

BeOSL Reader 2.1



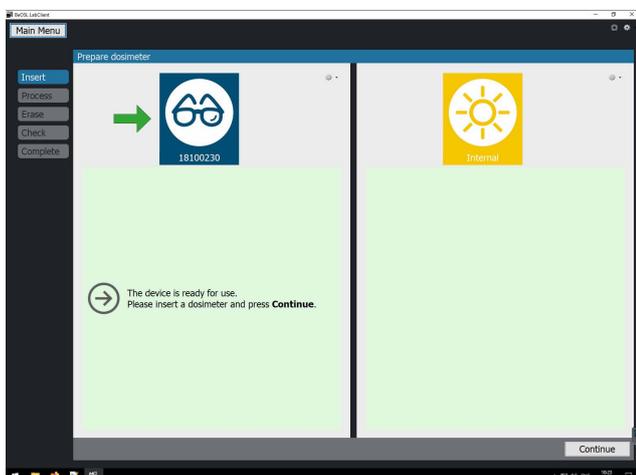
Key Features

- Compact new design
- Combines reader and eraser
- Saves handling time
- Speeds up the process

The BeOSL Reader 2.1 measures radiation exposure using optically stimulated luminescence (OSL). The detector material is beryllium oxide (BeO). During the read out process the material is exposed to light from a light emitting diode (LED). This stimulus causes instantaneous light emission from the BeO detectors which is measured by photomultiplier tubes (PMT).

The compact new design combines Reader and Eraser in size of the Reader 1.0. integrated erasing function saves handling time and speeds up the process.

Our BeOSL Technology allows multiple dosimeter readouts (re-read) for dose result verification, dosimeter archiving or dose tracking. A well-engineered de-sign, top class components, and manufacturing in Germany ensure millions of readouts without a noticeable down time.



The BeOSL Reader can be operated either manually or in a cluster in conjunction with one of our solutions for automation. It is de-signed to read 2- and 4-element BeOSL Dosimeters.

Some of the new technological features are:

- Digital Signal Processing
- Single Photon Counting Technology
- Photomultiplier Technology by Hamamatsu
- Single Photon Counting Technology
- Device is Fully Calibrated for Dosimetric Application
- Self-Testing Functions
- Remote Monitoring

To offer you the best possible support our experts are able to access the BeOSL Reader via internet. Access is subject to customer's permission. The equipment can be remotely checked, monitored and serviced. Fault identification and correction is as easy as it was never before!

For additional information including pricing, please contact the Sales team at mun-sales@mirion.com.

Technical Specifications

Dosimeter Identification:

internal bar code reader (Code 128 C),
 internal data matrix code reader (Code ECC 200)

Dose Range:

30 µSv - 10 Sv

Measurement Range (Energy, Angle):

16 keV - 7 MeV
 0° - ±60°

Repeatability:

$\sigma < 3\%$ for 1 mSv of Cs-137

Size:

Width: 20.5 cm / 8.1 in
 Height without optional handle: 20.6 cm / 8.1 in
 Length, drawer closed: 47.9 cm / 18.9 in
 Length, drawer open: 57.5 cm / 22.6 in
 Weight: 13 kg / 28.7 lbs

Electrical Supply Data:

100 - 240 V, 50 - 60 Hz

Maximum nominal power:

30 VA @ 100 V,
 40 VA @ 240 V

IP41

Interfaces:

USB
 Network interface RJ45

Combinded Device:

Reader & Eraser

Hand wheel:

for tool-free manual draser opening

Components

Article No.	Description
1001	BeOSL Two-Element Dosimeter
1002	BeOSL Four-Element Dosimeter
2003	BeOSL Irradiator
2019	BeOSL Reader 2.1
2012-0001	Reader Control PC (full)
2012-0002	Reader Control PC (light)



2019