

TOPAZ®

OSL LENS OF EYE DOSIMETER

Adapted to our OSLR dosimeter reader

The TOPAZ is a passive lens of eye dosimeter that measures X-rays, gamma rays and beta radiation. The MP7 OSL sensor can be easily annealed for immediate and long-term reuse.



Hook



Cap



OSL sensor



Cork

UNIQUE COMFORT AND HYGIENE

- Multiple ways to wear it with or without PPE
- Adaptable to any support
- Laser-engraved details prevents information from washing off

DESIGNED FOR DOSIMETRY LABS

Functional design minimizes your set-up time

- Easy assembly
- Clip-on parts
- Reusable
- Holder and MP7 OSL Sensor tracability with 2D barcode

OSLR



OSLR

COMPATIBLE

OSL lens of eyes dosimeter

Simple and practical to use



PRACTICAL COMFORT COMBINES WITH ACCURACY

Ergonomic lens dosimeter without blocking the field of vision.

The TOPAZ dosimeter does not affect participant's activity and view. Offered in two sizes, it is adapted to all supports: sealed glasses, visors, mob caps... Selfgripping pads ensure a maximum fit.

You can configure it for measurements behind or in front of the PPE (Personal Protective Equipment).

The cap can be rotated to fit the PPE geometry.

Accuracy you can count on

The MP7 OSL sensor sensitivity is stable. It is not affected by repeated bleaching. The MP7 sensor is extremely robust and allows repetitive and long term use.



3 colours available for wear period identification

GENERAL CHARACTERISTICS

Energy range	± 60° incidence angle from 24 keV to 1.33 MeV	
Photons		
Dose range	100 µSv - 10 Sv	
Types of radiation measured	Photons (X- and gamma rays) and beta	
Detector	Single MP7 OSL sensor	
Sensor material	Aluminium oxide doped with carbone, $Al_2O_3:C$	
Holder material	Polyamide	
Weight	M	720 mg
	L	770 mg
Sizes	M	4.6 mm
	L	7.6 mm

Size M

Size L



Two sizes to match with all PPE

MEASUREMENT METHOD

This lens of eye dosimeter uses a novel tissue equivalent MP7 OSL sensor. The OSL material is made from Aluminium oxide doped with Carbon ($Al_2O_3:C$).

The dose is measured using the OSLR readers.

The read out process uses a LED (Light Emitting Diode) to stimulate the detectors. The light emitted by the OSL material is measured by a photomultiplier tube (PMT) using a high sensitivity photon counting system. The amount of light released during optical stimulation is directly proportional to the radiation dose.



MP7 OSL sensor