

# The Bonifacio Citadel, large-scale quadrichromy with an LED control system

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On its 40th anniversary, LEC looks back on its contribution to lighting with Régis Clouzet: the Bonifacio citadel, a pioneering project in quadrichromy .

« We are very amazed by the result: the stone is softly backlit along the whole length of the bastion. »

Régis Clouzet - Lighting Designer

In 2015, Bonifacio dreamt of being Corsica's 'City of Lights'. To achieve its dream, it decided to showcase its magnificent medieval citadel which attracts 1.8 million visitors each summer.

Régis Clouzet explains how he succeeded in illuminating the entire [Bonifacio Citadel](#), which had **never been done before**.

## Régis Clouzet recalls his collaboration with LEC

I knew the city of Bonifacio like the back of my hand, and I knew there would be a plan to light the citadel. When I replied to the tender, we had just completed the [Saint-Jean Fort in Marseille](#) with LEC. This collaboration on a similar project surely caught the attention of the board.

What appealed to me from the start was giving a **visual continuity** to this long stone ribbon that is the Bonifacio Citadel. I wanted to bring to life the **differences in materials** and highlight the **various details** of this majestic site.

The stakes were huge because this had never been done to a satisfactory standard. The main obstacle was the long central slope, the **Montée Saint Roch**, for which no **technical solution** had been found.



*Illuminating the Montée Saint Roch in Bonifacio, a challenge finally overcome.*

## Using quadrichromy for a spectacle that evolves all year round

My design lies somewhere **between longevity and performance**. I wanted to create a strong or soft light, depending on the season, using [quadrichromy](#) and a [control system](#).

Moreover, the **visitor must play a part** and participate in the project, and not just stay on the port. The idea is to draw attention to the fort, so they experience the Bonifacio Citadel from a new angle.

We decided to use a path of light to invent a **new three-dimensional effect** for this majestic site, like a **light ladder** that guides viewers from the marina to the upper town.

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References

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## An ambitious use of LED quadrichromy

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We wanted **precise colour changes** and to create **different qualities of white** throughout the year. To highlight the stone's quality and colour, we chose a **quadrichromatic projection** to have the widest spectrum possible.

I knew that any good manufacturer was pretty much capable of making that colour, but it was difficult to **get the white tones** to illuminate the stone. Yet, LEC achieved just that thanks to their ability to adapt their creations to our specific needs.

⇒ Did you know?

In 1977, LEC decided to focus all its attention on LED technology. These decades of dedicated expertise have allowed the company to meet strict requirements in terms of reliability, efficiency, maintenance and aesthetic appeal. Relive with us [40 historic years](#) devoted to LED technology and the lighting industry.