying measurement tasks can be easily applied by drag & drop
- Robust design - high throughput
- Operates in single and two door mode with interlock functionality
- Uninterruptible power supply
- Network connection & CeMoSys™ interface
- 10.4" touchscreen (second screen optional)
- Optional scales for automatic selection of measurement parameters

Health Physics

FUNCTIONALITY

TOM is by design intuitive to use. In the CPS-Mode (counts per second mode) the system will measure directly after loading of the measurement chamber without any input needed. The result indication is in cps in this mode. Usually measurements are based on calibrations of appropriate measurement materials which have to be defined afore. After loading of the measurement chamber and selecting a suitable calibration set, the measurement is performed based on the selected parameters. After the measurement, an overview of the result can be displayed on screen; detailed analysis of the measurement result is possible on screen as well as on a printed hardcopy.

The status and alarm conditions are clearly indicated by both changing color LED strips on entrance and exit side and a touchscreen (second screen optional).

TOM features a full 4- π lead shielding for an optimal performance also in challenging background conditions. It comes standard with 4 Mirion GammaFibre™ detectors, located on top, bottom and both sides. It can be additionally equipped with one GammaFibre™ detector per door for even lower detection limits.

MIRION FIBRE TECHNOLOGY

The state-of-the-art Mirion GammaFibre™ detector technology has been developed for the highest performance requirements: the scintillating fibre detectors feature the industry's lowest area of dead zones. The homogeneity and high sensitivity across the entire detector area result in very low detection limits with short measurement times at the same time.

TECHNICAL SPECIFICATION

Dimensions (outer/inner)	845 x 800 x 1200 / 500 x 400 x 400 (depth x width x height in mm)
Standard loading height	415 mm
Detectors	4 to 6 GammaFibre™ detectors
Detection limit (Co-60)	40 Bq; 30s
Standard lead shielding	25 mm
Energy range	50 keV - 2 MeV

> GERMANY - HAMBURG

T: +49 40 85193 0 | F: +49 40 85193 256 | E: info-de@mirion.com

> USA - SMYRNA, GEORGIA

T: +1 770 432 2744 | F: +1 770 432 9179 | E: info-us@mirion.com

> FRANCE - LAMANON

T: +33 490 595959 | F: +33 490 595518 | E: Info-fr@mirion.com

> FINLAND - TURKU

T: +358 2 4684 600 | F: +358 2 4684 601 | E: info-fi@mirion.com

> CHINA - SHANGHAI

T: +86 21 6180 6920 | F: +86 21 6180 6924 | E: info-cn@mirion.com



OPTIONS

Scales for goods up to 50 kg

Additional GammaFibre™ detector in each door

Second display on exit site

Lead shielding upgrade to 50 mm

Work table platform (loading height 570 or 750 mm)

Since norms, specification and designs are subject to occasional change, please ask for confirmation of the information given in this publication.

Copyright (c) 2016 Mirion Technologies, Inc. or its affiliates. All rights reserved. Mirion, the Mirion logo, and other trade names of Mirion products listed herein are registered trademarks or trademarks of Mirion Technologies, Inc. or its affiliates in the United States and other countries. Third party trademarks mentioned are the property of their respective owners.