



**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.



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## Introduction

Full and easy control of all LED sports field lighting features

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## Applications



## Features

All ArenaVision highlights

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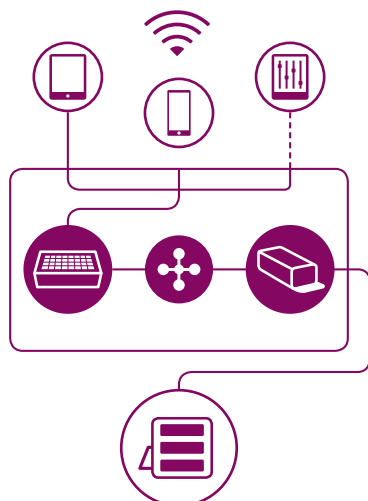
## Solution bundles

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



## System control network

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## 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, maximise revenue potentials, and also realise significant savings on maintenance costs.



**Sponsors**  
optimise 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.

“

The lights really become  
**part of the show.”**



Ekinox Arena, Bourg-en-Bresse, France

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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.







Philips Stadium, Eindhoven, The Netherlands



Hull Stadium, Hull, United Kingdom

# System solution bundles

You can choose between dedicated ArenaVision system packages to maximise 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 personalised scenes, dynamic lighting effects, tablet support, synchronised 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.

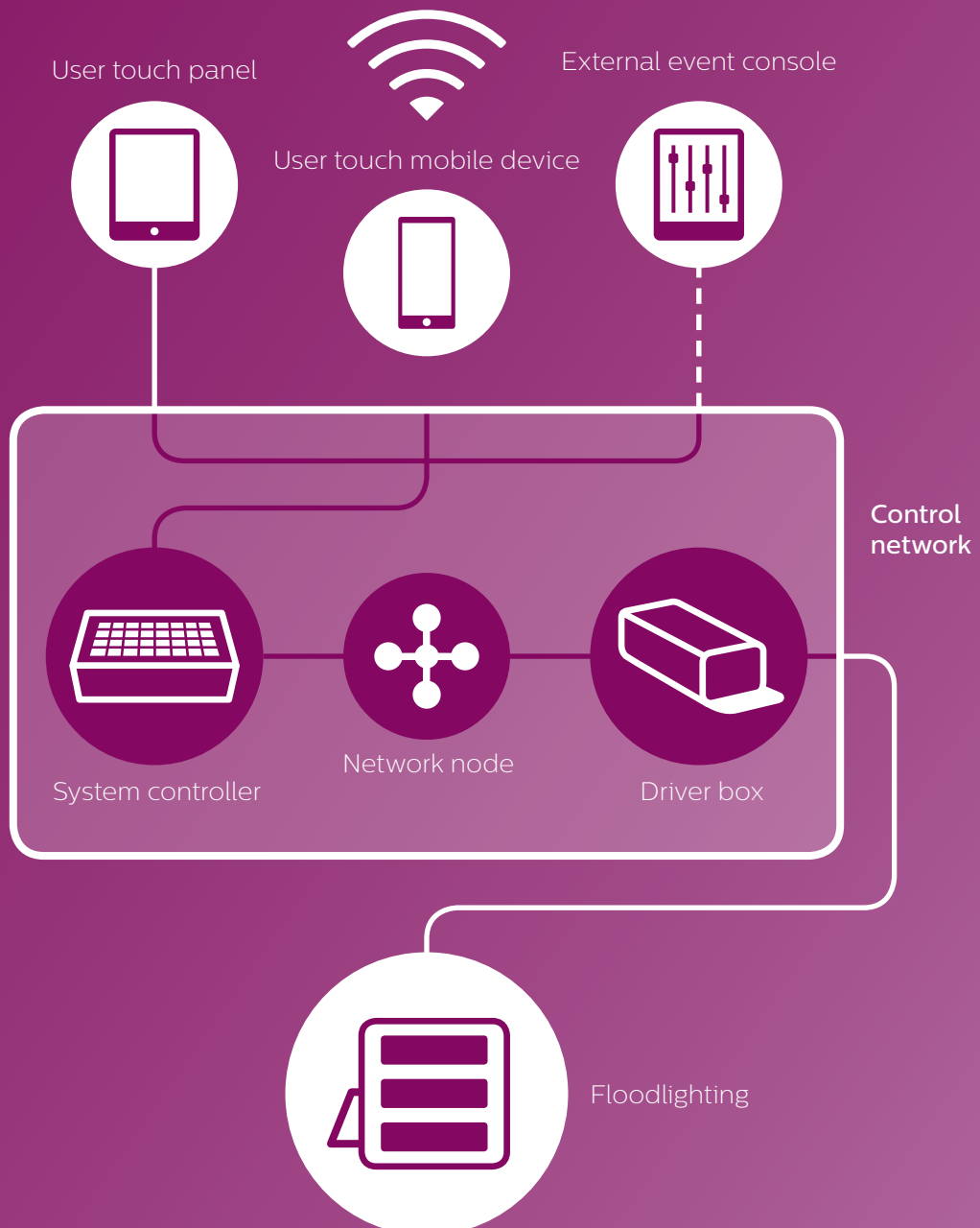
	Eco	Effects	Experience
<b>LED floodlights</b> Top light quality External driver box	+	+	+
<b>Control network</b> Ethernet, Art-Net, Simple User Interface	+	+	+
<b>Switch modes</b> Static & Dynamic Tablet User Interface	—	+	+
<b>Effects features</b> Light & Sound Multiple fixture types	—	+	+
<b>Remote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

Note: Bundle functionality depending on system, software and component compatibility.



# 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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System control  
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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.

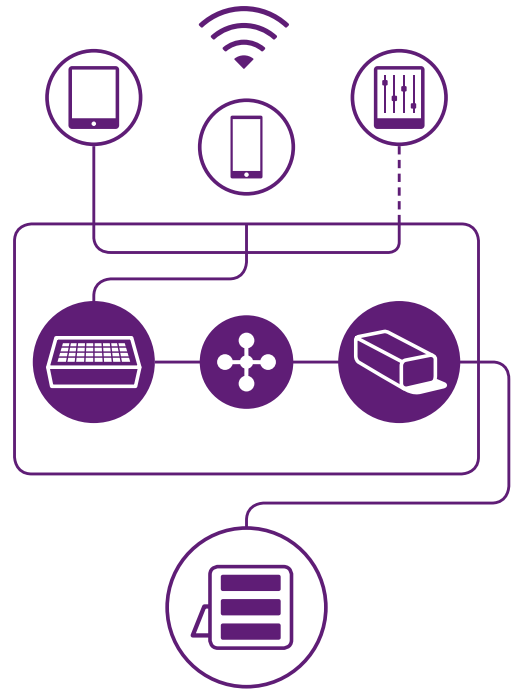


## User touch panel / mobile device



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
<b>Touchscreen</b>	Programmable UI layout
<b>Tablet, smartphone</b>	Android, iOS
<b>System controller</b>	Programmable, DIN-rail mounted
<b>Control network</b>	
- 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
<b>Floodlight control</b>	DMX-RDM, multiple universes
<b>Scalability</b>	Up to 2,000 floodlights
<b>Support floodlight types</b>	DMX, DALI, KiNet
<b>Synchronisation accuracy between floodlights</b>	< 0.02 s
<b>Mains grid control support</b>	Relays via Ethernet
<b>Floodlight full diagnostics possibility</b>	On-site and remote
<b>Secured remote access for diagnostics</b>	Customer override
<b>Audio and light effects</b>	Synchronous
<b>External event console support</b>	Art-Net
<b>Software upgrades</b>	On-site and remote

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## ArenaVision LED floodlight main specifications

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



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