



Wirelessly control LED light

The Cathedral of Siena, with its characteristic facade clad in dark green and white marble, is one of Italy's most important Gothic buildings and the symbol of the city. Inside the cathedral, visitors are amazed by the unique mosaic floor consisting of more than 50 ornately decorated marble surfaces. ERCO lighting tools illuminate these precious cultural treasures from a distance of over 25m. Modern LED and control technology enable the light to be simply controlled wirelessly via smartphone or tablet.

The Cathedral of Siena towers over the old town district on the square bearing the same name. The brick construction, clad in dark green and white marble, is one of the most important examples of Romanesque-Gothic architecture in Italy. The cathedral not only impresses worshippers and visitors by the size of its nave – one of the most magnificent art treasures is the mosaic floor with works of coloured marble in the interior. More than 50 panels with various inscriptions characterise the image of the cathedral and are a point of attraction for people from all over the world. Lighting designer Marco Nereo Rotelli was awarded the task of relighting this unique form of art on the floor and specified high-precision ERCO lighting tools for the purpose.

optics are required, as only in this way can high illuminance levels be efficiently generated on the target surface. Stella spotlights with 2972lm and narrow spot light distribution of less than 10° are predestined for such lighting tasks. The marble surfaces are accentuated crisply and precisely with the significance of the surrounding areas receding into the background. A high-contrast display with museum character is thus created. The lighting designer Marco Nereo Rotelli deliberately specified a 3000K warm white light colour, not only to faithfully reproduce the warm colour tones of the marble but to also create a contemplative atmosphere.

Accentuating details with Parscan
 Parscan spotlights with either 2149lm or 4198lm and 10-20° spot light distribution complete the lighting concept. Mounted in singlets at different locations in the cathedral interior, they accentuate the chapel as well as inscriptions and walls. Thus interesting details

Project data

Client:	Opera Laboratori Fiorentini – Civita Group
Lighting design:	Marco Nereo Rotelli
Photography:	Frieder Blicke

Light from a height of 25m

The special challenge of the project lay in the installation height of the luminaires – over 25 metres. For such distances luminaires with high luminous flux and precise projecting

are rendered visible for visitors, inviting them to investigate and discover this unique architecture.

State of the art light control in historic architecture

Installation at existing mounting locations, partly using an old pulley block system, and the challenge of using the existing wiring presented the lighting designer with a particularly tricky task. What control options are there if no further cable routing is possible? ERCO offers an uncomplicated solution in the form of Casambi Bluetooth. With this control method ERCO luminaires are switched and dimmed individually and wirelessly via smartphone or tablet. Because the luminaires themselves form a Bluetooth mesh, even the long distances in the central nave of the cathedral pose no problem. The

control signal is transmitted to the nearest luminaire in the network and communicated further via this luminaire. Thanks to smartphone or tablet, programming can be carried out from a central point as well as from the actual position of the observer.

Simple dimming of single spotlights via app

Not all of the marble surfaces are uncovered and open all year round due to conservation reasons, and so they do not have to be continuously brightly illuminated. With the Casambi app, individual spotlights can be dimmed at any time and without effort by smartphone or tablet. This automatically directs the gaze of the visitors to the open, still brightly illuminated sections of the marble floor.

Luminaires used in the project



Parscan



Stella

About ERCO

The ERCO Light Factory in the German town of Lüdenscheid is a leading international specialist in architectural lighting using LED technology. The family business, founded in 1934, now operates as a global player with independent sales organisations and partners in 55 countries worldwide. Since 2015 ERCO's portfolio has been 100% LED. With this in mind, ERCO in Lüdenscheid develops, designs and produces digital luminaires with focus on photometrics, electronics and design. Working

closely with architects, lighting designers and engineers, ERCO develops lighting tools used primarily for applications in the following fields: Work, Shop, Culture, Community, Hospitality, Living, Public and Contemplation. ERCO understands digital light as the fourth dimension of architecture – providing highly precise and efficient lighting solutions to support creative designers in turning their visions into reality.

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