

Lighting Design Concept

Lighting a residential house facade and its landscape in a quiet residential zone is quiet challenging, as it should impress without annoying other neighbors. So colours, intensities and directions of fixtures should be carefully chosen and optimized in our design. In addition, as the lighting design effects users' moods and reflects their beliefs and personalities, our design was based on reinforcing of "Family Life Principles" through lighting the main facades; these principles are:

- Deep Ground Basis
- Communication
- Same Destiny and future

While other outdoor landscape and different areas were been treated in the design as per their usage in each mood.



Scenes & Modes

For the functional targets of the lighting design, and the practicality use of it, four different modes were produced for the usage of the outdoor area, and accordingly the facades lighting design was related to them. However, the complete façade design is realized in mode "General- Every Day - All Night". Lighting calculations and simulations was made to ensure sufficient lighting and optimization of other lighting parameters.

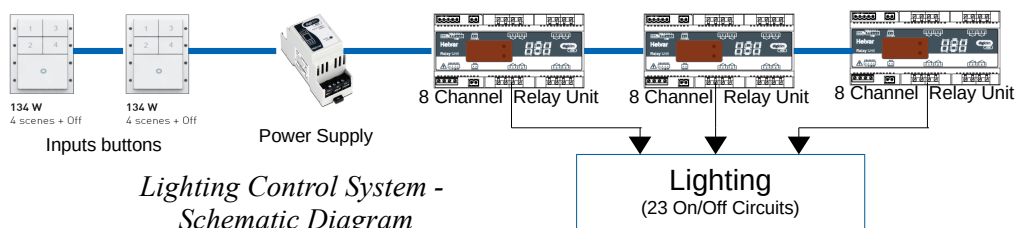
Lighting Control System

Simple manual controlling system was the initial design that can be upgraded later. DALI system with switching modules can do the job, and still can be upgraded if any switchable load was modified to a dimmable load or a new dimming load was added.

The lighting schedule for the four modes and the 23 lighting load circuits was simply produced from the Dialux file, which then facilitates the system implementation.

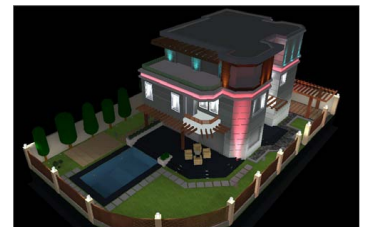
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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II	/	/	/	100 %	100 %	/	/	100 %	100 %	100 %	/	/	100 %	/	/	100 %	100 %	/	100 %	100 %	/	0 %	
III	100 %	100 %	/	100 %	100 %	100 %	/	100 %	/	100 %	/	/	100 %	100 %	100 %	/	/	/	100 %	100 %	100 %	0 %	
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Lighting Control Schedule

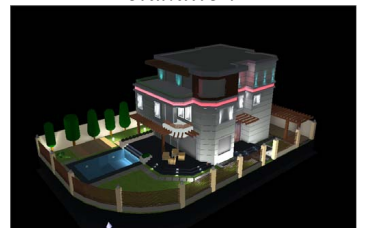


Four Lighting Modes

General – Every Day – All Night



Relaxation



Family Outdoor Activities
Kids' Safety



Party & Big Events

