

The Philips logo is displayed in a white rounded rectangle on the left side of the image. The background of the entire image is a large, circular arena with a complex, dark metal truss ceiling structure. The arena floor is visible at the bottom, showing a blue and yellow court. The seating area is filled with blue and yellow seats. A circular opening is visible in the center of the ceiling.

PHILIPS

Arena & Sports

Public lighting



Case study

The first
ArenaVision LED
lighting system
installed in Africa



Watch the video

Photography Tribute

Revival Pictures

Business Partner

Hi-Tech

Cairo Stadium has chosen Philips Lighting to install its ArenaVision LED pitch lighting system. The Cairo Stadium is the first venue in Africa to use Philips ArenaVision LED lighting, which equips it with the flexibility needed as a multipurpose venue. This innovative LED lighting enables Cairo Stadium to create light shows and highlight certain parts of the stadium for different events, as well as meet stringent lighting standards for broadcasting. Apart from the pitch lighting, also new LED lighting was installed in other areas; GreenPerform LED highbay luminaires and CoreLine Surface-mounted luminaires.

Background

Cairo Stadium is an indoor sports complex comprising four Olympic-standard, multi-use sporting arenas with a capacity of 120,000 spectators. It is used for several events, like handball, volleyball, international conferences, concerts and fairs. It was one of the arenas used during the last African Games with over 43 countries participating in 18 different sports.

The Project

Philips Lighting and the Cairo Stadium have a long-term partnership that dates back to 1991 when Philips Lighting installed the first ArenaVision conventional floodlights in Africa. For the refurbishment of the existing lighting installation the Philips Egypt team was approached to deliver and install a complete new LED pitch lighting system in less than 4 months, to be ready for hosting the African Men's Handball Championship 2016. The project created an iconic example for sports lighting in Egypt. Achieving extreme energy savings as well as



“

Our challenge was to replace the existing ArenaVision conventional installation with **the ArenaVision LED system** in less than 4 months.

Juan Pablo Pasture

Systems Engineering Manager, Dubai Systems Center
Philips Lighting, Africa, MET and RCA



Sports



increasing the possibility of participating in International sports tournaments by achieving the international required levels of lighting. The 2016 African Men's Handball Championship was the first event to benefit from the Philips ArenaVision LED pitch lighting. This will increase the Cairo stadium's potential to participate in international sports tournaments by meeting required lighting standards for broadcasting. Philips ArenaVision LED lighting supports high definition super slow-motion replays, avoiding the flicker synonymous with conventional lamps. Also, unlike the previous metal halide system, the new LED system can be instantly switched on and off without the need for a warm-up period.

Services

Project scope included wiring, steel construction and commissioning,

luminaires aiming and programming. One of the biggest challenges in the project was also to construct a new construction catwalk to mount the floodlights in order to be able to install the new ArenaVision LED system on time.

Benefits

With 160 ArenaVision LED floodlights, the new system will save up to 50% more energy than the previous system. The unique design of the new Philips ArenaVision pitch lighting system offers a wide range of advantages including: low maintenance costs due to the longer life of the LED lighting system; better lighting conditions for players; and an instant on/off switch that allows seamless switching between different types of events and themes during games and other entertainment shows.



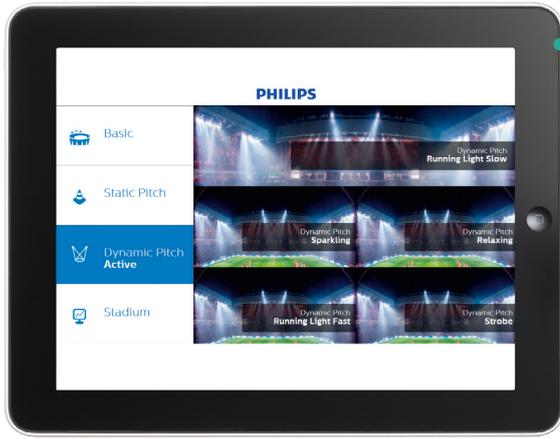
The new LED lighting system can be used for entertainment shows, exhibitions, as well as opening ceremonies of international sporting events. Also, the lighting enables high definition, flicker-free TV broadcasting. This opens up commercial opportunities to relay events at the stadium to new audiences via multiple channels from TV to the Internet.”

“

The new lighting system output is much stronger than the old one, it also enables high definition, **flicker-free TV broadcasting, with almost 50% energy savings** in the power consumption. Now we can use the stadium for entertainment shows, exhibitions and sports opening ceremonies.”

Yasser Abdolmoneim Aly

Cairo Stadium Covered Halls Complex Manager



ArenaVision system



Coreline Surface-mounted



Green-Perform LED Highbay

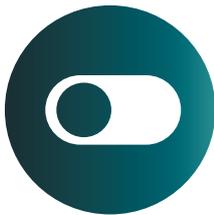




Energy savings
50%



Installation and
maintenance
cost reduction



Instant
on/off switch



Flicker-free
super slow motion
broadcasting
quality



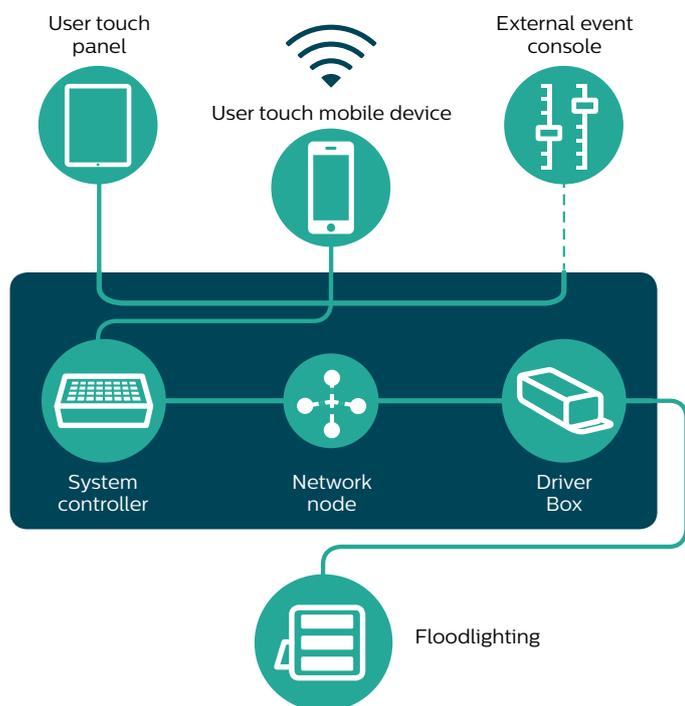
Enabling light
shows



Additional
revenue
generation

System control network

The ArenaVision system is enabled by a fully scalable system architecture which incorporates a dedicated controls network and software applications. An intuitive user interface, such as a tablet, can be used to manage full system functionality in a simple and convenient way.







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May 2016

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