

Discover our

STARLITE



ITALY
www.raylab.solutions
info@raylab.solutions

RAYLAB

RAYLAB

DIFFERENT... FROM THE FIRST SIGHT



STARLITE is the innovative NEUTRON MONITOR made by RAYLAB: designed for INDUSTRIAL, RESEARCH and MEDICAL environments.

A silicon-based system.
It runs an embedded software able to optimize the neutron response at all energies.

STARLITE REWRITES THE NEUTRON MONITORING AT ALL ENERGIES

LIGHT AND COMPACT

4 kg easy to handle.

ESSENTIAL

Dosimetric values monitoring in real time with a history log for each measurement.

STRONG

Compact and bold design in a sleek black aluminum case.

ACCURATE

Ambient dose response linear at all neutron energies.

SMART

Wi-Fi or ethernet controlled: no app or external software needed.

FIELD DIRECTION

Real-time reconstruction of the main direction of the neutron field.

TECHNICAL
DATA

STARLITE

USER EXPERIENCE

ICRP-74 OR ICRU-95 STANDARD SELECTABLE

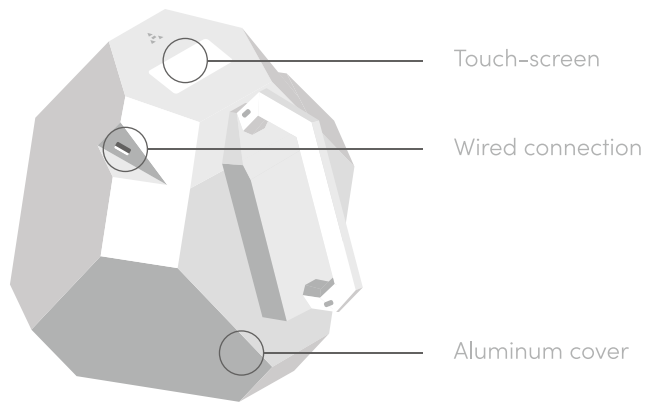
- ▶ Compliant with the new H* ambient dose standard

SMART AND STRONG DESIGN

- ▶ Neutron field direction viewer
- ▶ Touch-screen display
- ▶ Wireless and wired connectivity
- ▶ Polyethylene moderator body with aluminum hard cover

FLEXIBILITY IN THE OUTPUT REPRESENTATION

- ▶ rem or Sv measurement unit selection



RELATIVE H*(10) RESPONSE**

IRRADIATION FIELD	DEVIATION
²⁴¹ Am-Be source at 1 meter	< 2%
²⁵² Cf source at 1 meter	< 2%
Moderated ²⁵² Cf at 1 meter	< 12%
Thermal pile entrance position	< 10%

**Assessed at the CMI primary neutron facility in Prague

TECHNICAL DATA

WEIGHT	4.0 kg (8.8 lb)
OVERALL DIMENSION	25 x 23 x 16 cm (10 x 9 x 6.3 inch)
NEUTRON ENERGY RANGE	Thermal to 20 MeV
MEASURING RANGE	10 nSv·h ⁻¹ to 100 mSv·h ⁻¹
H* , H*(10) RESPONSE	0.3 cps per uSv·h ⁻¹ (²⁴¹ Am-Be)
γ-SENSITIVITY	< 1 uSv·h ⁻¹ in 10 mSv·h ⁻¹ , ¹³⁷ Cs field
BATTERY LIFE	15 h (running)

ANGULAR RESPONSE OVER 4π

IRRADIATION FIELD	VARIABILITY
Thermal neutrons	< 8%
Neutrons from ²⁴¹ Am-Be source	< 4%

STARLITE can be provided, on request, with a calibration report or certificate

STARLITE AT A GLANCE



EASY TO USE

- ▶ Touch-screen local interface
- ▶ Wi-Fi or ethernet remote User Interface
- ▶ Rate, integral, history log and direction on a clear view



READY TO GO

- ▶ Simple and clear commands and outputs
- ▶ Internal data storage: easy to recall, tag and download
- ▶ Long-lasting battery operation (rechargeable)
- ▶ Monitor or cumulative operational mode