

Factsheet – Christ The Redeemer

Technology:

- On March 1st, 2011, the world saw the Christ the Redeemer Monument in a new light. Traxon Technologies lighting control, an OSRAM's company, fulfilled lighting designer Peter Gasper's vision to create wonder and inspiration in Monument visitors, by illuminating the statue with bright LED light.
- One of the seven wonders of the world, Christ the Redeemer Monument has overlooked the city of Rio de Janeiro for more than 80 years. The largest Art Deco statue in the world, the 130-foot statue sits atop a 2,300-foot peak, and has been an historical icon of both Rio and Brazil since its completion in 1931.
- A partnership between OSRAM, the Archdiocese of Rio de Janeiro and the Rio de Janeiro City Hall resulted in new lighting to the postcard of Rio, with the installation of 300 LED projectors.
- The modernization of the lighting system brought more shine to Christ and reduced considerably the energy consumption. Before the energy equivalent to 40 residential electric showers was necessary to turn on the lights. With the new system, only the equivalent to 2 electric showers is needed.
- The lights that were placed around it consumed 74 kilowatts (kW). The 300 new projectors now consume a maximum of 17.2 kW.
- An intelligent lighting system consisting of 64 Traxon Shield AC Extend, and 30 Limer Shield AC XB-27 RGB and Cold White fixtures with specially-focused optics were installed around the base of the statue at various distances.
- The powerful yet extremely energy-efficient, cost-effective fixtures are paired with a signature control system comprised of a Lighting Control Engine (LCE) and two Butler XTs, which allow each Shield AC Extend fixture to be individually aimed for precise, even illumination on all of the monuments unique details.
- In addition, the installation can be programmed, activated or deactivated via the Internet, mobile phones or portable tablets.
- This technology not only saves energy but also generates less heat than conventional light bulbs — a feature that benefits plants and animals. A further advantage is the fact that the projectors focus their light even more precisely, with the help of special lenses.

- Thanks to the use of different colored LEDs, it is now also possible to change colors faster to create different moods; this was previously done by placing different colored foils in front of the lights by hand.
- This opens up new possibilities for light shows, according to light designer Peter Gasper, who is the artistic director of the new system. “It used to be a laborious task, and sometimes entirely impossible, to change the mood lighting of the monument”, he says. “But with the new projectors we can adjust the lighting quickly and easily.”

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