



Overled®
| What's next? |



COMPANY PROFILE 2025

Light, engineered in Italy.

DDS Elettronica srl · Overled® — electronics and LED lighting since 1993

La luce, progettata in Italia · Elettronica e illuminazione LED dal 1993

AT A GLANCE · IN SINTESI

Thirty years of electronics, one passion: light.

1993

Founded in Modena, Italy

Fondata a Modena

16 + 30

Employees and external
partners

Dipendenti e collaboratori

80+

New projects every year

Nuovi progetti ogni anno

2

Lighting patents

Brevetti nel lighting

1,700 m²

Production area

Superficie produttiva

120K

Components placed per hour

Componenti montati all'ora

170M

LEDs mounted every year

LED montati ogni anno

1,500 mm

Maximum PCB length

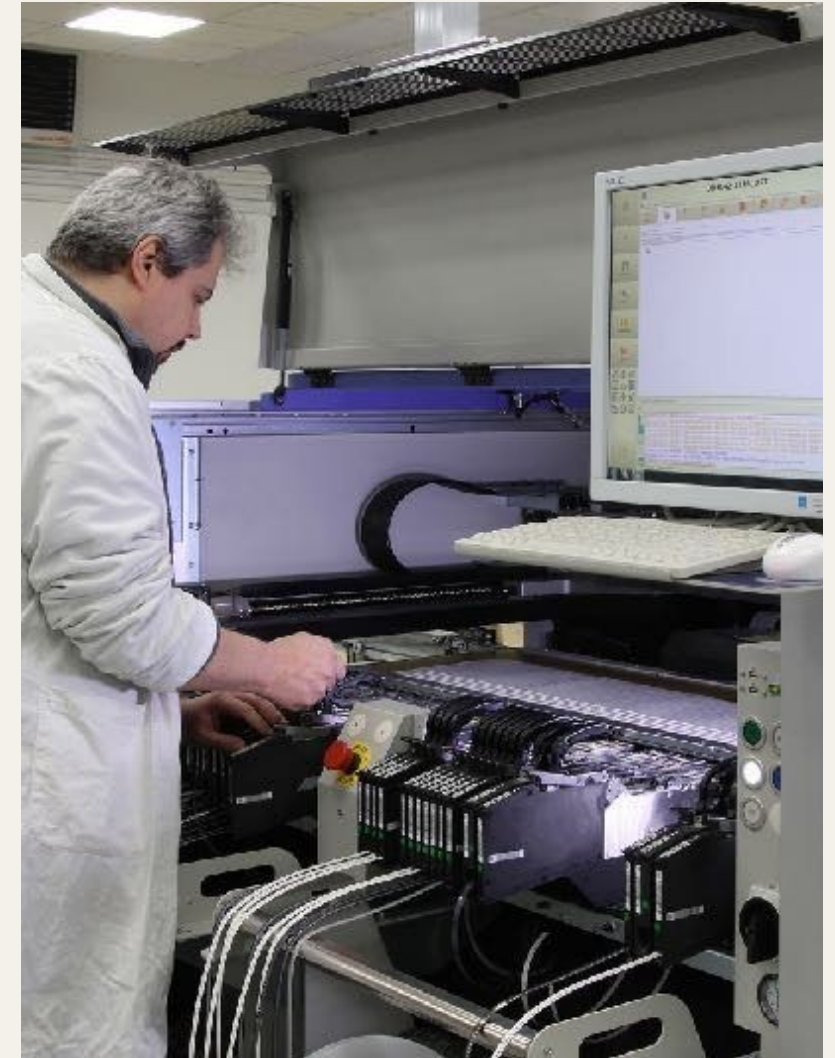
Lunghezza massima schede

Specialists in designing innovative LED solutions.

We develop custom projects for the leading names in world lighting: over 80 new projects a year, spanning DMX/RDM and DALI controllers, Art-Net nodes, wireless systems, power supplies, smart lamps, flexible LED strips and bespoke applications.

Our goal: to give planners, designers and architects a decisive tool for the beauty, uniqueness and distinction of their products.

Progettiamo soluzioni su misura per i più importanti nomi dell'illuminazione mondiale: oltre 80 nuovi progetti ogni anno.



OUR PHILOSOPHY · LA NOSTRA FILOSOFIA

What's next?

It's the question we ask ourselves every day. Following what's new, anticipating innovation and turning it into products: this drives every project we take on.

È la domanda che ci facciamo ogni giorno: seguire le novità e trasformare l'innovazione in prodotti.

02 — OUR STORY · LA NOSTRA STORIA

We control 100% of the process.

Controlliamo il 100% del processo, dalla R&S alla produzione.

Founded in 1993 to design electronics for industry, DDS Elettronica launched the Overled® brand in 2002, dedicated to LED applications. LED lighting has been our specialty ever since: experienced engineers and a state-of-the-art production area work under one roof.



From industrial electronics to light.

1993

Founded in Modena as an electronic design house.

Fondazione a Modena.

1996

First in-house circuit assembly equipment.

Primi impianti di montaggio.

1998

Electronics for cooking hobs based on 16-bit microcontrollers.

Piani cottura con MCU a 16 bit.

2000

Motor control for professional fixtures: DMX, Art-Net, RDM.

Controllo motori per proiettori.

2002

The **Overled®** brand is born, dedicated to LED lighting.

Nasce il brand Overled®.

2004

First standard catalogue: DMX/RDM controllers, drivers, power supplies, LED boards.

Primo catalogo standard.

Growing capacity, new technologies.

2011	2013	2017	2018	2019	2020
Production expanded: 5 pick & place lines for PCBs up to 1,500 mm.	Finished luminaires and products for architectural lighting.	Flip Chip and DIE LEDs: custom COBs made in Italy, high CRI (R1–R15).	Research on UV-A (curing) and UV-C (sterilisation).	Embedded SPI systems for LED control.	Custom SPI LED bars and the first Art-Net to SPI converter.
<i>Ampliamento produttivo.</i>	<i>Prodotti per l'architettura.</i>	<i>COB custom Made in Italy.</i>	<i>Ricerca su UV-A e UV-C.</i>	<i>Sistemi SPI embedded.</i>	<i>Primo convertitore Art-Net → SPI.</i>

Pixel control, efficiency and new capacity.

2021

RGBW-over-SPI conversion software and the first SPI catalogue line.

Software RGBW su SPI.

2022

Stepper-motor modules for 3D image displays.

Moduli passo-passo per immagini 3D.

2023

SIMO systems: high-power RGBW control with a single coil, for smaller, cheaper PCBs.

Sistemi SIMO a induttore singolo.

2024

12 m seamless RGBW SPI pixel strip (8 W/m) and a 70 W/m rigid RGB bar.

Strip SPI RGBW da 12 m.

2025

New 75K CPH pick & place dedicated to LED assembly.

Nuova pick & place da 75K CPH.

People are the engine of our growth.

16 direct employees and around 30 external partners: since day one, our people have guaranteed the quality of our service.



Technical support

Engineers with many years of hands-on experience, constantly trained and assessed to answer even the most demanding requests.

Supporto tecnico



Research & Development

A team of developers who track the latest technology and tackle every challenge with maximum efficiency.

Ricerca e sviluppo

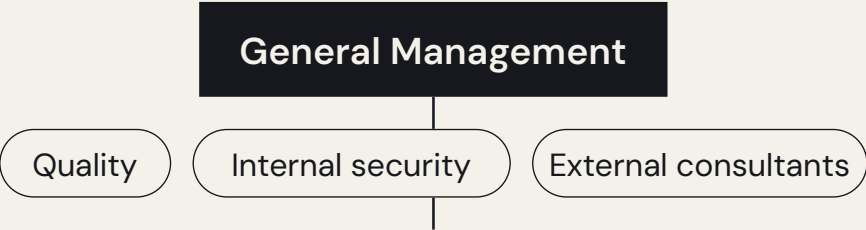


Marketing & Sales

We listen to the real needs of customers and partners and propose tailor-made solutions with the best cost-benefit balance.

Marketing e vendite

A lean, integrated structure.



Production	Finance	R&D Hardware	R&D Software	R&D Mechanics	Sales
SMD assembly	Warehouse manager	Hardware engineers	Software engineers	Mechanical engineers	Inside sales
Pick & place technicians		Master design engineers			Field sales agents
SMD product testing	Warehouse				Local distributors
Electronics lab	Shipping				
Board testing					
Purchasing					

Certified, patented, international.



Certifications

UL certified and CE marked products.
UL certification also available for
custom projects.

Certificazione UL · Marcatura CE



2 patents

Two patents on lighting applications,
the result of our in-house research.

Due brevetti nel lighting



Export

From Italy to the Middle East, Spain,
Germany and the United Kingdom.

Medio Oriente · Spagna · Germania · UK

We work with the leading players in world lighting. For confidentiality, their names stay with us.

04 — MANUFACTURING · PRODUZIONE

A state-of-the-art
production area in
Modena.

5 SMD pick & place lines

5 linee pick & place SMD

Long boards up to 1,500 mm

Schede lunghe fino a 1.500 mm

Up to 120K components/hour

Fino a 120K componenti/ora



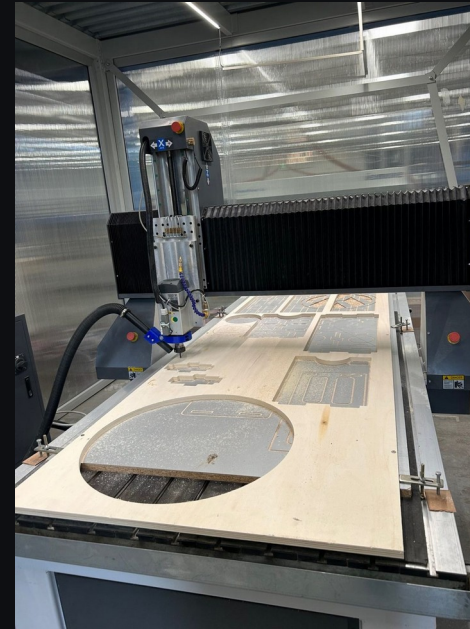
QUALITY & MACHINING · CONTROLLO E LAVORAZIONI

Verified quality, in-house machining.



X-ray inspection

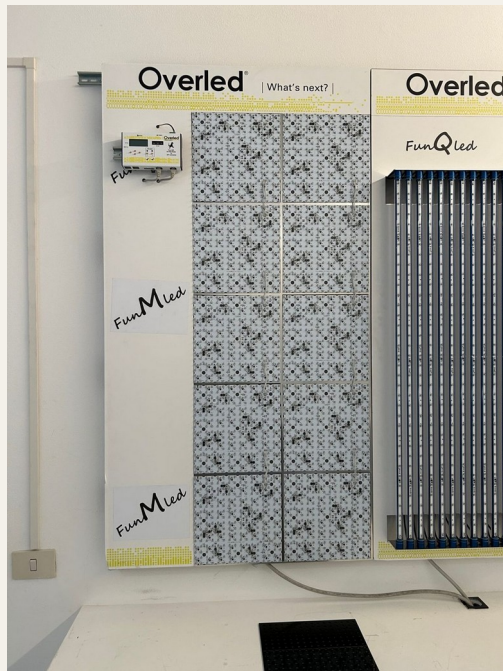
Solder void testing · Ispezione a raggi X



CNC router

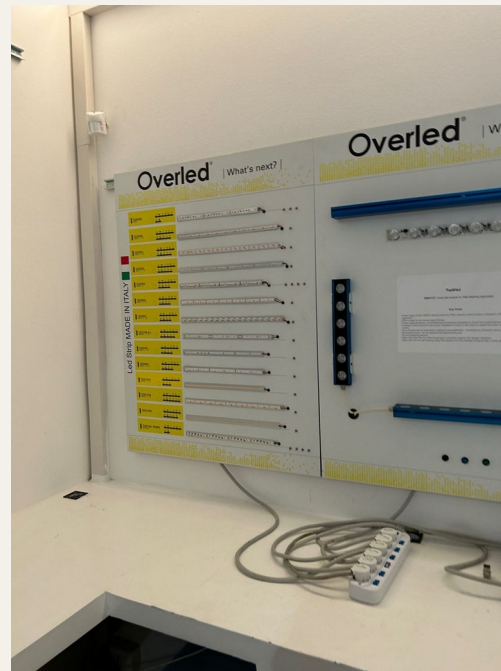
In-house mechanical machining · Lavorazioni interne

Every technology, tested before it reaches you.



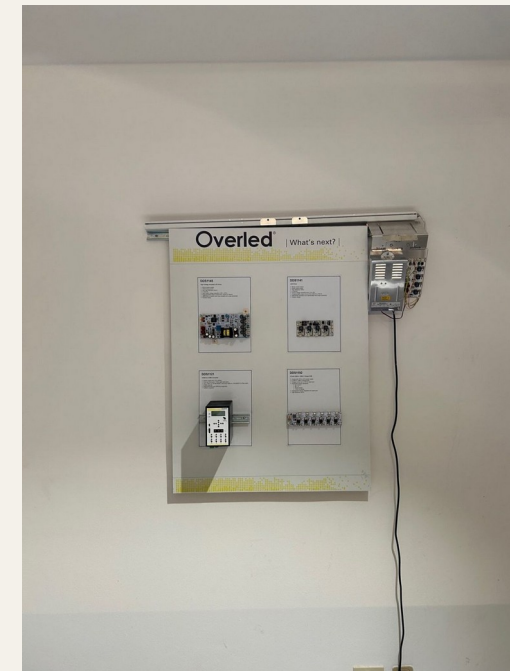
SPI-based devices

Dispositivi SPI



LED strips

Strip LED



High-power DMX controllers

Controller DMX di potenza

We speak every language of light.

DMX512 · RDM

Bidirectional control and configuration

Art-Net

DMX over Ethernet

DALI

Dimming and building automation

SPI

Addressable pixel control

PWM

High-frequency dimming

0–10 V

Analogue dimming

Wi-Fi

Network and app control

Bluetooth

Proximity smart lighting

ZigBee

Wireless mesh networks

Sub-GHz

Long range, low power

Qi Wireless

Wireless charging

UV-A · UV-C

Curing and sanitisation

Casambi

Bluetooth mesh wireless control via app

Matter

Interoperable smart home standard

STANDARD PRODUCTS · PRODOTTI STANDARD

A complete range, from circuit board to luminaire.



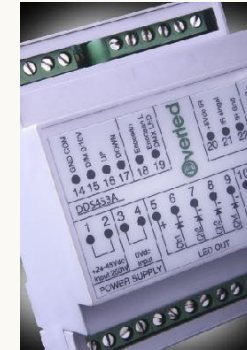
LED strip IP20

Strip LED IP20



LED strip IP67

Strip LED IP67



Drivers & controllers

Driver e controller



Custom OEM boards

Schede OEM su misura



Accessories

Profili, alimentatori, driver

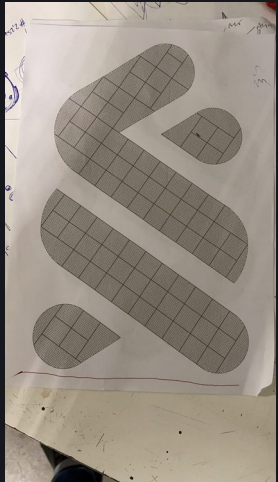


**Architectural
luminaires**

Apparecchi architetturali

FROM IDEA TO PRODUCT · DALL'IDEA AL PRODOTTO

SBC Bank signage: one team, from concept to first prototype.



01

Specs definition

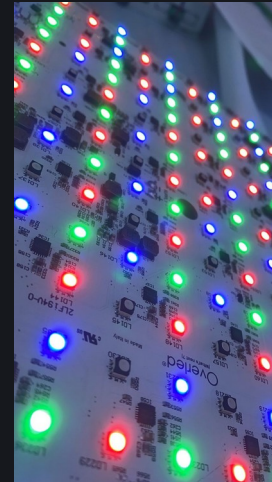
Specifiche



02

Mechanical mock-up

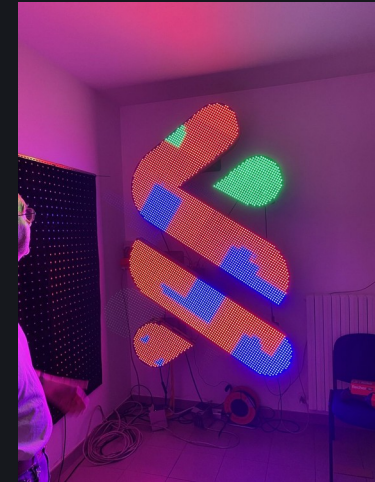
Mock-up meccanico



03

Electronics & board assembly

Elettronica e assemblaggio



04

First mock-up

Signs of 4 · 6 · 10 · 15 m

Light that cures and sanitises.

UV-A · 380–400 nm

Curing and polymerisation

In a few seconds, glues, paints and polymers become dry and abrasion-resistant, ready for the next process step.

Indurimento e polimerizzazione

UV-C · 254–290 nm

Sanitisation and sterilisation

Absorbed by DNA, UV-C radiation neutralises viruses, bacteria, yeasts and fungi within seconds.

Sanificazione e sterilizzazione

Solutions are almost always **custom**, designed and built around the customer's application — from food & beverage to air purification.

Fewer chemicals, healthier spaces.



Food line sanitation

Food production lines sanitised with UV-C light, reducing the chemicals normally used.

Sanificazione linee food



Room purification

Healthier shops, sports centres, medical practices, supermarkets and offices.

Purificazione ambienti

With Overled®, light becomes functional.

Architecture: light that brings an idea to life.



Facade lighting

We help architects, lighting designers and builders illuminate every project. Without compromise.



Architectural lighting

Buildings, bridges, staircases: volumes and spaces enhanced by intelligent, technological light.

MARKETS · MERCATI

Hospitality: light that creates emotion.



Cruise ships & yachts

Lighting for public areas and RGB entertainment, connecting every space to an emotion.



Hotels & hospitality

Harmonious spaces that leave guests wanting to return. Light that is pleasant and relaxing.

07 — SELECTED PROJECTS · REFERENZE

From the 9/11 Memorial to Italy's museums.

New York · Moscow · France · Genoa · Modena · Ferrara · Rimini · Maranello · Costa Cruises

A nighttime photograph of the New York City skyline, featuring the Freedom Tower (One World Trade Center) prominently on the left. Two powerful, bright white light beams, representing the September 11 Memorial, rise from the lower right and extend high into the dark, cloudy sky. The city lights are reflected in the water in the foreground.

NEW YORK · USA

September 11 Memorial

Control electronics for xenon lamps: microstepping motor focus control and DMX pan & tilt.

Memoriale dell'11 settembre · elettronica di controllo per lampade allo xeno



NEW YORK · USA

Corner illumination for a shop

56,000

RGB pixels

36,000 W

total power

Art-Net control with a custom SPI converter and
made-to-measure luminaires.



MOSCOW · RUSSIA

Moscow Tower

4,000

DMX RGBW luminaires

Apparecchi DMX RGBW

Art-Net to DMX/RDM converters managing the entire installation.

SELECTED PROJECTS · RGBW FACADES

Facades that change colour.



France

RGBW LedLine with SPI protocol and T-REX SPI controller.



Genoa, Italy

RGB wall washers and Capybara Art-Net node.

SELECTED PROJECTS · EUROPE

New facades across Europe.



Brno · Sports Hall

Dynamic RGB lighting of the facade bands.



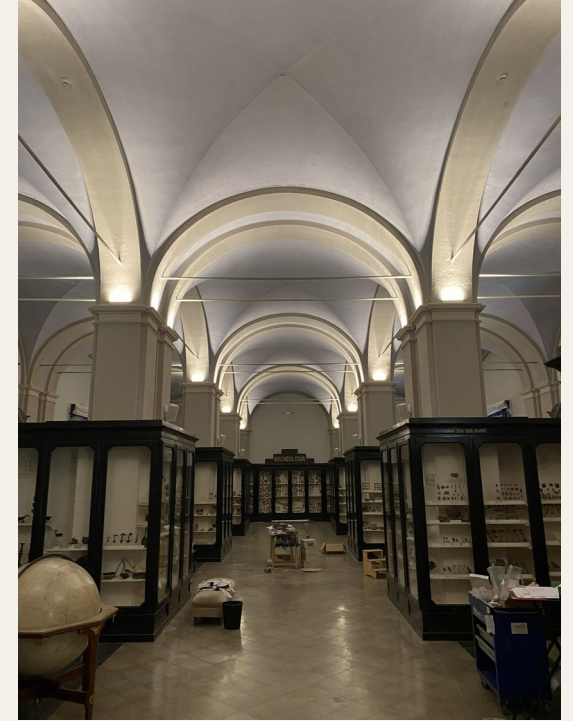
Brussels · Building

Linear white lighting of the facade.

MODENA · MUSEUM

Museums: light in service of the works.

Lighting for the halls and display cases of the Modena museum.



SELECTED PROJECTS · MUSEUMS

White light for frescoes, RGBW for emotion.



Ferrara · Schifanoia Museum

White illumination · Luce bianca



Rimini · Museum

RGBW illumination · Illuminazione RGBW

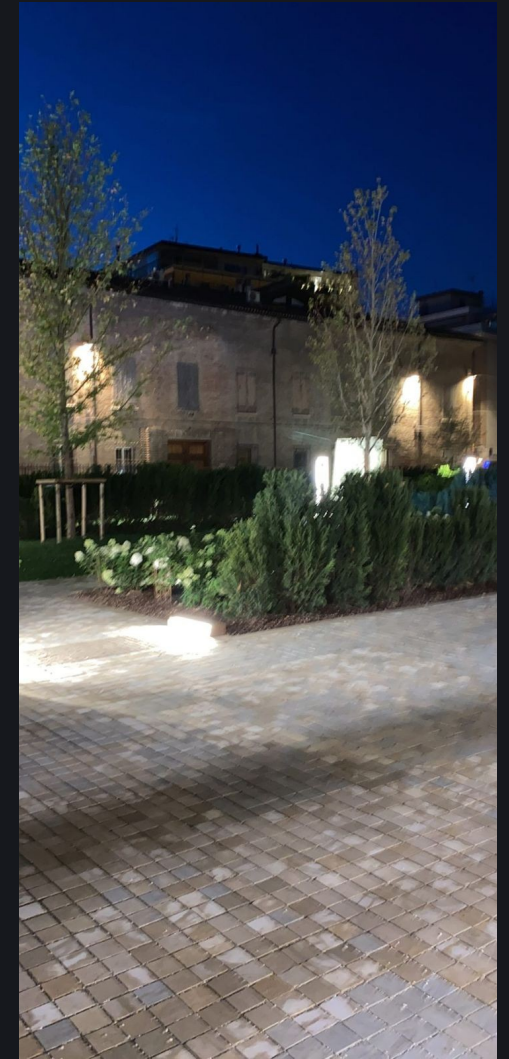
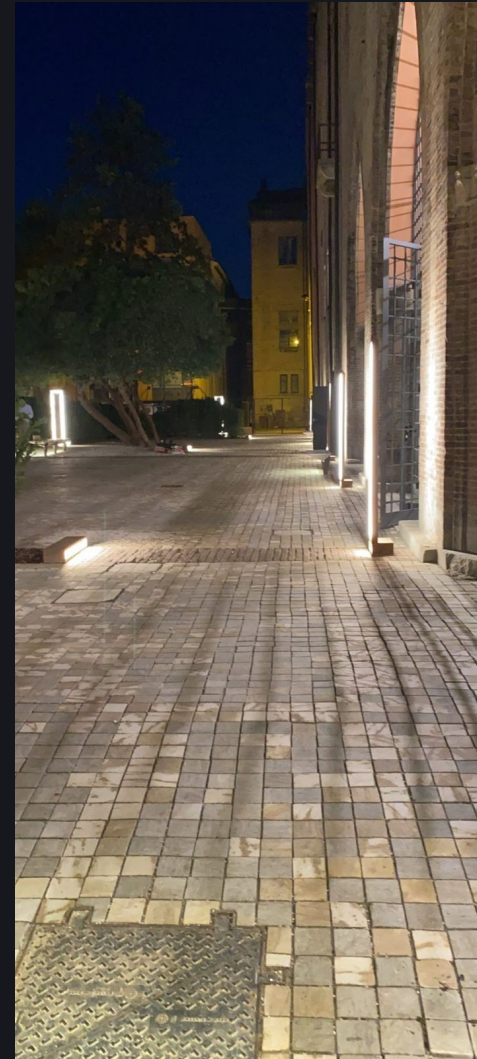


RIMINI · ITALY

Outdoor museum

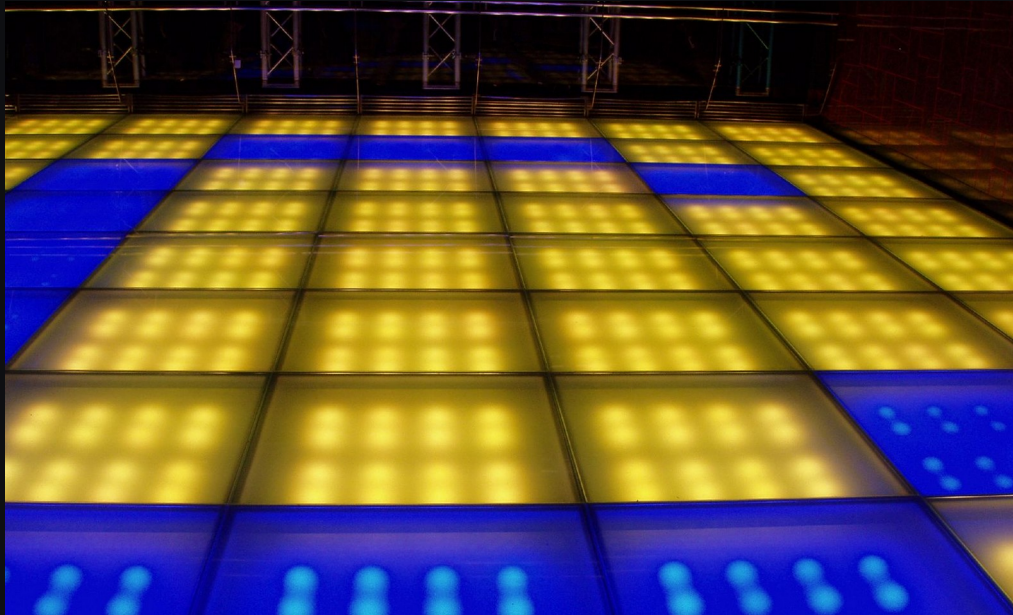
Paths, pools and gardens brought to life by light after dark.

Museo all'aperto



SELECTED PROJECTS · ENTERTAINMENT & PUBLIC SPACES

Dynamic colour, at sea and in town.



Costa Cruises · dance floor

RGB boards with built-in DMX and DDS561 DMX/RDM PSU.



Maranello, Italy · roundabout

RGB wall washers and Capybara Quad Art-Net driver.

SELECTED PROJECTS · OUTDOOR & RETAIL

From public parks to the bar counter.



Moscow · public park

IP65 flexible LED strip.



Italy · RGB bar

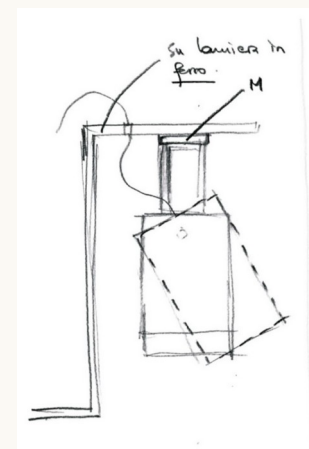
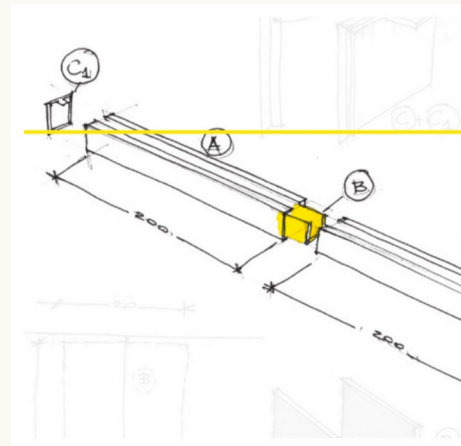
Custom RGB electronics with embedded DMX/RDM.

08 — CUSTOM MADE · SU MISURA

Not in our catalogue? Let's create it together.

Showing everything we do is impossible: it would take a catalogue the size of a library, and many of our projects are made to measure for our customers and remain confidential.

Non lo trovate a catalogo? Parliamone e creiamolo insieme.



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CONTACT · CONTATTI

Let's talk.

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Light, engineered in Italy since 1993.

