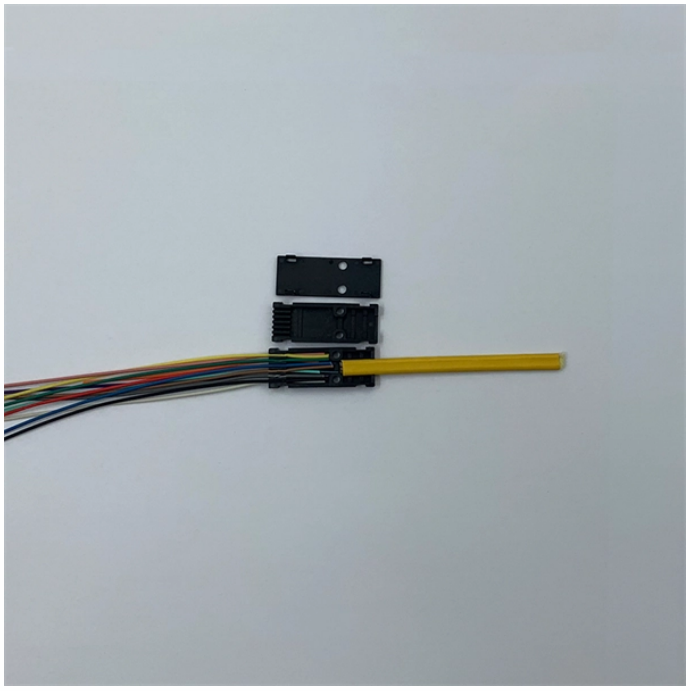
Eyes injured by optical module



Overview

Laser and light-based devices can cause serious ocular complications, including corneal abrasions, loss of visual acuity and pupillary abnormalities. Injuries result from direct exposure to electrical current from artificial sources such as household wiring, electrical outlets, appliances, industrial equipment, and overhead power lines as well as natural sources such as lightning. Most commonly affect adolescents aged 13-18 years old. Typically. Education on the safe use of potentially hazardous devices is lacking, as this case demonstrates. A 40-year-old man sustained an accidental, laser-induced retinal injury that progressed to a full-thickness macular hole (FTMH) in each eye. He presented after the injury occurred while using a. Mohamed S Sayed, Marcus J Ko, Audrey C Ko, Wendy W Lee, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL 33136, United States Author contributions: Lee WW contributed to design and final approval; Sayed MS contributed to writing of the manuscript; Ko MJ and Ko. The use of laser energy in medical practice requires specific safety measures. Accidental ocular exposure of laser can have vision-threatening consequences. A literature search on the PubMed database was conducted to include articles

© 2026 GDR Telecom Site Energy Systems - All rights reserved

dated up.

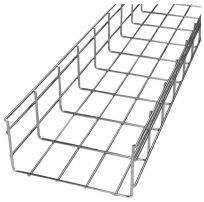
© 2026 GDR Telecom Site Energy Systems - All rights reserved

Eyes injured by optical module

This paper presents retinal injuries in 10 eyes of seven teenagers who had been playing with a handheld laser. They reported different degrees of visual symptoms in the form of central ...

Handheld laser pointer retinal burns are a significant and rapidly rising public health concern. These gadgets are getting cheaper, more potent, frequently mislabelled, and simple to ...

We report a case of accidental laser exposure in a dentist who was working with a diode laser. The patient presented within 24 hours of exposure and the clinical fundus examination and spectral ...



There is an increasing trend of reported laser-induced ocular injury. We aimed to review the literature on the basic principles of laser, clinical management and safety precaution of laser ...

At low-power levels, lasers may produce a temporary reduction in visual performance in critical tasks such as driving a vehicle. At high-power levels, greatly exceeding exposure limits, they may produce ...

© 2026 GDR Telecom Site Energy Systems - All rights reserved

Laser and light-based devices can cause serious ocular complications, including corneal abrasions, loss of visual acuity and pupillary abnormalities.

Possible ocular complications related to the cosmetic use of lasers and lights range from mild eyelid swelling and erythema to potentially blinding macular injury. Ocular injury may also be inflicted by the ...

Our review of 207 eyes of 171 cases reported through December, 2018, provides important insights into characteristic features of handheld laser maculopathy, including findings that ...

A 40-year-old man sustained an accidental, laser-induced retinal injury that progressed to a full-thickness macular hole (FTMH) in each eye. He presented after the injury occurred while using a ...

Electrical and lightning injuries create unique eye damage patterns distinct from typical trauma. Learn key diagnostic features, imaging findings, and management.

Our review of 207 eyes of 171 cases reported through December, ...

© 2026 GDR Telecom Site Energy Systems - All rights reserved

Contact Us

For more information, pricing, or custom energy solutions, please contact us:

Website: https://www.gdroofing.co.za
Email: sales@gdroofing.co.za
Phone: +27 72 418 9365
Address: 22 Electron Avenue, Isando, Johannesburg, 1600, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

© 2026 GDR Telecom Site Energy Systems - All rights reserved