

# Global Single-Mode Blue Laser Diode Market Data Survey Report 2025

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## Abstracts

### Summary

Laser diodes are electrically pumped semiconductor lasers in which the gain is generated by an electrical current flowing through a p–n junction or (more frequently) a p–i–n structure. In such a heterostructure, electrons and holes can recombine, releasing the energy portions as photons. This process can be spontaneous, but can also be stimulated by incident photons, in effect leading to optical amplification, and with optical feedback in a laser resonator to laser oscillation. A blue laser diode emits electromagnetic radiation with a wavelength between 405 and 483 nanometres, which the human eye sees as blue or violet. A single mode blue laser diode has only one mode of light to propagate.

The global Single-Mode Blue Laser Diode market will reach Volume Million USD in 2017 with CAGR xx% 2018-2025. The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

Nichia

Sharp

Sony

Osram Opto Semiconductors

TOPTICA Photonics Inc.

Egismos Technology Corporation

Ondax

Major applications  
as follows:

Bio/Medical

Laser Projectors and Scanners

Blu-Ray Devices

Others

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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