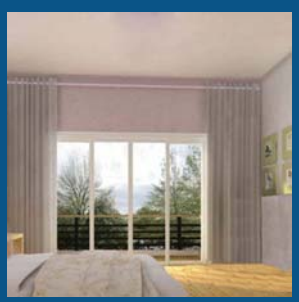
LiteController

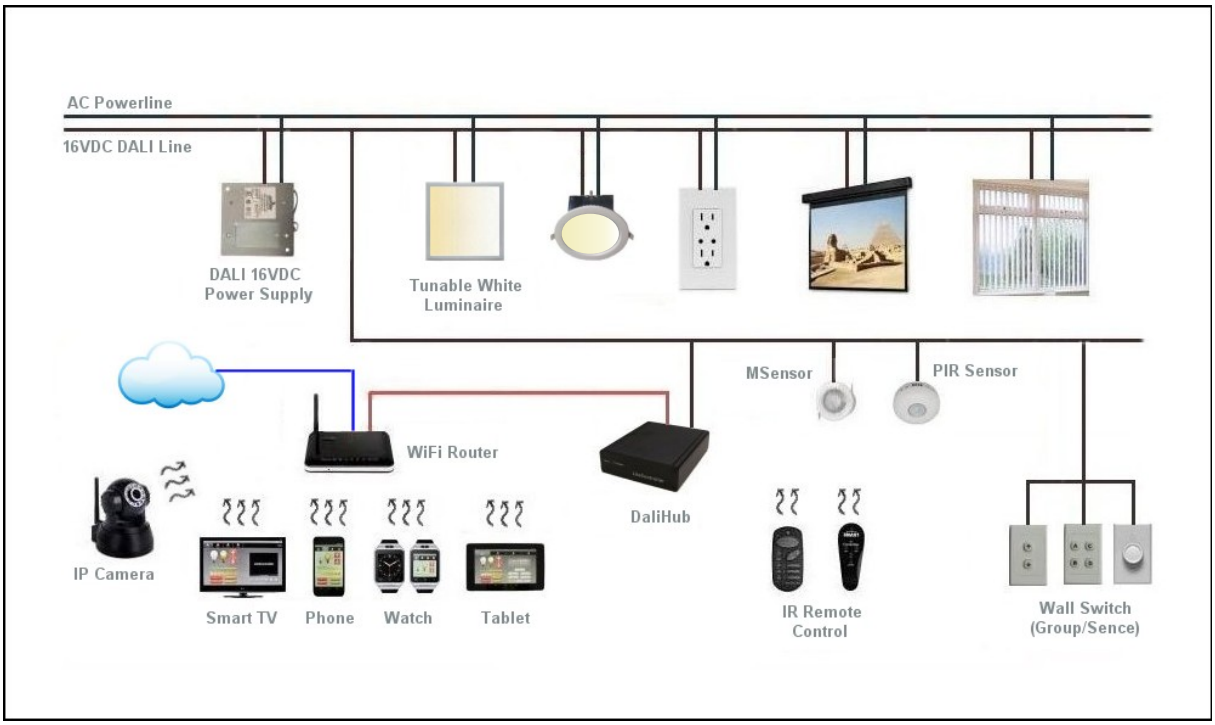
Controlling Light by Wi-Fi Mobile Devices



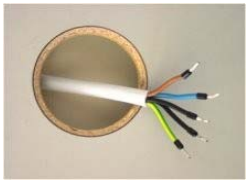
PRODUCT CATALOGUE

LiteController

LiteController offers an affordable and easy-to-use solution for DALI enabled luminaires and devices. The luminaires have the capability of dimming and adjusting the color temperature. The home/office automation devices (such as, motorized sunblind, projector, occupancy sensor, electrical outlet, and IP camera) can be integrated into the system as well. Since mobile Wi-Fi devices are becoming more and more popular, **DaliSuites** (mobile-based application software suites) developed by **LiteController** can be installed onto numerous types of mobile Wi-Fi devices to control luminaires and devices at your fingertips. After installing the application, the control can be done through Wi-Fi and mobile data network.



DALI stands for Digital Addressable Lighting Interface. It is a protocol set out in the International Standard IEC 62386 (formerly IEC 60929 Annex E) and NEMA 243-2004 for digital communication between the controller and luminaires /devices bi-directionally.



DALI enabled ballast/driver can be wired into the lighting system by Class 1 method with 5-conductor cable, or alternatively, by Class 2 installation of which the DALI low voltage signal wires must be routed through separate conduit alongside with the AC power wires.

Instead of being powered by AC input, the DALI enabled LED driver can be connected to an Emerge Alliance registered 24VDC power supply by cables or via Armstrong DC Flexzone Suspension System. The DALI signal is transmitted through another cable/conductor.

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DaliSuites & related products

DaliSuites (consisting of **DaliPhone**, **DaliPhone2**, **DaliVoice**, **DaliTablet**, **DaliWatch**, **DaliTV**, and **DaliConfig**) are connected through Wi-Fi router to **DaliHub** that translates the Wi-Fi signal into DALI protocol and then fed to the luminaires and devices. **DaliHub** is the gateway between the Wi-Fi router and DALI system, and its Plug-and-Play capability makes the Wi-Fi connection easy and hassle-free.

DaliPhone is a phone application designed for controlling the luminaires and devices (such as outlet and sunblind) in five rooms. The Plug-and-Play feature enables the phone to be connected seamlessly with the **DaliHub** at any time. The light intensities and color temperatures can be adjusted by scrolling the slider bar. Seven preset light level buttons are programmed for easy operation. Personalized settings of light levels and two scenes in each room are convenient and user-friendly. Also the status of luminaires and devices can be checked instantly.

DaliPhone2 is a remote version of **DaliPhone**, which is based on P2P (Peer-to-Peer) technology. No re-configuration of the Wi-Fi router at home for port-forwarding and DDNS (Dynamic DNS) are required. When the user is outside the house and wants to control the luminaires or devices, **DaliPhone2** can access **DaliHub** by 4G LTE/3G/GSM mobile data or public Wi-Fi hotspot. After authentication by a P2P server, the DALI command to control the luminaires and devices will be sent to **DaliHub** inside the house.

DaliVoice is a voice activated version of **DaliPhone**. The capability of recognizing spoken words relies on the speech-to-text engine installed on the phone. Once **DaliVoice** receives the speech input from the user, the DALI command will be sent to **DaliHub**. The user can also set an alias to name a specific room and scene for easy recognition.

DaliTablet has a feature of scheduling the timer to control the scenes. Three scenes in a 24-hour interval can be set to suit the user's desired Circadian Rhythm and to control the tunable white luminaires. Also, it is especially helpful when the user is out of town for vacations, the luminaries can be turned on/off automatically by the timer. When a visitor appears at the doorstep, **DaliTablet** can view who he/she is by capturing the images sent by an IP camera.

DaliWatch is a Wi-Fi enabled wrist watch with touch screen capability, which controls the luminaires and devices. Touching the buttons at the screen sends out the DALI command to **DaliHub** via the Wi-Fi router. Its Plug-and-Play feature enables the watch to connect seamlessly with **DaliHub** anytime.

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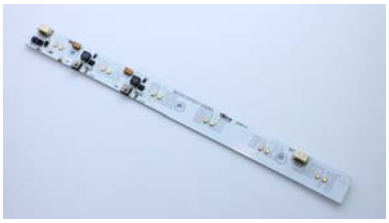
DaliTV works with a TV remote control to control the luminaires and devices through an Android enhanced TV or an Android TV box being connected to an HDTV set. It also interfaces with an IP camera to view the visitors at the doorstep. **DaliTV** is specially designed for application of home theatre equipped with a projector and rolling screen.

DaliConfig is a Windows based GUI (Graphical User Interface) application, which sets the DALI parameters to maximum 64 luminaires and devices in the DALI system via **DaliHub**. Settings of Group, Scene, Fade time, Fade rate, Max level, and etc. can be changed easily and at any time the user wants. Installers can use the Windows Tablet to wirelessly install/commission and inspect the luminaires and devices.

Tunable White LED modules

DALI device type 8 (Color control) as stipulated in IEC62386-209:2011 works well with the tunable white application. The light intensities and color temperatures of the tunable white LED modules are programmed easily by an application offered by **DaliSuites**. So a personalized lighting environment can be set to suit the user's desired Circadian Rhythm.



TWstrip is a 12" length strip module being soldered with 12 pieces Cree XPG lamps, which are grouped in two separate strings. One string of six LED lamps is of 2700K CCT, and the other string of six LED lamps is of 6500K CCT. By individually adjusting the light intensities of those two LED strings, the desired color temperature can then be achieved.

TWpuck is a 4" diameter round module soldered with 15 pieces Cree XPG lamps, which are grouped into two separate strings. One string of eight LED lamps is of 2700K CCT, and the other string of seven LED lamps is of 6500K CCT. By individually adjusting the light intensities of those two LED strings, the desired color temperature can then be achieved. 40 degree optics are available upon request.

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