

Point Light Transmitter



Overview

In, visible light communication (VLC) is the use of (with a of 400–800, of 780–375) as a. VLC is a subset of technologies. The technology uses (ordinary lamps, not special communications devices) to transmit signals at 10, or for up to 500 Mbit/s over short distan.

Article Overview

A Point Light Transmitter is a highly focused light source, typically an LED or point emitter, designed to emit a precise, concentrated beam for optical applications.

Overview

A Point Light Transmitter functions as a compact, high-intensity light source that emits light from a very small active region, producing a narrow, well-defined beam with minimal dispersion. This precision makes it ideal for applications requiring accurate illumination, such as optical encoders, sensors, fiber optic communication, medical imaging, and microscopy .

Key Features

- **Focused Beam:** Point light transmitters emit a tightly concentrated beam, reducing light scatter and improving measurement or imaging accuracy .
- **Wavelength Range:** They are available in visible (e.g., 650 nm) and near-infrared (e.g., 850 nm) wavelengths, suitable for diverse optical systems .
- **Compact Size:** Active regions can be as small as 8 μm to 160 μm , allowing precise targeting and efficient coupling into optical fibers

Article Content

Apr 10, 2026

A novel hemispherical visible light transmitter design for ...

In this article, we present a hemispherical transmitter design for multi-user optical beamforming (MU-OB) using visible

May 17, 2026

Building an Infrared Transmitter and Receiver Board

The Transmitter and Receiver Board This board is also an integral component in an assistive technology device called

Aug 14, 2025

Arduino Laser Module KY-008 (HW-493) — Wiring, Pinout & Code

Point the KY-008 across a doorway at a light sensor — a light-dependent resistor (LDR) works well, or a dedicated

Mar 05, 2026

Transmitters & Receivers - Flashpoint - Photography Lighting

Whether you are a road dog, studio gangster, an at-home aficionado, or anything in between, be confident that your Flashpoint

Mar 30, 2026

Optical Transmitters and Receivers : Sources and Its ...

What are Optical Transmitters and Receivers? The optical fiber communication system mainly includes a transmitter and receiver

Aug 14, 2025

Point Lighting Corporation | Aviation Obstruction, Heliport, & Helideck ...

Point Lighting Corporation has been a leader and innovator in heliport and obstruction lighting since 1993. We are a

Jul 03, 2026

Laser Communicator Circuit - Send, Receive Data with

To test this simple laser communicator circuit go to a room where electrical lights are switch

Sep 28, 2025

Application | Civilian Line-of-Sight laser communication

Ground-to-ground optical communication is a wireless data transmission method based on the propagation

Jul 01, 2026

Transmitted Illumination | CoolLED | Microscope

For researchers seeking the best transmitted LED light source for brightfield microscopy, our pT-100 is a

Dec 12, 2025

Paper Title (use style: paper title)

Abstract—Many algorithms for visible light positioning (VLP) localization do not consider the shapes of the transmitters, which leads

Dec 02, 2025

LEDs: powerful, efficient, and durable

The LED point sources with pre-collimating optics provide a sharply defined and evenly illuminated

Feb 06, 2026

Point Source LEDs

Point source LEDs by Marktech Optoelectronics are designed to emit a highly focused beam of light, which is critical

Apr 09, 2026

Visible light communication

In telecommunications, visible light communication (VLC) is the use of visible light (light with a frequency of 400–800 THz, wavelength of 780–375 nm) as a transmission medium. VLC is a subset of optical wireless communications technologies. The technology uses fluorescent lamps (ordinary lamps, not special communications devices) to transmit signals at 10 kbit/s, or LEDs for up to 500 Mbit/s over short distan

Jul 31, 2025

Telecommunications media

Telecommunications media - Radio transmission: In radio transmission a radiating antenna is

Feb 01, 2026

What is a transmitter and a relay?

What is a transmitter and a relay? TV transmitters send digital TV signals through the air which are received by an aerial, often on a

Feb 22, 2026

Photoelectric Sensor

A photoelectric sensor is a type of sensor used to detect the presence or absence of objects, as well as to measure

Nov 17, 2025

What is a point light source

□□ A point light source has a very small spatial extent | Even more knowledge in the Light Source Glossary

Oct 03, 2025

Visible Light Communication

Visible light communication (VLC) is a wireless method that enables high-speed transmission of data with visible light. This data is

Dec 01, 2025

PowerLight Technologies

PowerLight Technologies is PowerLight Technologies is a leading developer of laser power

May 10, 2026

Photo-link Light Transmitter Unit PLT133/T10W

Photo-link Light Transmitter Unit PLT133/T10W Features High speed signal transmission(16Mbps NRZ Signal) TTL interface compatible

May 21, 2026

IRS aided visible light positioning with a single LED transmitter

We propose a visible light positioning (VLP) system with a single light emitting diode (LED) transmitter and an

Apr 20, 2026

Using the Laser Transmitter Module KY-008 with Arduino

Project - Arduino Blinking Laser Pointer After learning about the KY-008 module and the laser diode, it is now time to

Dec 11, 2025

(PDF) Non-Point Visible Light Transmitter Localization based on ...

Therefore, this paper proposes a novel VLP algorithm and addresses the problems in terms of practicality and

Dec 28, 2025

Light transmitter and receiver

For measuring the velocity of light and also the refractive indices of optically transparent liquids as well as

Oct 13, 2025

Point Source

Offering a narrow beam angle, our Point Source LEDs direct concentrated light to precise locations,

Dec 17, 2025

Rosemount™ 3051 Pressure Transmitter

With over 10 million devices installed, this pressure transmitter family offers an all-in-one solution for

Contact Us

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

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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