

Thorn brings Elite Level A lighting to Dortmund's SIGNAL IDUNA PARK

Powerful LED installation prepares Germany's largest football stadium for international play

- Advanced LED floodlight system for a large-scale football venue
- Integrated control system offers tremendous lighting flexibility
- Fulfils both national and international lighting requirements

Dornbirn, Austria / Dortmund, Germany – “Going big” has a long tradition at the German football club Borussia Dortmund (BVB). Its home, the iconic SIGNAL IDUNA PARK, is the largest football stadium in the country with a capacity of more than 81,000. In 2019, the venue's floodlight system needed to be upgraded to comply with latest media lighting requirements of the DFL for the German Bundesliga and the UEFA for the EURO 2024, which will also be played in Dortmund. Once again, the club chose to invest in a future-oriented LED floodlight system from the Zumtobel Group brand Thorn. According to Dr. Christian Hockenjos, Borussia Dortmund's Director of Organisation:

“Our previous floodlights would not have complied with the new regulations. So we said to ourselves, we may as well do the right thing and switch to LED technology.”

Delivered as part of a turnkey service package from the Zumtobel Group, the new LED floodlight installation from Thorn more than fulfils the lighting standards for Bundesliga competition as well as those for the upcoming 2024 UEFA European Football Championship in Germany.

Powerful, flicker-free illuminance

To accommodate the new media lighting guidelines of the DFL, which stipulate average high camera-oriented illuminance levels of at least 1600 lux, Thorn installed 252 of its high-performance Altis floodlights. Collectively, the LED luminaires provide up to 2100 lux of high-quality light in all relevant camera directions – far exceeding the required illuminance levels. With a flicker factor of <1% and a >80 rating on the television lighting consistency index (TLCI), Altis is well-suited for HDTV events, as Stefan Thiel, Business Development Manager at Zumtobel Group, explains:

“The new LED floodlights with modern lighting technology offer the best lighting quality. Their brilliant colour reproduction as well as their flicker-free operation are especially needed for super-slow-motion HDTV broadcasts.”

Convenient, flexible control

All of the 252 Altis floodlights are linked to an IP-based control system through the DMX interface of their gearboxes to enable flexible lighting control. In addition to convenient on/off switching and dimming adjustments, the system lays the groundwork for real-time dynamic lighting effects which may be added in future.

Great lighting for a great stadium

Filled to capacity, as it regularly is, Borussia Dortmund's SIGNAL IDUNA PARK is a big stadium with a great atmosphere. With the new Altis floodlight system, it now also has a great lighting solution. The powerful,

forward-looking LED installation prominently displays the full grandeur of one of the most impressive football venues. Most importantly, it more than satisfies the broadcast quality lighting standards of the German Bundesliga and international competition, as Dr. Christian Hockenjos underscores:

"With the new highly modern floodlight, we have sustainably invested in the basic technical equipment of the stadium. With 2100 lux in the direction of the cameras, we now clearly exceed the DFL minimum requirements and already meet the UEFA requirements for the EURO 2024.

Moreover, the entire project – from the planning to the installation and commissioning – was managed by the Zumtobel Group's turnkey service. This meant that the club had the peace of mind of knowing that all project deliverables would be conducted efficiently, cost-effectively and on time.

Sports savvy

With decades of experience and expertise under its belt, Thorn knows sports lighting inside and out. The company has designed and developed innovative illumination solutions for all types of professional and recreational indoor and outdoor facilities. It specialises in tailoring lighting installations to precisely fit individual requirements and specifications – as it has at other well-known football venues such as the Opel Arena of FSV Mainz 05, in Germany.

Project highlights at a glance

- 252 high-powered Altis floodlights
- IP66 Altis LED gearboxes with native DMX control interface
- Future-oriented, energy-efficient lighting solution

Images
(Photo credits Thorn)







Video

<https://www.youtube.com/watch?v=omL5zyV1CGw&t=1s>

Information

This press release and high-resolution images can be downloaded from:

www.thornlighting.com/en/about-us/press

About Thorn

Thorn designs and develops innovative, performance-driven and dependable indoor and outdoor lighting and control solutions. Our comprehensive portfolio addresses the daily requirements of municipalities, contractors, consultants, architects, installers, wholesalers and end users. It covers a broad spectrum of applications, including office, education, industry, urban life, transportation, sports, road, parking and also emergency and control solutions. Around the world, the Thorn name is synonymous with proven quality, reliability and efficiency. With over 90 years of lighting experience, we have established ourselves as a trusted partner committed to providing customers with support that goes far beyond the product. We help to improve public and traffic safety in communities with intelligent solutions and better connectivity. Thorn is a proud member of the Zumtobel Group and fully dedicated to providing the right light for people, places and the environment. In all of our efforts: We make light work for you. Learn more at www.thornlighting.com

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