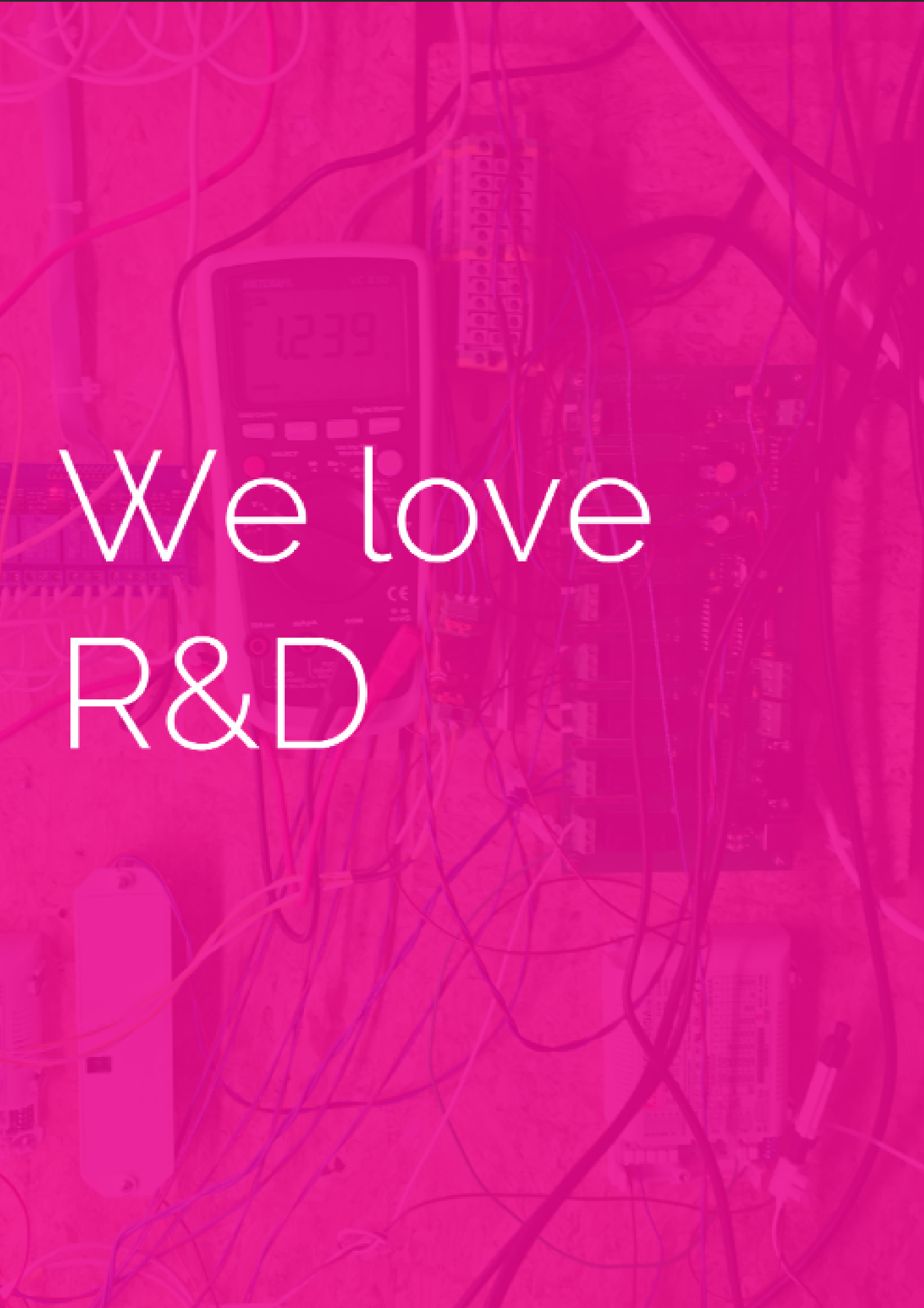# mymesh
by Chess

Guide:
How to select a wireless light control system

We love
R&D

About Chess

In 1988, Chess started as a design and development studio to create hard-and software solutions for the professional market.

"As engineers at heart, we firmly believe that technology makes the world more safe, efficient and sustainable."

After almost two decades of active development, our founders foresaw the immense potential of having wireless infrastructures in 2003. Back then, there was one major problem; scalability. No network protocol could connect thousands of devices. It was the start of Mymesh's development.

Engineered for any environment

Connect any light

Anywhere.

Mymesh easily lets you connect, monitor and analyze large wireless networks. Derived from decades of experience, the robust, scalable and secure characteristics make Mymesh the best lighting control application for the public, work, and industrial space.

The next
wave

How to select a (wireless) light control system?

Are you struggling to choose a light control system for your general lighting?
The decisions are not too hard if you know what to look at. This guide will help you to
select and assess a wired or wireless light control system using 10 different assessment
criteria:

1. Required light control and light management functionality.
Discuss the light control requirements with the real estate owner or his consultant.
a. Automatic light control functions: scheduling with a timer, daylight harvesting
with a light sensor, presence detection with a motion sensor
b. Manual light control functions: light switches for on, off, dimming, scenes and
multi-way switching
c. Central light control options: overrule functions, day / night changeover on
floor or building level
d. Light management functions: monitoring of energy consumption and
status/failures lighting system (1st line maintenance) , remote control,
commissioning and network diagnostics (2nd line maintenance)

2 System overview and configuration.
What light control products are used and how is the network structure (topology)?
a. Determine how the products need to be connected to each other (wired or
wireless)
b. Determine how the network is configured. One network, multiple separate
networks or hybrid solution that interconnect networks in the cloud.

3. Scalability.
How scalable is your light control solution?
a. Residential use 0 – 100 luminaires
b. Small business use 100 – 250 luminaires
c. Professional use 250 -10,000 luminaires

4. Security.
How is your light control solution protected against unauthorized use.
a. Open source or proprietary solution in respect to interoperability?
b. What security measures are taken? For example: network encryption,
security key generation & management

5. Future proof.
How flexible is the light control system in respect of modifications, expansion or new
functionality?

Power is data,
Data is power

6. User interface.

What user interfaces are required to control, commission or manage your network?
 a. Switches, End-user App
 b. Commissioning App / Tooling
 c. API for data transfer to third party IoT platform
 d. Light Management dashboard

7. Robustness/resiliency of the system configuration.

 a. Try to avoid single point of failure components that can shut down the whole system
 b. Self-organising and self-healing capabilities of communication between components

8. Autonomy

Do you have a self-operating sensor & control system or do you require interfaces to cloud or local servers?

9. Software updates.

 Does the light control system supports Over-the-Air network updates, 1-on-1 component updates or not at all?
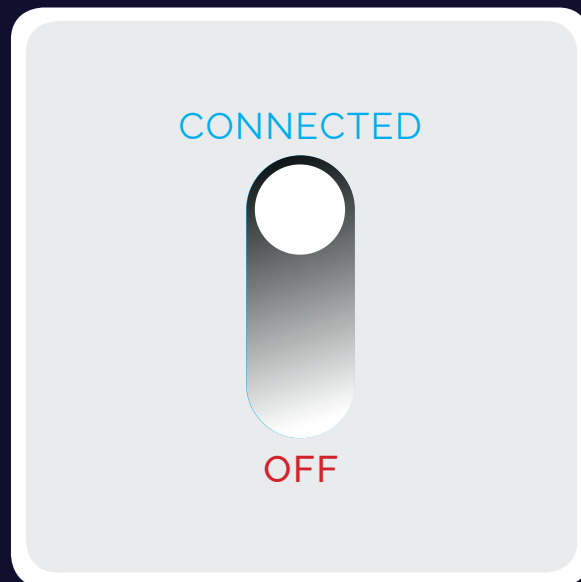
10. Ease of installation

 a. How to install the light control components?
 b. Do you need additional control cables?
 c. How to commission your light control system?

Depending on your application, some criteria are more or less important. Dive deeper into subjects that are relevant to your project.

Now you are prepared to start asking questions to your light control system supplier.

Switch

Connected is the new on.

CONNECTED

OFF

[click on the switch]