ArcSystem

Auditorium, Retail, Commercial LED lighting
for new and retrofit installation

GDS®

Straight forward thinking

ArcSystem | 2 Ranges 1 innovative solution

ArcSystem | Pro

Manufactured from high grade steel and powder coated to offer a flawless finish, this is a range of LED auditorium lighting fixtures that are built to last. A range of beam angles are available including 19, 24, 37 and 80 degree options incorporating high efficiency optics and LED's. Producing an incredibly rich, warm light with a CRI in excess of 90, ArcSystem is a truly viable replacement for traditional incandescent sources. A range of colour temperatures including 2700, 3000, 4000 and 5600 Kelvin are available to suit any environment.

Exhibition/Convention Centres
ICC - Birmingham - UK

ArcSystem | Decor

Incorporating the same high grade optics, smooth dimming, wireless control and light output as the Pro range, ArcSystem Decor is a range of fittings manufactured using the latest thermoplastic technology to produce a quality LED fixture suitable for almost any budget. Fittings in the Decor range include the single cell unit which is available complete with a range of optional accessories to tailor the final look of the unit to your requirements. Also available is an MR16 fitting available in a black or white finish and as either a recessed or trunion arm hanging version. Because the Decor range utilises the same drivers as the Pro series, you can be assured of a 100% smooth dimming curve whilst taking full advantage of the flexible wireless connectivity of ArcMesh.

Professional Theatres | Olavshallen - Trondheim - Norway

School Theatre | Bacon Theatre - Cheltenham - UK

ArcMesh | Control

ArcMesh is a brand new wireless data protocol that has been developed in house at GDS to provide a reliable control mechanism that minimizes installation time and cost. Ideally suited for retrofit installation, this rock solid wireless solution allows ArcSystem to be retrofitted into an existing building without the need for costly re-wiring. In addition, PC software allows individual wireless configuration of each ArcSystem fitting to provide features such as zoning, addressing and fail safe levels. For new build projects, wired versions of all ArcSystem fixtures are available allowing direct connection of DMX to each fitting.

Houses of Worship | Redland Park Church
Bristol · UK

ArcSystem | Decor

1 cell Fixed / Adjustable

A compact single cell enclosure ideally suited for recessed installation in areas that require short/medium throw illumination. The 1 cell Decor Range provides the same quality performance as the Pro Range of single cell fittings but offering further enhancements with accessories such as aesthetic rings and bezel options etc. The Decor range is generally smaller and more lightweight, making it perfect for most recessed false ceiling applications.

Key Features:

· 20, 27 & 52° beam angle options
· High output 1300Lm at 3000 cct LED with low glare reflector 20W circuit load
· Controlled by ArcMesh or wired DMX technology using a D1 driver unit
· Excellent quality of light (CRI in excess of 90)
· Stepless smooth dimming to absolute zero
· Convection cooled, silent operationn

The 1 cell decor unit is available with a range of optional accessories to create the perfect finish for your project. There are many variants and colour options, the full range can be found on our specification sheets or by visiting our website at www.gds.uk.com/arcsystem

Tracklight

A compact single cell enclosure complete with track adaptor and integral driver unit ideally suited for installation in areas that require short/medium throw illumination. The 1 cell Tracklight connects directly to a compatible mains powered track and allows wireless control using the ARCMTX1 ArcMesh Transmitter (supplied separately). Optional Barn Doors are also available for the Tracklight to assist with beam shaping. N.B. Wired DMX control is unavailable for this product.

Key Features:

· Fits directly to existing compatible 3 circuit track
· 17, 40 & 60° beam angle options
· Integral power supply and ArcMesh control
· Optional barn door accessory

MR16 Unit

A compact MR16 LED unit comparable to a 50W halogen but only consumes 10 watts. This product is ideally suited for recessed or hanging installation in areas that require short/medium throw illumination. 2 x MR16 fittings connect directly to one ARC-D1 (driver unit) ensuring the price per point is keep to a minimum, whilst achieving full control.

· 24, 33 and 50° beam angle options
· High output 628Lm at 3000 cct LED with low glare reflector 10W circuit load
· Controlled by ArcMesh or wired DMX technology via a D1 driver unit
· 2 x MR16 units can be connected to one D1 driver
· Excellent quality of light (CRI in excess of 90)
· Stepless smooth dimming to absolute zero
· Convection cooled, silent operation

ArcSystem | Pro

1 Cell Fixed / Adjustable / Trunion Arm

A compact and robust single cell enclosure ideally suited for recessed installation in areas that require subtle, short / medium throw illumination. Manufactured from high grade steel, the 1 cell ArcSystem product provides the same stunning quality performance as the larger versions but in a much smaller form factor.

· Fixed version available in 19, 24 and 37° beam angle options
· Adjustable version available in 80 degree providing 2 axis positioning
· Trunion arm version available 80 degree
· High output 1300Lm at 3000 cct LED with low glare reflector 20W circuit load
· Controlled by ArcMesh or wired DMX technology using a D1 driver unit
· Excellent quality of light (CRI in excess of 90)
· Stepless smooth dimming to absolute zero
· Convection cooled, silent operation

2 & 4 Cell

A high output 2 or 4 cell fixture manufactured from high grade steel, with a choice of either square or round form factors (4 cell only) according to requirements. With high power LED's and on board drivers, either the 2 or 4 cell unit can simply be connected to an existing mains supply and controlled via the separate ArcMesh transmitter to offer a complete auditorium lighting solution.

· Available in 19, 24 and 37° beam angle options
· 2 Cell High output 2600Lm at 3000 cct LED with low glare reflector
· 4 Cell High output 5200Lm at 3000 cct LED with low glare reflector
· Controlled by ArcMesh or wired DMX technology built in
· Excellent quality of light (CRI in excess of 90)
· Stepless smooth dimming to absolute zero
· Convection cooled, silent operation
· 90-240VAC mains input

8 Cell

A high output 8 cell enclosure suited for wide area and high bay installations. Manufactured from high grade steel, the 8 cell ArcSystem produces an extremely high quality of light. With 8 high power LED's and on board drivers, the 8 cell unit can simply be connected to an existing mains supply and controlled via the separate ArcMesh transmitter to offer a complete auditorium lighting solution.

· Available in 19, 24 and 37° beam angle options
· High output 10400Lm at 3000 cct LED with low glare reflector
· Controlled by ArcMesh or wired DMX technology built in
· Excellent quality of light (CRI in excess of 90)
· Stepless smooth dimming to absolute zero
· Convection cooled, silent operation
· 90-240VAC mains input

ArcMesh | Control

D1 Driver Unit

A compact driver unit providing control for any ArcSystem Pro or Decor 1 cell fitting, the D1 driver measures 140mm x 95mm and requires only a mains supply to operate. An on board antenna and RJ45 in and through sockets allow the unit to be operated either wirelessly or wired using DMX.

Key Features:

· Compact and lightweight
· High grade electronics
· Simple plug n play connectivity
· Can be used with any 1 cell or MR16 fitting from both the Decor and Pro range
  ArcMesh Transmitter
· Configurable using the ARC-CT commissioning tool software
· 90-240VAC mains input.

ArcMesh Transmitter

The brains of every ArcSystem installation, the ArcMesh transmitter takes a standard DMX signal and wirelessly transmits intensity data to each ArcSystem fitting. ArcMesh has been developed in house at GDS to provide a reliable control mechanism that minimizes installation time and cost. In addition, PC software allows individual wireless configuration of each ArcSystem driver to provide features such as zoning, addressing and fail safe levels.

Key Features:

· Setup using ARC-CT commissioning tool software
· Store and playback 24 onboard presets
· Special DBO and panic options
· 2 inputs for override operations such as fire alarm triggering etc
· DMX512 control input · Flexible DMX patching
· Based on IEEE802.15.4 protocol, allowing co-existence with Wi-Fi and Bluetooth
· Heavily site tested for stable operation
· Compact and robust powder coated enclosure
· 90-240VAC mains input.
· Dimensions: 343mm H x 141mm W x 41mm D

8 Button Panel

Providing direct recall for 8 of the 24 preset scenes stored in the Arc Mesh transmitter, the 8 button panel utilises the ArcMesh network to communicate with ArcSystem fixtures meaning only mains power is required for each button panel to operate

Key Features:

· Setup using ARC-CT commissioning tool software
· Seamlessly integrates with ArcMesh network meaning each panel only requires a mains supply to operate
· Backlit buttons with intensity control (via the ARC-CT)
· Multiple panels can be used on one network
· Button lockout feature to allow panels to be inhibited whilst in show mode
· Compact and robust powder coated enclosure supplied
· 90-240VAC mains input
· Dimensions: 88mm H x 148mm W x 47.5mm D

CommissioningTool

The ArcMesh Commissioning Tool (ARC-CT) is a simple to use, USB wireless interface tool that provides direct connection to a an ArcSystem installation via an easy to navigate graphical user interface.

With the software provided, ARC-CT enables the user to set and modify numerous options to suit the requirements of an installation including fixture identification, addressing, grouping and minimum/maximum light level settings. ARC-CT can handle up to 64 individually addressed groups of fixtures per network ID with more than 15 uniquely assignable network ID's allowing multiple installations of ArcSystem to co-exist within the same building.

ArcSystem | Key Features

Components:

Pro 1 Cell Fixed	1.1kg
Pro 1 Cell Focusable	1.4kg
Pro 2 Cell	3.5kg
Pro 4 Cell	4.0kg
Pro 8 Cell	10.2kg
Decor MR16	0.4kg
Decor 1 Cell Fixed	1.0kg
Decor 1 Cell Adjustable	2.2kg
Decor Tracklight	1.2kg
D1 Driver Unit	0.4kg
ArcMesh Transmitter	0.9kg
8 Button Panel	0.5kg

Specification:

- Low glare aluminium reflector system
- Various beam angle options
- Advanced high output LED arrays
- Over 90 CRI
- 628 to 10,400 lumen output range
- 2700/3000/4000/5600K Colour temperature options
- Convection cooled
- Wireless ArcMesh or wired DMX control options
- Stepless smooth dimming to absolute zero

Configurable options for:

- Dimming
- Patching
- Auto recovery
- Minimum light level set
- Group selection recall
- Wireless configuration via PC software
- Fault monitoring
- Power fail/recovery option set
- 24 preset recall

ArcSystem Emergency Lighting Option

All ArcSystem products can be provided as a single input standard version or a dual inpu emergency fixture to allow connection to a maintained emergency power supply.
Please contact us for further information.