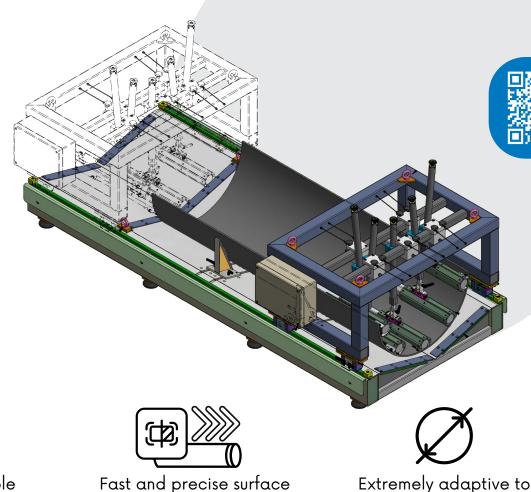


PIPE SCANNER LITE

SURFACE CONTAMINATION MONITOR FOR PIPES



Easily deployable mechanical structure

Detectors: up to 5 NaI(Tl) 2"x16" scintillators

Independently adjustable detectors position

Support base structure for pipe sections or surfaces with adjustable runners

Maximum pipe dimensions: 2 m, from 4" up to 31"

Configurable system SW

Fast and precise surface contamination measurement

diameters/geometries

The **PIPE SCANNER LITE** monitor is designed to easily perform surface contamination measurements of pipe sections coming from activities such as nuclear power plants decommissioning, Oil&Gas industry, etc.

PIPE SCANNER LITE main components are:

- a base structure supporting the object to be measured, with a "V" platform and adjustable runners
- a wheeled cart that can be manually moved at any desired position along the base structure
- a set of 5 detectors (2"x16" shielded NaI(Tl)) mounted on the cart and manually adjustable
- a panel board and a remote management PC

The pipes can be loaded on the base with their concavity facing either up or down: the system has been designed to scan both the internal and the external surfaces.

According to the pipe diameter, a different number of detector shall be actually used to perform the measurement: 1 detector for the smaller pipes up to 5 detectors for the bigger pipes.

The detectors are independently adjustable through knobs and handles, each managing every available range of movement (height and orientation), allowing the user to completely adapt the measurement equipment to the geometry of the object to be measured.

The proprietary software installed on the control PC allows to manage all the system functions through a user-friendly interface: measurement start and oversight, release reports archive, definition of isotopes, homogeneous groups and material type, quality control execution.

TECHNICAL SPECIFICATIONS

Measurement performance

- Energy range: 40 keV ÷ 2 MeV
- Environmental conditions: -20 ÷ 65 °C
- MDA: < 0.1 Bq/cm², Co-60 and Cs-137, 30 s
- Resolution: < 8% (FWHM Cs-137, 662 keV)
- Gain stability: < 1.5% over 24 h at 20°C

Detectors

- Quantity: up to 5 NaI(Tl) scintillator
- Crystal dimensions: 51 x 406 mm
- Lead shielding: 10 mm

Mechanical features

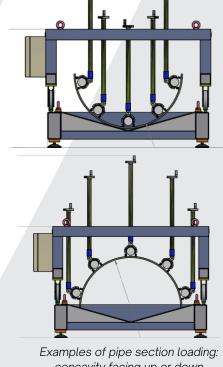
- Overall dimensions: 120 x 300 x 135 cm
- Overall weight: about 700 kg
- Material: painted S275JR steel
- Protection grade: IP55
- Deployment: runners for forklift; lifting eyebolts

Counting electronics

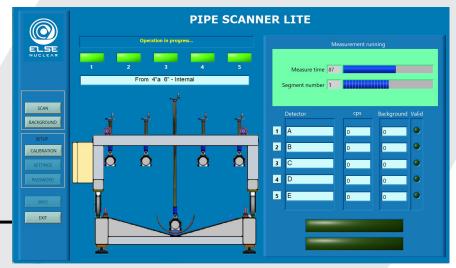
- Signal acquisition: counter modules
- Front-end electronics: single channels modules ELSE NUCLEAR PAD

Control software

- Electronics-PC interface: RS-485
- Password-protected settings: quality control and field calibration input, definition of homogeneous groups, scale factors, release factors, limit thickness
- Measurement functions: quality controls and object scanning
- Archived data management: control reports, calibrations archive, release reports



concavity facing up or down



PIPE SCANNER LITE software interface

OPTIONS

MCA instead of SCA

ACCESSORIES AVAILABLE UPON REQUEST

Warranty extension from 12 months to 24 months

