

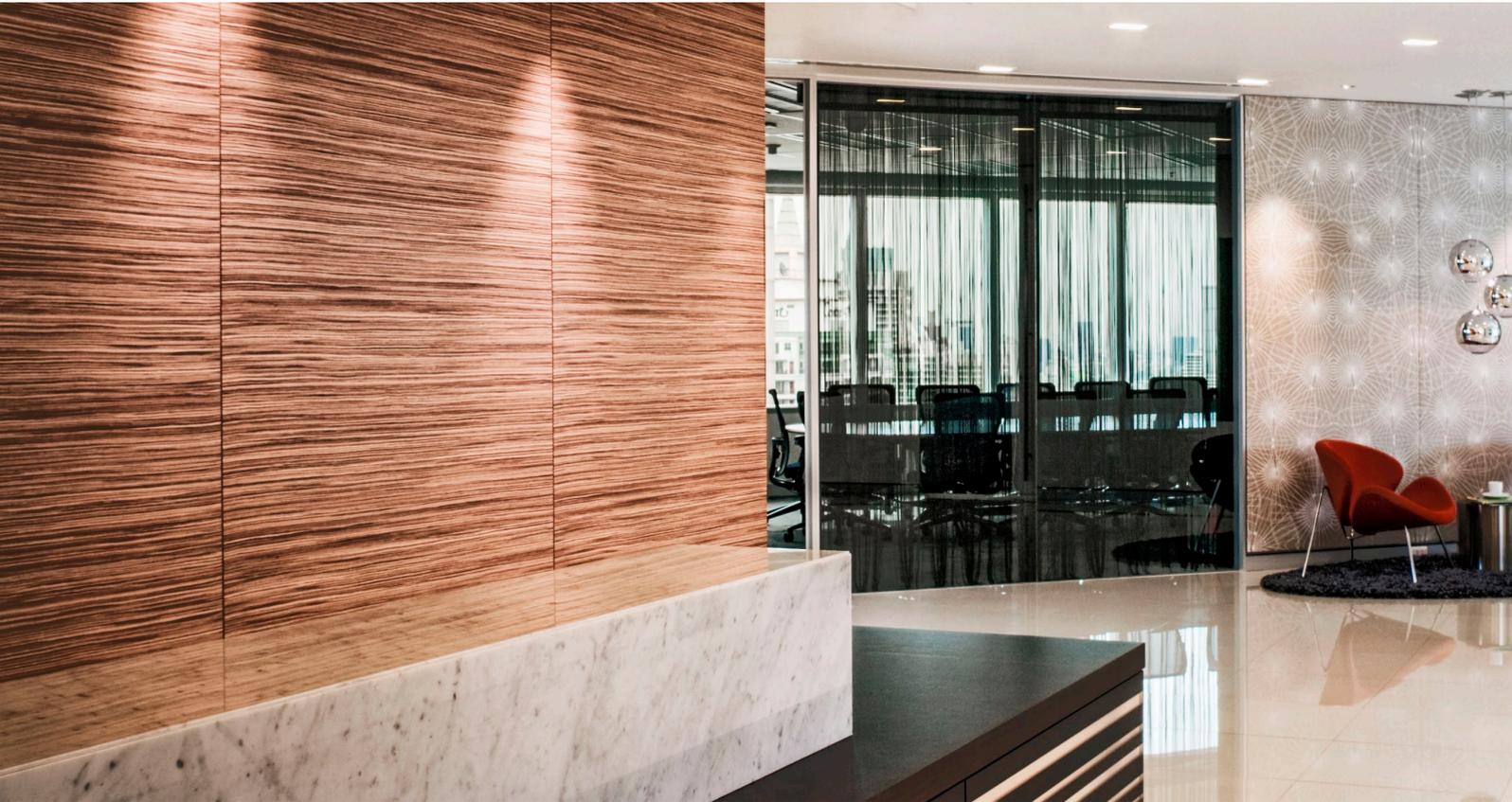
Light is yours to command

Functional intelligence for smart lighting with mobile apps

We control our lives with our smartphones, so why should lighting be any different? Now, intelligent lighting is yours to command and at your fingertips. OSRAM offers simple, powerful solutions for app-controlled lighting. Installation, maintenance and configuration are made more convenient, efficient and user-friendly; thanks to the power we all have in our pockets.

Light is OSRAM

OSRAM



Command & control

Productive and creative work in professionally illuminated environments is one of the most important factors in buildings for both companies and their employees. Too often, setting up and using these systems in the most beneficial ways require complex interfaces or complicated procedures. With this in mind, OSRAM has worked to make configuration and control easier, and now with mobile application control, it is.

With their Bluetooth® interfaces, the DALIeco BT and DALI ACU BT control units are perfect for individual light control. Enabling switching, brightness adjustments and – with tunable white – the ability to change color temperature. And now, users can do all of this with a tool they have in their pockets: their smartphone. For office and building managers, this means simpler, more intuitive, more powerful controls to adjust their lighting preferences.

For OEMs, electricians and installation specialists, DALIeco BT, DALI ACU BT, LUXeye and DALI PROFESSIONAL all provide faster, easier set-up, configuration and maintenance, thanks to pre-configured solutions that work right out of the box and non-intrusive installation options.

OSRAM has developed and expanded mobile app control for these product lines with both users and technicians in mind. It has never been easier to install and use OSRAM app-controlled solutions, meaning fewer hours spent on site and more time giving people the light they desire, with the power to change it at a whim. OSRAM knows user-friendly lighting control, and our app design reflects this. OSRAM mobile apps empower users with lighting at their command – control at their fingertips, using their smartphones.



App control is revolutionizing commercial lighting

An interview with Norbert Fuchs, Product Manager for LUXeye, and Ursula Krüger, Product Manager for DALI ACU BT

OSRAM: What impact has digitalization had on lighting solutions and how do you interpret the potential of app-controlled lighting?

Norbert Fuchs: Digitalization occurred much faster than expected. Lighting has come a long way from incandescent lamps. With smartphone app control, there are unlimited possibilities. A lot of our customers – including installers, wholesalers and OEMs, were unsure about how to take advantage of these possibilities. We partner with them using IoT solutions to enable digitalization with app control, by providing the knowledge, infrastructure and products.

Ursula Krüger: Light digitalization is already established in Europe and many industrialized countries, and its evolution is continuing. Since everyone keeps their smartphone close at hand, the obvious next step is to use it for lighting control.

OSRAM: How do your products help to make installation and maintenance more efficient? What are the end-user benefits?

Norbert Fuchs: LUXeye is our energy-efficient, autonomous compact light control with motion sensors and it's adjustable with an app interface. Customers can easily update the main parameters with a screwdriver, or if they want greater flexibility and control, they can use the smartphone app. The app adds transparency, and customers can also receive diagnostic information.

Ursula Krüger: It is important for the installer that everything is easy to set up, without complex wiring. The DALI ACU BT is ideal if there is existing DALI lighting. There is nothing to configure, and existing configurations can be customized in the app with drag & drop and drop-down menus. This saves time and costs, with easy troubleshooting.



OSRAM: How does the app revolution apply to commercial lighting? What is the general idea behind app control?

Norbert Fuchs: App control gives commercial customers the ability to override autonomous lights. The customer can easily change the default settings. We created two apps, the first being the commissioning app which helps to minimize commissioning time. The other app is designed for the end-user – it's a controller. In designing the apps, we learned from our previous experience with other products, to make everything more efficient.

Ursula Krüger: There is a clear trend toward focusing on people and their needs. Human Centric Lighting is becoming more and more important, and our controller provides an ideal solution, together with the app. The installer can use the configuration menu intuitively, and the end-user can adjust lighting to their individual preferences.

OSRAM: What challenges do commercial lighting professionals and their customers face in the current lighting landscape?

Norbert Fuchs: The demands of modern business have created many challenges. The need for easier commissioning by installers and greater control and ease-of-use by end-users, the ability to retrofit existing systems and to provide future-proofing. LUXeye addresses these challenges.

Ursula Krüger: Commercial lighting requirements vary greatly. From offices of various sizes to solutions for entire floors or entire office buildings. The challenge today is to give installers and end-users the opportunity to understand the new digital world and then apply its solutions. The advantage of our DALI ACU BT solution is that it is simple, without the need for prior knowledge.

OSRAM: How can app control make the life of OEMs, architects and electricians easier?

Norbert Fuchs: The app provides total control. An electrician can simply connect the light to the LUXeye controller, then after aligning with the customer, fine-tune each setting using the smartphone app, creating an individual profile.

Ursula Krüger: OEM customers are increasingly demanding smart lighting. Our two controllers allow OEMs to make existing luminaires future-proof or smart-ready by replacing a component. Architects are strongly design-oriented, keen to ensure that light is not consciously perceived, that it is part of the creative solution.

OSRAM: The benefits for end-users?

Norbert Fuchs: Over the last few years, end-users have had the ability to control their home lighting, and they have been asking for this in their working environment. We ensure our products are very human-focused and user-friendly. With app control, they can easily control the lighting to their personal preferences.

Ursula Krüger: A good example is a meeting room in a small office. At the beginning of a presentation, I can already save and activate a light mood in the app on my smartphone. After the presentation, when there is a discussion, I can call up the next profile to adjust the light to a brighter setting again, repeatedly changing the color mood without having to touch the light switch.

OSRAM: Where do you see the future of app-controlled lighting?

Norbert Fuchs: It is an exciting time. As digitalization for commercial lighting becomes more and more advanced, we will develop new features for existing apps, as well as new products. App-controlled lighting is a living project.

Ursula Krüger: We are in the process of integrating what we like to call "mesh-ability", which means that the individual controllers can communicate with each other, so that larger groups can be formed, supporting more complex lighting scenarios in the office. Today you can control up to 32 lights with one controller, and in the future you will be able to form groups within the 32 lights and control them differently.

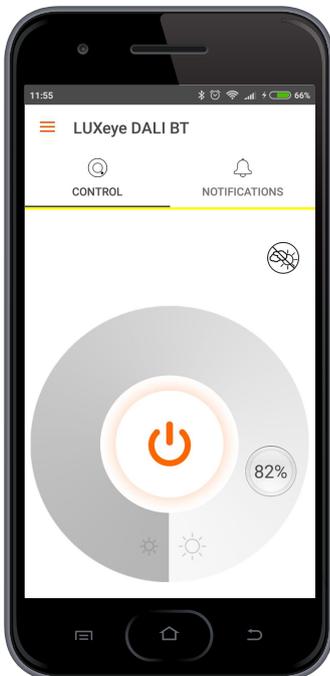


Why integrate app control into your lighting installations?

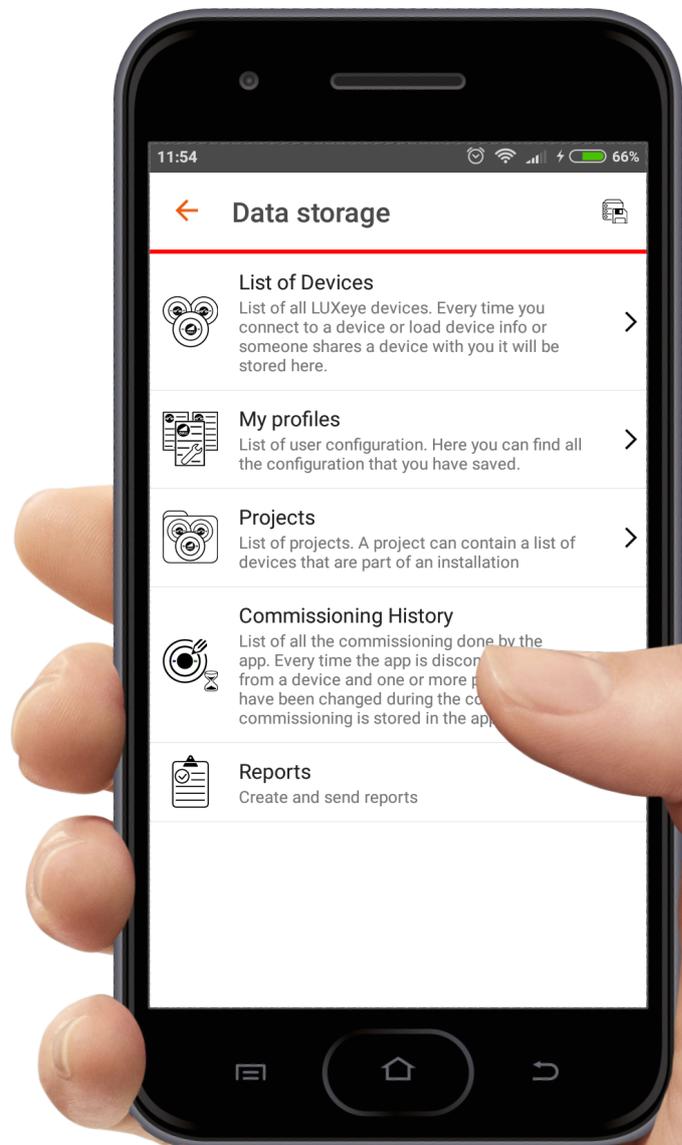
Save time, effort and labor. App control can give you the ability to quickly install, configure and update DALIeco BT, DALI ACU BT, DALI PRO and LUXeye systems (individual systems vary in capabilities). Set-up is faster and easier. Non-invasive maintenance is more efficient, meaning happier customers and less time spent on call-outs. With app control, you can reduce the number of specialized tools you need for on-site visits – a smartphone is a tool you always have by your side.

Depending on the chosen solution, app control offers:

- Faster and simpler commissioning
- Easy configuration and pre-configured devices
- Customizable user interfaces
- Retrofit options for existing systems
- Easy-to-update firmware over-the-air
- Diagnostics and status reporting
- Password protection



LUXeye DALI BT: Controlling on/off settings and brightness at a glance.



Conveniently access all automation-related settings in one app.

Why use apps to control your lighting?

The right light, at the right time, in the right location. It's possible with app control. With multiple intelligent lighting control features that ensure the light setting is perfect for the current use of the room, app control gives users an easy way to control their comfort.

Switch all the lights on a floor on or off with a simple swipe, thus saving energy, and manage preferences without needing to access a maintenance panel or central control. Easily set lighting scenes to activate at certain times and on certain days, depending on your needs.

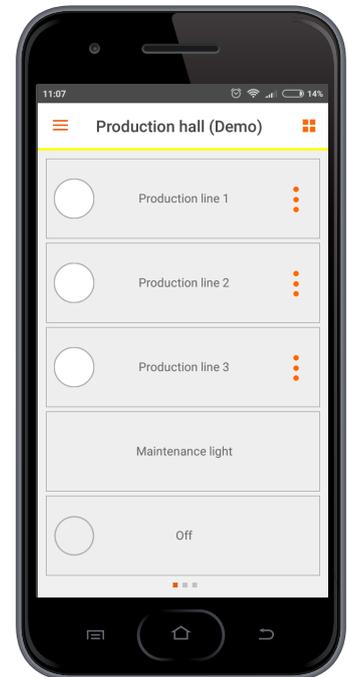
With app control, professional lighting systems can now be easily controlled via smartphone. You can configure the app's functions and override automated settings to suit your preferences.

Depending on the individual solution, app control offers:

- Comfortable switching and dimming
- Instant information from clearly-arranged room groupings
- The ability to activate/override daylight controls
- A selection of static lighting scenes and dynamic sequences
- Control elements for colored light (RGB)
- Control elements for color temperature adjustment (tunable white)

Increase the utility of your existing installations

Existing DALI-compatible installations can be app-enabled by adding DALIeco BT or DALI ACU BT control units, providing state-of-the-art control of your current lighting system.



Access and control multiple intelligent lighting features.



Easily control elements for colored light.



Conveniently tune the color temperature settings.

State-of-the-art control for professional lighting has never been easier

No matter the situation or set-up, OSRAM mobile applications give fine control over configuration, maintenance and usage of modern lighting solutions.

OSRAM BT Config

This mobile app features autonomous connected component detection and automatic light calibration, meaning the manual commissioning and adjustment of daylight-dependent controls are now a thing of the past. It allows access to the configuration parameters of OSRAM BT products, including predefined profiles, integrated report functions and a troubleshooting wizard.



App Store for iOS



Play Store for Android



OSRAM BT Control

Control DALI-capable luminaires at a touch. This app lets users intuitively adjust light levels and color temperatures, save individual light scenes and manually override automatic lighting control. All these tasks can now be performed using a smartphone in combination with conventional push-button controls.



App Store for iOS

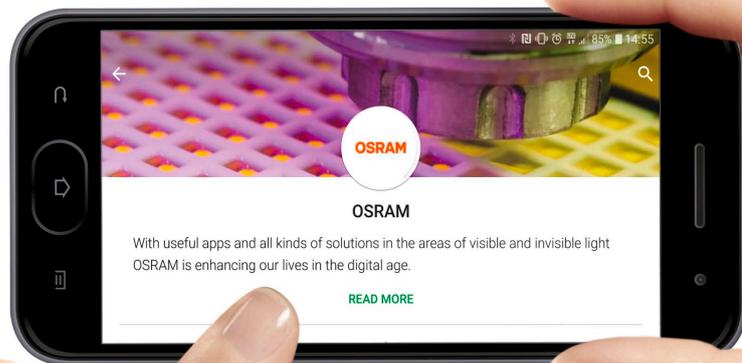


Play Store for Android



DALleco BT and DALI ACU BT

DALleco BT is a Bluetooth®-enabled, universal and cost-efficient light management system for luminaire and ceiling integration. It is easy to install, simple to start up and convenient to operate. DALI ACU BT is a compact control unit that comes with a DALI channel for controlling standard or tunable white LED drivers.



The smart solution for demand-based and energy-efficient lighting

LUXeye provides energy-efficient, autonomous lighting whenever and however you need it. This Bluetooth®-enabled light management system with daylight and presence detector can be controlled conveniently via a smartphone or a push-button.

LUXeye Config

Set up app control to suit user preferences and get full access to all OSRAM LUXeye product configuration parameters using Bluetooth® wireless technology. Commissioning is easier with predefined profiles and integrated report functions. A troubleshooting wizard makes commissioning and maintenance easier and faster.



App Store for iOS



Play Store for Android

LUXeye App Control

With the LUXeye app, the light can be switched on and off and, with the DALI version, also dimmed. As long as the sensors are active, the light will be switched and dimmed autonomously. This can be overridden manually at any time. Password protection is available for access control.



App Store for iOS



Play Store for Android

A proven system for commercial or industrial applications

The DALI PRO system is suitable for controlling several rooms, halls or entire floors via app. This flexible solution is ideal for industrial usage or office buildings with several individual rooms. Using the Windows-based DALI PRO software and a USB connection, configuring the control app is just as easy and convenient as adjusting all system parameters using a PC.

DALI Professional configuration PC software

The DALI PRO PC software makes it possible to configure operating devices, lighting groups and lighting scenes easily and quickly. Full flexibility and a future-proof system structure allow changes and extension at any time.

https://www.osram.com/ds/tools/dali_pro.jsp

DALI PRO Control

Easily manage complex lighting scenarios at a touch: switch or dim lights, change light colors or adjust the color temperature. The DALI PRO Control app can adjust each luminaire or group of luminaires in any and all rooms, according to individual requirements. Multiple users can connect to the system simultaneously, with individually configured profiles for each user.

Expanded functionality, such as controlling light colors (RGB), color temperatures and dynamic color changes, have now been added to standard functions, such as switching, dimming, presence detection and daylight-dependent lighting control.



App Store for iOS



Play Store for Android



Find the right solution for your application

Keep it powerful, but simple

For small- to medium-sized rooms and single luminaires, consider the DALIeco BT and DALI ACU BT. Any space under 100m² with up to 32 luminaires is ideal:

- Offices: single and group workplaces
- Smaller conference rooms
- Staircases and foyers
- Toilets and washrooms
- Corridors in factories and warehouses

Choose the perfect design for each type of installation: DALIeco BT for linear lights, built directly inside the luminaires, and DALI ACU BT for compact lights, which can be installed next to the light fixture in flush-mounted boxes. Both controllers also support tunable white. Another advantage of DALIeco BT or DALI ACU BT is better handling during configuration. Preferences can be set directly on the luminaire, without needing to go back to a central control system or physically accessing the unit.

Compared to IR-based controls that need to be pointed directly at a receiver, users do not need a specialized controller. Everything is easily done using the control app, which gives users the power they need at their fingertips: intuitive light and color adjustment, saving individual light scenes and manually overriding the automatic controls.



Automatic for the people

For areas with high, but intermittent traffic, LUXeye, the Bluetooth®-enabled light management system for demand-based and energy-efficient lighting attachments, is perfect. With its integrated light and presence sensors, it's great for small offices and meeting rooms. Install LUXeye in areas with up to 20 luminaires like:

- Conference rooms
- Training rooms
- Offices
- Corridors

Choose from two versions. The dimmable LUXeye Sense DALI BT can control up to 20 luminaires via a DALI interface, while the LUXeye Sense 10A BT features a 10-amp switch relay.

The basic functions — light level and delay time — can easily be adjusted with a screwdriver, saving time. But for fine control, the LUXeye configuration app lets you adjust everything. With pre-defined profiles, you can select the best settings for different office applications, or create individual profiles according to the needs of your customers.

Proven flexibility, floor by floor

For larger spaces or whole floors with up to 1024 luminaires, a DALI PRO light management system is your best choice.

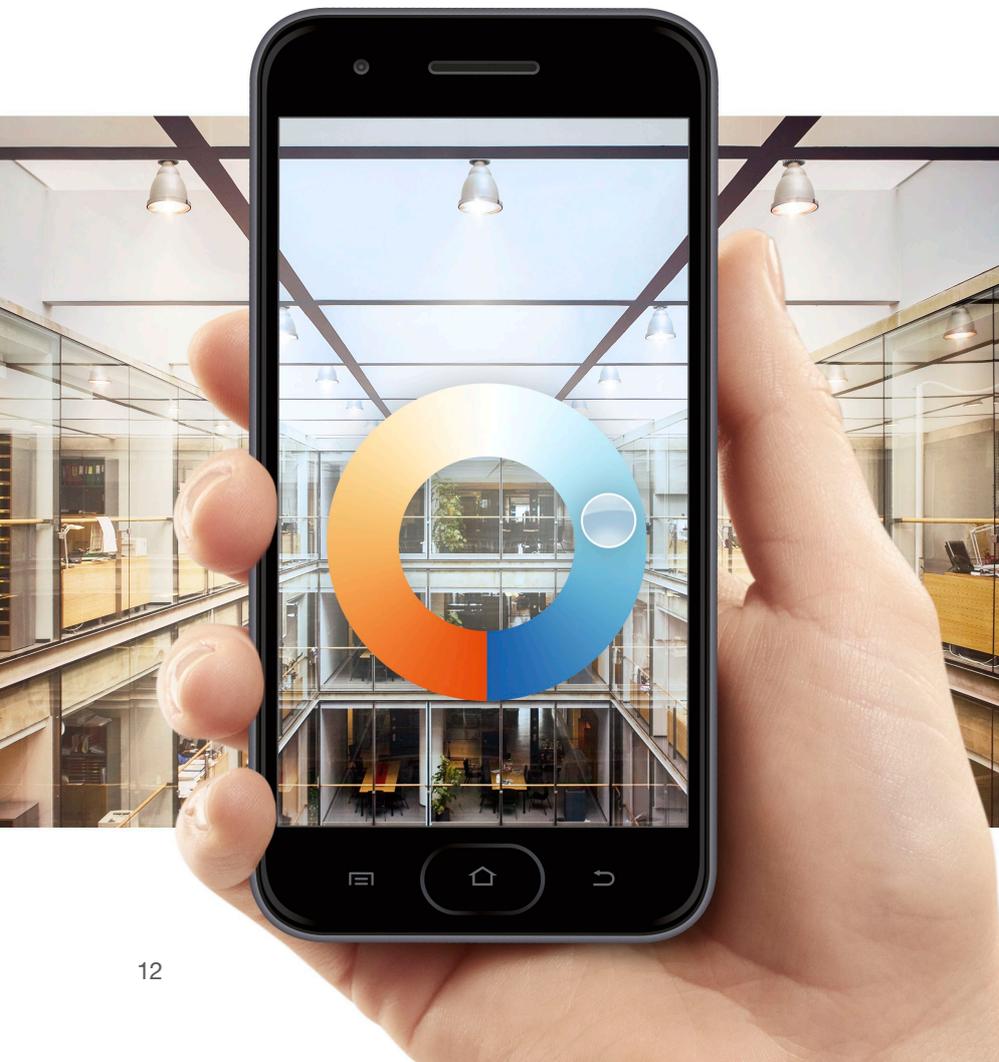
It's perfect for installations that require more room:

- Industry halls and warehouses
- Schools and colleges
- Larger retail spaces
- Medium-sized office buildings
- Multi-room office areas
- Places with more sophisticated lighting requirements

With its four DALI lines (up to 256 luminaires* per controller), the DALI PROFESSIONAL light management system offers a solution for virtually all requirements for lighting control in modern buildings. Multiple rooms and larger office areas are easy to set up and manage.

Lighting preferences and configurations can be defined using smartphone Wi-Fi. DALI PRO can create up to 30 user profiles and 250 individual elements for highly intricate scenarios, and controls each luminaire or group of luminaires in all rooms according to individual requirements: turn the lights on or off, dim them, change the light colors or adjust the color temperature. The integrated real-time clock allows the development of state-of-the-art HCL solutions or integration of dynamic elements like façade lighting or cove lighting in meeting areas.

With the Wi-Fi-enabled DALI PRO Control app, this flexible system can now be easily controlled via smartphone. The app's functions can also be configured with a PC. Compared to Bluetooth®, Wi-Fi increases the connectivity range of the app and allows parallel access to multiple users.



DALI PRO can boost your employees' productivity by keeping them focused with the optimal light temperature.



Large retail spaces benefit from the DALI PRO light management system to showcase your products in the best possible light.

Wi-Fi increases the range of the app and the number of luminaires controllable at once.

* One DALI ECG per luminaire

App control for tailor-made light management systems

Whether setting up a new lighting solution or upgrading an existing installation, you have a range of compatible products to choose from.

DALIeco BT

DALIeco BT Control is a DALI lighting control system that allows you to connect to sensors and to adjust individual parameters. It's perfect for controlling standard or tunable white LED drivers or any other DALI drivers, plug-and-play start-ups and comfortable smartphone control via a free-of-charge app.



In line with the successful OSRAM toolbox approach, installation and planning of a DALIeco BT system is flexible. Components can be mounted directly into the luminaire or a false ceiling (with accessories). Up to 32 LED drivers, four light and motion sensors and an unlimited number of push-buttons may be connected.

All components can be conveniently connected to each other via DALI. Sensors and push-button couplers are directly supplied with DALI and do not require additional main supplies.

DALI ACU BT

DALI ACU BT is a compact control unit that comes with a DALI channel for controlling standard or tunable white LED drivers. This new light management system is ideal for controlling DALI LED drivers and plug-and-play solutions.

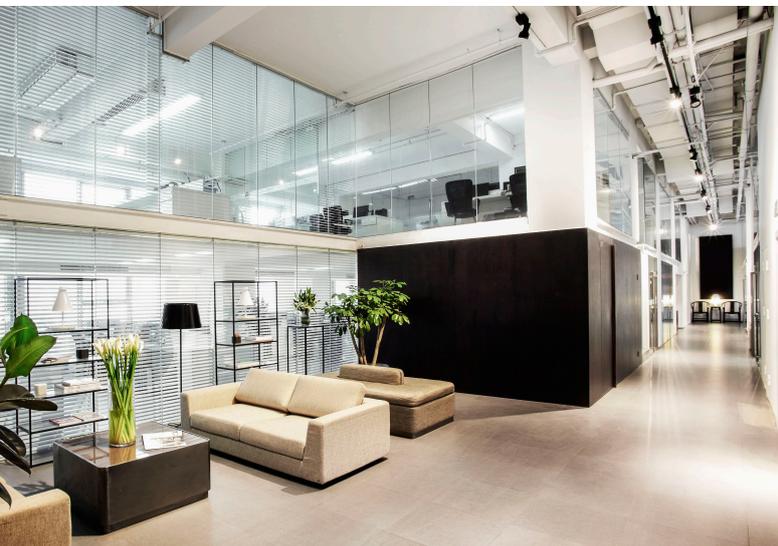
Thanks to its high flexibility, the DALI ACU BT can be installed either directly in the luminaire or in a flush-mounted box behind a conventional push-button. It supports up to 32 LED drivers, four light and motion sensors and an unlimited number of push-buttons. All components are connected to each other with DALI. Sensors and push-button couplers are directly supplied with DALI and do not require additional main supplies.



DALI PROFESSIONAL

The DALI PRO system is an intelligent, flexible light control system based on the DALI Standard for drivers. The DALI PRO system can be used in different ways, including manual light control with push-buttons for one room, or fully automatic presence control and daylight harvesting for a whole production hall.

Compared to conventional switchable solutions, DALI PRO could help achieve energy savings of up to 70%, with significantly higher lighting comfort for users. It is optimized for lighting control in industrial facilities and warehouses with up to 1024 DALI drivers. Many functions can be realized by simple networking of the central control unit to luminaires and sensors using DALI.





LUXeye dimmable and switch relay

The LUXeye is a lighting control unit with an integrated light and presence sensor, and a DALI broadcast output channel, that works out of the box and is easily operated using a push-button. Currently, there are two versions: while the dimmable version LUXeye Sense DALI BT can control up to 20 luminaires via a DALI interface, the second version LUXeye Sense 10A BT features a 10-ampere LED drivers-optimized switch relay. A LUXeye unit can be adjusted with a screwdriver for optimal set-up while the app additionally allows individual parametrization of all features as well as a convenient user control.

LUXeye Sense DALI BT

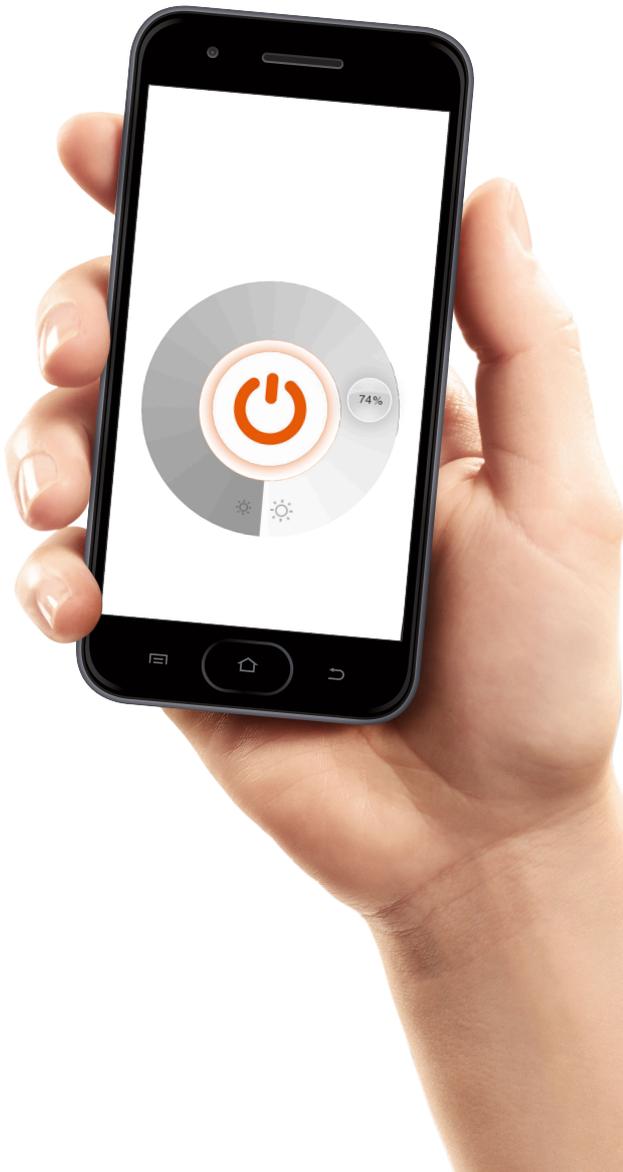
DALI interface for constant light control

- Up to 20 DALI luminaires can be connected
- DALI Broadcast (no addressing necessary)
- Possible connection of up to three additional DALI sensors and DALI push-button couplers

LUXeye Sense 10A BT

Optimized switch relay for LED load

- 10A switching contact also for high in-rush currents
- Connectable LED load up to 2300W
- Lifetime of up to 100,000 switching cycles



Casambi-compatible

The new OSRAM LED dimmer OPTOTRONIC BLE DIM (OT BLE DIM) can be controlled via an app. Simply connect your LED module and pair it with your smartphone or tablet. Combined with the new wireless control app from Casambi, no extra cabling, complicated wiring or gateway is required. This creates a wide range of possibilities for renovation projects including entertainment, restaurants, hotel rooms and retail. OT BLE DIM completes the LED strips system for flexible and individualized lighting solutions – driver, LED tapes, Flexessories. A compatible control system – all in one.

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