



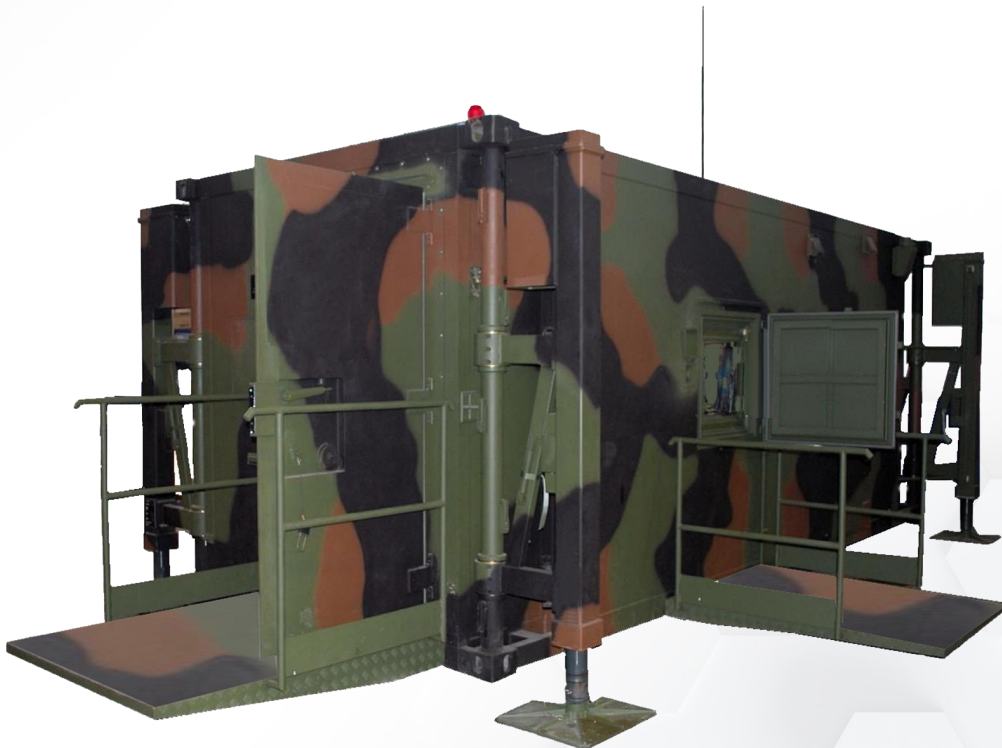
Systems designed, developed and built to enable a fast, complete and reliable identification and measurement, in the battlefield or during civilian emergency, of chemical, biological, nuclear and radiological contaminations, according to the Annexes of the STANAG 4632.

- ◆ CWA, TIC, Radioactive Isotopes and BWA identification & analysis
- ◆ 20ft aluminium and stainless steel Shelter suitable to be transported by road, rail, air or sea
- ◆ CBRN filtering for incoming/outgoing air
- ◆ Interconnection modules between multiple labs

CBRN labs

Ensuring Security
Anytime

Deployable
Analytical
Laboratories
by TEKNE
made in Italy



This document may not be considered as a contract specification.
Tekne reserves the right to modify the technical characteristics of this equipment without notice.



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CBRN labs

Deployable Analytical Laboratories by TEKNE made in Italy

Each laboratory is realized within a ISO 20ft stainless-steel shelter (for proper decontamination) suitable to be transported by road, rail, air or sea. Each module is independent from other shelters or infrastructures; nonetheless, two or more laboratories can be mechanically connected to extend the operational capabilities.

Each laboratory can be used in any operation area or climate, including CBRNe-contaminated environments, as they are quipped with air conditioning systems, ventilation, CBRN filtering (for both incoming and outgoing air).

Operational safety is realized establishing a pressure gradient spanning the three rooms (anteroom, emergency decontamination shower, lab area) within each module; interlocked access door contribute to maintaining the gradient ensuring safety for operators as well as for the environment.

The autonomy is assured for up to 72 hours.

The **R/N module** is equipped with analysis instruments & accessories integrated in the shelter in order to identify and quantify virtually any kind of environmental radiation. Equipment is capable of discriminating natural (background, medical) radiation.

The **C module** performs detailed chemical analytic analysis and identification of unknown substances, expanding its capabilities to those of a fixed laboratory and well over what pertains to the detection, identification and monitoring (DIM) of CWAs (Chemical Warfare Agents) and TICs/TIMs (Toxic industrial Compounds/ Toxic industrial Materials).

The **B module** is engineered to the full extent of BSL-3 (BioSafety Level 3).

Each module of the tactical laboratory is equipped with a fibre-optic network and an integrated radio system (C3 System), allowing voice and data exchange between laboratories and/or command posts and/or vehicles/soldiers.

Data fusion – embedded software processes information on hazardous substances localization and distribution, integrating with weather data, predicting evolution of the threat and mapping relevant information on-screen.

Reporting software (military standard) ensures integration/interfaces with C2 CBRN SW.

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Technical Data

MAIN FEATURES

Reference standard: STANAG4632
Equipment & Accessories: HPLC, Multi-channel spectrometers, Fume hood, Glove box, GC/MS, Chemical Detectors, R/N Detectors
Services: Fibre-optic network, SAT, RF interfaces, Voice/data communication, CBRN Prediction, ATP45 Reporting

PHYSICAL SPECS

Size: Shelter ISO-668 20ft
ISO 20ft: 244 cm x 259 cm x 610 cm
Internal structure: AISI 316L
Weight: 8000-11000kg
Power: 115/230VAC, 24VDC (accessories)

ENVIRONMENTAL SPECS

Operating Temp.: Climate Areas A1-C1
-32°C ÷ +49°C (operational)
-33°C ÷ +71°C (storage)
Environment: MIL-STD-810F
EMC & safety: MIL STD-464A
MIL-STD-461C/E



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