



PHILIPS

ArenaVision system

Arena & Sports

System brochure

Create
excitement in
your venue

Empowering venues to offer a truly winning experience

Professional sports, entertainment, and multipurpose venues are unique environments. When the lights turn on everyone wants to win—players, performers, visitors, and commercial partners. The name of the game is success, today and into the future.

As a venue manager, you want to create top-level conditions for all stakeholders. Players, performers, fans, sponsors, media, broadcasters, and everyone else involved in an event want to enjoy their experience to the fullest.

At Philips Lighting, we know that excellent lighting is a powerful factor for making venues comfortable and exciting, so that everyone wins and wants to come back for more. Because sports and entertainment events are highly visual and diversified, getting the lighting right is crucial.

But creating the right lighting conditions isn't always straightforward. Different stakeholders have different needs and requirements, and striking the right balance is key. Also, you need to know which lighting systems are available today and what is possible for your venue. That way, when you're ready to take the next step, you can be sure it will pay off!

Together we bring light beyond illumination, making your venue's day-to-day operations less complex and improve your business performances.

Elknox Arena, Bourg-en-Bresse, France



4

Introduction

Full and easy control of all LED sports field lighting features

6

Applications



Features

All ArenaVision highlights

8



10

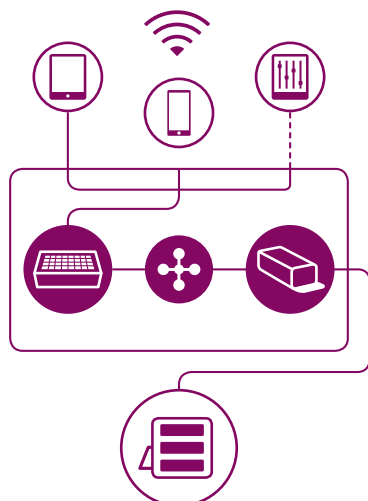
Solution bundles

Select your ArenaVision system package to best meet your venue's purpose



System control network

12



14

Main specifications



Flexible and easy to operate

Operators of today's sport and entertainment venues want to create visually stunning experiences for their fans and partners. They want to ensure that their venues are flexible and multi-use while reducing their operational costs. These are all needs that LED can satisfy. Venues can potentially cut their electricity bills in half, maximize revenue potentials, and also realize significant savings on maintenance costs.



Sponsors
optimize their investments

Broadcasters
comply with HD and super slow motion standards

Audiences
love the emotion

Philips possesses many decades of expertise in sports and entertainment lighting, and has contributed to industry standards for premier events and sports federations worldwide. We partner with our customers to offer the right technology at the right time, so that you can always depend on top performance and top quality. LED lighting has transformed venue performance over the past years, boosting comfort, flexibility, and excitement to new levels.

Philips ArenaVision is a feature-rich system and can be designed to meet your specific needs. ArenaVision system features include instant on/off, dimming, full controllability, high-quality flicker-free pitch lighting that meets the latest broadcasting and sports federation standards, and high-end entertainment event capabilities. With the ArenaVision system, you can create stunning static or dynamic lighting effects for unforgettable experiences. Illuminating your venue with ArenaVision system will excite players and fans and make every match or show a success.

Before, during, and after a match, the future-proof ArenaVision system switches easily among lighting settings to create the right atmosphere, improve safety, or support crowd flow management. As a venue operator you only have to select pre-programmed scenes via the system's user touch panel. You can even connect the system to an external event console, and fully integrate the floodlights into a spectacular lighting show.

Turn your arena into an outstanding, attractive, and welcoming venue that provides unforgettable experiences for fans, players, sponsors, media and broadcasters.

“

Would you not like to have the latest lighting technology to give you full control of your venue's illumination:

easy to oversee, always at your fingertips and 100% reliable, giving you peace of mind?”

Applications



ACC Liverpool, UK

Multipurpose venues

Whether it's a rock concert or a stand-up comedy night, the light will perfectly match the mood and heighten everyone's spirits.

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The lights really become
part of the show.”



Ekinox Arena, Bourg-en-Bresse, France

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ArenaVision
system
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Applications
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Indoor arenas and outdoor stadiums

Perfect lighting keeps everyone on the edges of their seats when a sports match reaches its stunning conclusion or it can transform your arena or stadium into a giant stage for special entertainment events.



Philips Stadium, Eindhoven, The Netherlands

ArenaVision system

features

From sports matches to live concerts, ArenaVision has everything it takes to make each event a spectacular success.





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ArenaVision
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Features

Philips Stadium, Eindhoven, The Netherlands



Hull Stadium, Hull, United Kingdom

System solution bundles

You can choose between dedicated ArenaVision system packages to maximize value at a reasonable cost. With the solution bundles you can adjust the system's functionality to suit your venue's commercial purpose. Besides it is an excellent investment for the short and longer term. The complementary bundles are offered separately and support on-site feature upgrades.



Eco

Get flicker-free LED sports field lighting with functionality similar to state-of-the-art HID floodlights. Features include instant on/off switching, flicker-free performance, and a range of dimming levels.

Effects

Enjoy pre-programmed personalized scenes, dynamic lighting effects, tablet support, synchronized light and sound effects, support for multiple floodlight types, and targeted remote diagnostics.

Experience

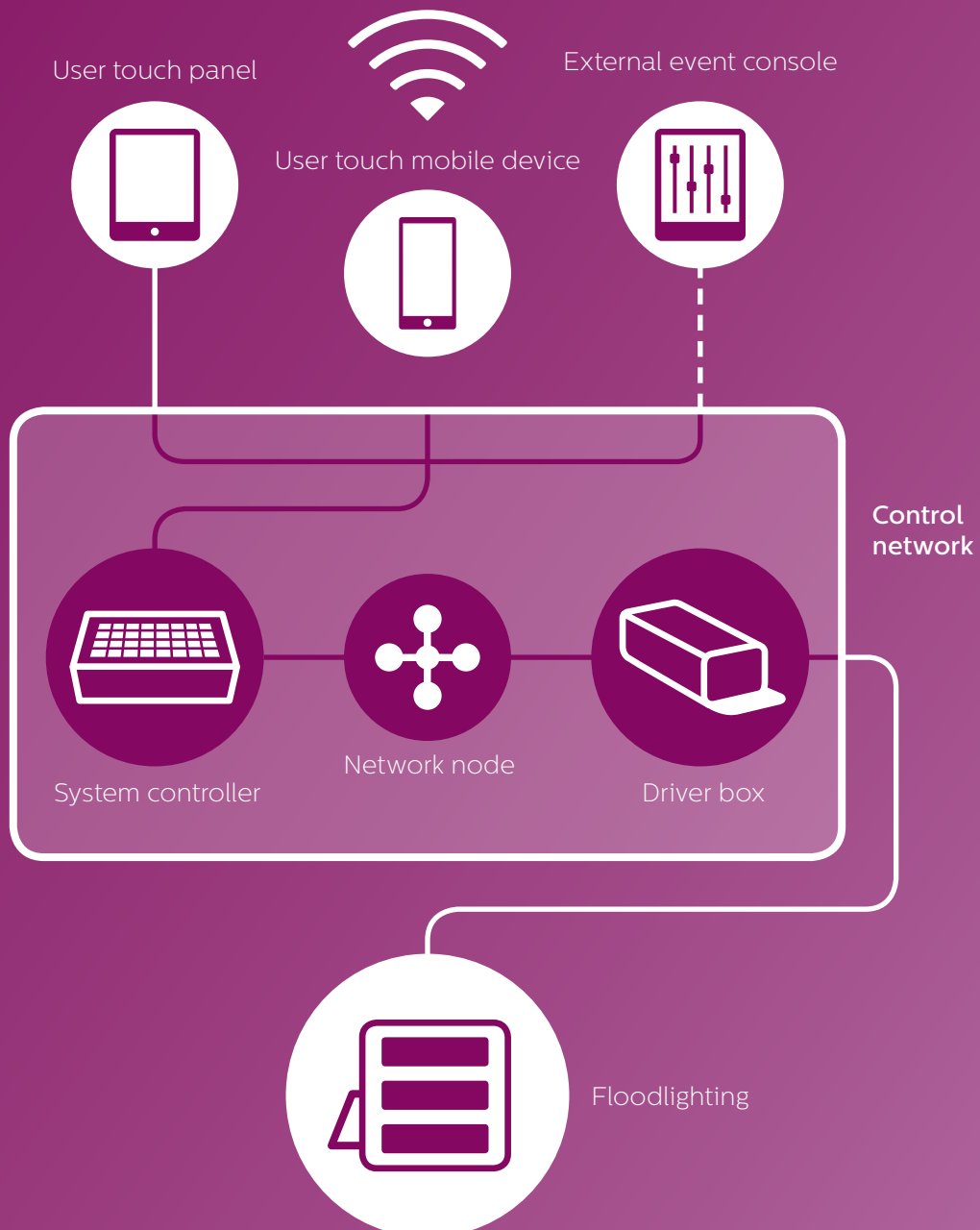
Tailor your venue's lighting for multiple purposes. Get all the benefits of a DMX-controlled LED floodlighting system, but with the added ability to access every single floodlight, when these are used in light shows by entertainment production companies and lighting designers. This package is compatible with all major entertainment consoles to enable full-featured entertainment shows.

	Eco	Effects	Experience
LED floodlights Top light quality External driver box	+	+	+
Control network Ethernet, Art-Net, Simple User Interface	+	+	+
Switch modes Static & Dynamic Tablet User Interface	—	+	+
Effects features Light & Sound Multiple fixture types	—	+	+
Remote access Diagnostics Quick resolution	—	+	+
Connectivity External light console Entertainment fixtures	—	—	+



System control network

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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Floodlighting

ArenaVision LED floodlights illuminate the selected pitch area and/or first rows of the stands. The floodlight is available in 8 different optics to meet a wide range of lighting installation need. Floodlights will be aimed to ensure absolutely perfect horizontal and vertical light uniformity.



Driver box

The driver box houses the advanced connected electronics that supply power to and control each ArenaVision LED floodlight. This connection is used for on/off switching, dimming the lights, thermal management, and so on.



Control network

Dedicated scalable Ethernet with Art-Net protocol. All system components are connected and can be controlled via this network.



Network node

The network node is a DMX interface that converts Art-Net protocol into DMX-RDM commands. Each node can drive up to 128 drivers.



System controller

This is the central lighting settings controller, where all static and dynamic light scenes are stored. Scenes are triggered via commands over Art-Net.



External event console

For special events, an additional external event control device can be connected. Simply press a virtual button on the user touch panel to grant the device access to the external event console. Philips can supply external event controllers if needed. The ArenaVision system facilitates toggling control to an external event controller and back.

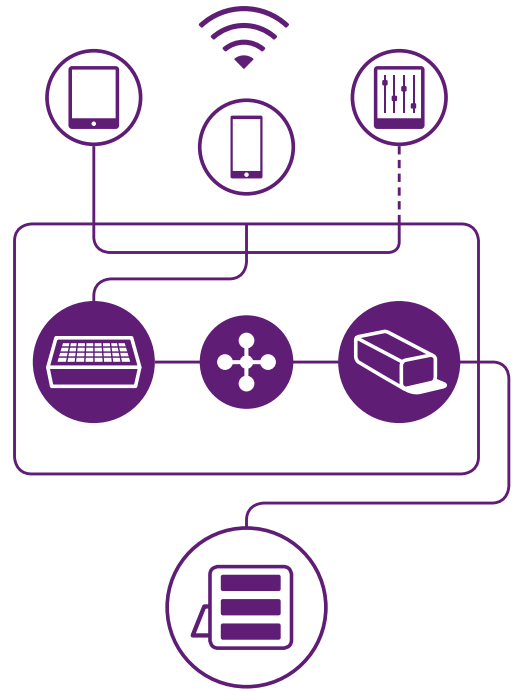


User touch panel / mobile device



For easy lighting control, use a network-connected touchscreen or mobile device. An intuitive design offers an easy way to activate pre-defined scenes to users, while the buttons' designation can be perfectly tailored to the venue type and usage profile. A selected button is always highlighted, so you are always aware of which scene is active.

Main specifications



ArenaVision system specifications

System features	Specifications
Touchscreen	Programmable UI layout
Tablet, smartphone	Android, iOS
System controller	Programmable, DIN-rail mounted
Control network	
- Ethernet	(IP layer 1 and 2)
- Art-Net / UDP	(IP layer 3 and 4)
- Refresh rate	40 per sec
- Network cabling	Fiber Optic or CAT5/6
- Cable length	Within venue
Floodlight control	DMX-RDM, multiple universes
Scalability	Up to 2,000 floodlights
Support floodlight types	DMX, DALI, KiNet
Synchronization accuracy between floodlights	< 0.02 s
Mains grid control support	Relays via Ethernet
Floodlight full diagnostics possibility	On-site and remote
Secured remote access for diagnostics	Customer override
Audio and light effects	Synchronous
External event console support	Art-Net
Software upgrades	On-site and remote

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Main specifications
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ArenaVision LED floodlight main specifications

Floodlight features	Specifications
Type	BVP420
Luminous flux	Up to 112 klm (at CRI 80), up to 99 klm (at CRI 90)
Correlated Color Temperature	5700 K (+/- 400 K)
Color Rendering Index	90 / 80
Flicker percentage	< 2%
Lifetime	Up to 50,000 hours at L80B10
Optics	From 2 x 6° to 2 x 19° (7 optics)
Mains input voltage	110-277 V / 50-60 Hz or 347-480 V / 50-60 Hz
Material	Housing: Aluminum Optic cover: UV protected PC
Operating temperature range	-30 °C to +45 °C depends on type
IP-rating	IP66
Accessories	External spill-light control louvre Precision aiming device
Driver type	External
Inrush current	30 A/kW at 200 µs
System surge protection	10 kV standard
Control interface	DMX-RDM
Certification	CE, ENEC, RoHS, UL, cUL

