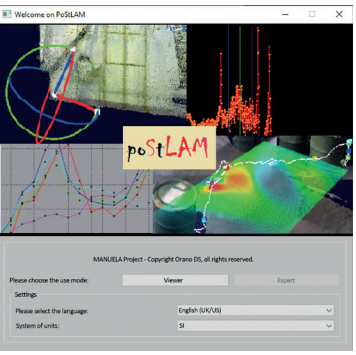
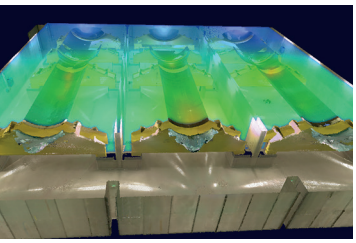
PoStLAM

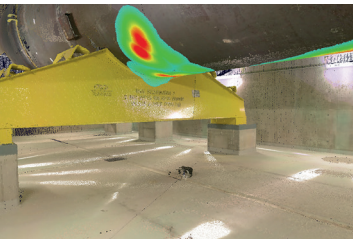
A software for valuing your topographical and radiological data



PoStLAM home screen



Mapping: Interpolation of radiometric data on a 3D topographic survey



Source location: Back-projection of the signal emerging from a source on the 3D topographic survey

Scope

PoStLAM is a post-processing software allowing the visualization of the radiological environment of a room or a building with the aim of preparing interventions.

PoStLAM allows the processing of three types of data:

- **Topographical data** :
  - 3D digital models (CAD)
  - Point clouds acquired using photogrammetry, structured light projection or 3D scanners (e.g. LEICA, FARO)
- **Radiological data**: manually positioned in space, using static sensors or robots (e.g. RIANA)
- **Radiological and topographic data**: acquired using portable devices (e.g. MANUELA™ or EMEFA)

PoStLAM is available in two different modes

- Viewer PoStLAM - Enhanced 3D environment:
  - Visualization of 3D scan and positioned measurements (dose rates, gamma spectra)
  - Visualization of results interpreted with Standard PoStLAM
- Standard PoStLAM - ALARA tool:
  - **Investigations saved as digital archives**
  - **Management of single rooms up to an entire building (digital twin)**
  - **Interpolation and back-projection of data to simulate intervention scenarios and optimise workstations**
  - **Integration of virtual operators (avatars) into 3D model to assess accumulated dose of personnel as part of ALARA approach**

Advantages

- PERFORMANCE
  Digitization of the environment, data archiving and management
- VERSATILITY
  Processing data collected from multiple sensors using a single tool
- ALARA
  Visualization of isodoses and dose rate optimization
- INTUITIVE
  Simple and visual interface for quick start-up
- VIRTUAL / AUGMENTED REALITY
  Interpreted results can be exported for visualization on virtual or augmented reality devices

Key data

The minimum system requirements for using PoStLAM are as follows:

- **Operating system:** Windows® 10 (64 bits)
- **CPU processor**: Intel® Core™ i3-8130U (or equivalent)
- **Memory (RAM):** 8 Gb
- **Graphic card**: Intel UHD Graphics 620 (or equivalent)

The software can process up to 12 Gb of data per project.

PoStLAM supports 3D data formats such as point clouds and meshes.

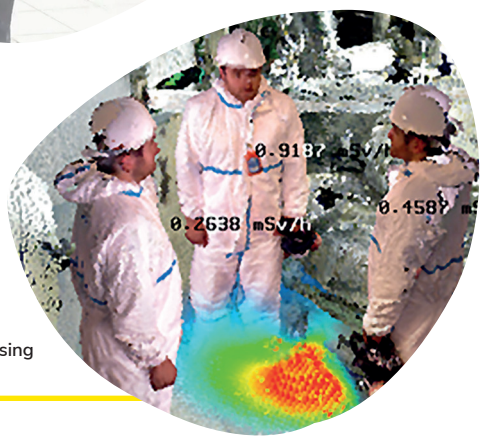
The processed data can be exported as point clouds, meshes or images.

A tool for 3D analysis of both physical and radiological data

Offer

- **Viewer PoStLAM is provided to our customers as part of our services for the constitution of input data**
- **Viewer and Standard PoStLAM are intended for radiation protectionists in order to:**
  - **optimize intervention scenarios**
  - **secure nuclear operations**
  - **share the results and discuss with operators**

Interface with Virtual Reality and Augmented Reality devices



Dosimetric simulations using AVATARS

Our references

Mapping of facilities

- **Chinon and Fessenheim NPPs:** Identifying hotspots, validating the marking out of orange zones and making sure the radiological input data is reliable in anticipation of maintenance projects

Preparation of worksites and ALARA studies

- **Cattenom NPP:** Provision of 3D mapping as part of the ALARA study for the steam generator replacement worksite
- **CEA Marcoule:** Simulation of worksite layout based on 3D mapping
- **Orano la Hague**: Radiological mapping as part of the preparation work for a dismantling project

Design studies

- **Tricastin NPP:** 3D mapping performed as part of the project to modify biological protection

Watch our presentation video for PoSTLAM

Contact us to discover the range of features PoStLAM can offer.

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