

Light-sensing and voice-controlled intelligent module



Overview

Today, smart systems let you shape how a room feels with a tap, a voice command, or even automatically based on the time of day. Think about walking into your living. This is where smart control systems and IoT (Internet of Things) integration are making a transformative impact. Smart LED lighting goes beyond simple illumination. With features like automated dimming, scheduling, motion sensing, voice control, and real-time energy monitoring, lighting becomes an. This research explores the design and development of a smart home automation system that integrates voice and typed command controls to manage household appliances including lights, fans, and sockets, alongside automated water tank management and room temperature sensing.



Article Content

Nov 14, 2025

Intelligent LED lighting control system design and realization

LED lighting is widely used; in order to adapt to a variety of applications, an intelligent LED lighting control system is designed. The

Jan 27, 2026

Intelligent Lighting System for Building Automation | Renesas

Equipped with a DALI-2 interface for centralized control of multiple light modules. Features a noise-resistant capacitive touch key

May 06, 2026

Best smart light switches in 2025

The best smart light switches let you control your lights with a phone or voice assistant and can save you money

Apr 12, 2026

Connected and smart LED lighting for IoT

One of the smart lighting solutions provided by Infineon includes a range of AIROC™ Bluetooth® Mesh and certified modules that

Sep 17, 2025

Aqara Showcases Scaling Professional-Grade Infrastructure and

Intelligent Lighting Control At Light + Building 2026, Aqara showcases a professional-grade lighting control system designed for

Aug 10, 2025

Design and Implementation of Intelligent Lighting Ducontrol System for ...

An intelligent lighting system based on Arduino micro controller can intelligently turn on, off, and adjust the intensity of light according

Jun 29, 2026

A literature review on Improvement of Weather prediction by using ...

This paper presents an intelligent lighting control system that optimizes energy efficiency and user comfort by integrating real-time

Mar 21, 2026

PRAESENSA IP-Based Public Address and Voice Alarm System

PRAESENSA sets a new industry benchmark for mid-to-large applications. It is an advanced and extremely cost-efficient IP

Aug 29, 2025

Smart lighting voice control guide

Having voice-activated lights is one of the hallmarks of a truly modern home. Learn the ins and outs of how it works

Jul 25, 2026

Smart Home Automation: Integrating Voice and Typed Command

The integration of voice and typed command control for lights, fan, and socket management, along with automated water tank

Mar 27, 2026

Intelligent Fixture Control System

Sensor wirelessly communicates to all other devices in the room, provides occupancy and light level detection, and controls the load

Feb 11, 2026

Smart Lighting with Voice Control: The Ultimate Guide

Tired of fumbling for light switches? Voice-activated smart lighting provides a hands-free solution, making your home

Aug 18, 2025

Simple Light-sensitive and Voice-controlled Lighting System based on ...

In this paper, LED lighting components and an Arduino-UNO development board are selected to build a simple voice-controlled and

Jul 22, 2026

Smart Control Systems & IoT Integration in LED Lighting

Smart LED lighting goes beyond simple illumination. With features like automated dimming, scheduling, motion sensing, voice

Aug 25, 2025

Future trends in intelligent lighting control systems: Integrated ...

Therefore, this study starts from the components of intelligent lighting control system and focuses on the data acquisition module and

Aug 25, 2025

Design of Intelligent Home Lighting Control System Based on

The intelligent control of lighting in the home and the convenience of handling are studied, breaking the limitation of the distance

May 09, 2026

The Next Evolution in Smart Lighting: Integrating Voice and Spatial

Leading appliance and IoT brands like Midea, Gree, and Xiaomi are now integrating these advanced capabilities to create lighting

Jul 23, 2026

Assessing the Feasibility and Efficacy of TinyML Based Voice

This research paper evaluates the feasibility and efficacy of a low-cost voice-activated LED lighting system based on the Raspberry

Jun 07, 2026

Intelligent Voice Control Lighting Device Based on Arduino UNO ...

Abstract. This work is an intelligent voice control lighting device based on Arduino UNO microcontroller. It will save a lot

May 07, 2026

Simple Light-sensitive and Voice-controlled Lighting System based on ...

This paper consulted the relevant information, chose sound and light control together, and set up a programmable

Mar 23, 2026

Smart Lighting: How Intelligent Light-Sensing System Works

Explore how Intelligent Light-Sensing Systems optimize brightness, save energy, and enhance user comfort in smart

Mar 05, 2026

Smart Home Automation: Integrating Voice and Typed Command Control

The integration of voice and typed command control, automated water tank management, and room temperature sensing in smart

Nov 30, 2025

Lighting Control Module

Intelligent Lighting Control Module not only eliminates the manual operation and management of lighting in a building,

May 06, 2026

Sound Module, JRGKJCP 16MB Push Button, Magnetron,Light Control ...

Sound Module, JRGKJCP 16MB Push Button, Magnetron,Light Control Activated Recordable Voice Sound Chip Module with Light

Nov 08, 2025

Integrated sensing, lighting and communication based on visible light ...

This paper introduces the Lighting, Sensing, and Communication (LiSAC) concept for VLC and systematically reviews

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