

Optical Wireless Communication and LiFi: Global Markets to 2023

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Abstracts

Report Scope:

This report provides an updated review of optical wireless communication giving a description of basic equipment configurations. It also identifies current and emerging applications for this technology.

BCC Research delineates the current market status for OWC systems, defines trends, and presents growth forecasts for the next five years. The market is analyzed based on the following segments: OWC type, light source type, component type, transmission range, application, and region. In addition, technological issues, including key events and the latest developments, are discussed.

More specifically, the market analysis conducted by BCC Research for this report is divided into five sections.

In the first section, an introduction to the topic and an historical review of OWC and LiFi are provided, including an outline of recent events. In this section, a brief introduction to the numerous applications of these technologies is also offered.

The second section provides a technological review of optical wireless communication and LiFi. This section offers a current description of various components and systems; the three main types of OWC (visible light communication, infrared communication, and ultraviolet communication); technological trends in OWC technology; and new and emerging configurations. This section concludes with an analysis of the most important technological developments since 2016, including examples of significant patents recently issued or applied for, as well as highlighting the most active research

organizations operating in this field.

The third section entails a global market analysis for OWC systems. Global revenues (sales data in millions of dollars) are presented for each segment (OWC type, light source type, component type, transmission range, application, and region), with actual data referring to the years 2016 and 2017, and estimates for 2018. Dollar figures refer to sales of OWC equipment at the manufacturing level.

The analysis of current revenues is followed by a detailed presentation of market growth trends, based on industry growth, and industry and regional trends. The third section concludes by providing projected revenues for OWC systems within each segment, together with forecast compound annual growth rates (CAGRs) for the period 2018 through 2023.

In the fourth section of the study, which covers global industry structure, the report offers a list of the leading suppliers and developers of OWC equipment, together with a description of their products. The analysis includes a description of the geographical distribution of these firms and an evaluation of other key industry players. Detailed company profiles of the top players are also provided.

The fifth and final section includes an analysis of recently issued U.S. and international patents, with a summary of patents related to OWC technologies, equipment, and applications. Patent analysis is performed by region, country, assignee, patent category, OWC type, component type, and application.

Report Includes:

62 data tables

An overview of the global markets for optical wireless communication (OWC) and LiFi

Analyses of global market trends, with data from 2017, estimates for 2018, and projections of compound annual growth rates (CAGRs) through 2023

Description of modulation, coding, input-output and signal processing techniques for OWC and LiFi systems

Insight into the market through investigation of its value chain, technological

trends, and the global industry structure

Relevant patent analysis

Comprehensive profiles of leading players in the market, including Broadcom, General Electric, Honeywell International, Panasonic and Philips Lighting

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