Green Light

LED technology is changing the way we light the world. From cost savings to a reduced carbon footprint, to human health safety, Light Emitting Diodes have made measurable advancements of great proportion in recent years, to become a leading science in intelligent illumination worldwide. The robust technology of LED is at the core of every Traxon fixture. With less energy consumption than incandescent lamps, LEDs result in reduced carbon emissions making them environmentally friendly. Additionally, LEDs boast a longevity lasting nearly 30 times longer than incandescent bulbs, and therefore cost less to use for the duration of their lifetime. LEDs reduce pollution and cancer risks as they contain no Mercury or Lead, and they are safe for use near material goods as they emit no harmful Ultraviolet rays. Traxon & e:cue welcomes you to partner with us as industry leaders in the evolving world of solid state lighting.
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting Solutions</td>
<td>8</td>
</tr>
<tr>
<td>Illumination</td>
<td>16</td>
</tr>
<tr>
<td>Ambiance &amp; Accent</td>
<td>28</td>
</tr>
<tr>
<td>Media &amp; Façade Solutions</td>
<td>48</td>
</tr>
<tr>
<td>Control Software</td>
<td>66</td>
</tr>
<tr>
<td>Control Engines &amp; Interfaces</td>
<td>74</td>
</tr>
<tr>
<td>User Terminals</td>
<td>96</td>
</tr>
<tr>
<td>Product Summary</td>
<td>105</td>
</tr>
<tr>
<td>Appendix</td>
<td>106</td>
</tr>
</tbody>
</table>
FLEXIBILITY, SIMPLICITY & INNOVATION IN LIGHTING SOLUTIONS & SERVICES

about
About Traxon Technologies

Traxon Technologies, an OSRAM business, together with its control brand, e:cue, is a global leader in solid state lighting and control systems providing complete, sustainable and intelligent lighting solutions. Working with our extensive partner network, Traxon & e:cue transform creative visions into unforgettable lighting experiences, elevating architectural, entertainment, hospitality, and retail environments around the world.

Flexibility, simplicity, and innovation are our guiding principles. From software and product development, customization competence and cutting-edge integrated lighting and building material solutions, to worldwide project management, planning and support services, to our dynamic and global team of outstanding professionals, these values drive and shape us within our ever-evolving industry.

Our customers and partners are the leading international lighting design, architecture and engineering firms, as well as the world’s premier developers and brands. Together we have completed over 5,000 installations worldwide, including renowned architectural landmarks such as Hypercube Skolkovo, Moscow; Klodzko Fortress, Klodzko; Kiel Fjord, Kiel; Barry J Kaplan Bridge, Texas; Kempinski Ambience Hotel, Delhi; Henjie Wanda Plaza, Wuhan; Flame Towers, Baku; National Stadium, Warsaw; Christ the Redeemer Monument, Rio de Janeiro; Galeries Lafayette, Paris; JR Tokyo Station, Tokyo; Esplanade – Theatres on the Bay, Singapore; and many other prestigious entertainment, hospitality, and retail interiors and façades.

Traxon & e:cue’s innovative, integrated control, software, product and project portfolios have won many awards and accolades for their pioneering technologies and dynamic solutions, including LFI Innovation, IF Design, Red Dot Design, DDC, POPAI, MELDA and PLDR.

In 2009, Traxon Technologies entered into a joint venture with OSRAM, a partnership which ultimately led to OSRAM’s complete acquisition of Traxon in 2011, thus strengthening our position in the market by combining knowledge and experience in technology and marketing, and building on synergies with OSRAM’s global presence.

For more information visit: www.traxontechnologies.com
National Stadium, Warsaw, Poland
Developer: Narodowe Centrum Sportu Sp.z oo
Lighting Designer: Lichtvision

CEEQA
Hotel, Leisure & Residential Development of the Year
Building of the Year
2012

illumni Infinity Award
illumni Infinity Awards “Silver” for facade lighting 2013
2013

Lighting Design Awards 2013
Lighting Design Awards 2013 - International Project (Exteriors)
2013
Light & Architecture
Historic Buildings, Bridges, Stadiums, Landmarks...

Distinctive architectural elements deserve to be noticed. Provide a map of light that leads the eye to appreciate their splendor, with discrete illumination solutions that exude a concentrated radiance, elegantly distinguishing intricate façades, walls, and borders. Melding technology with simplicity, Traxon & e:cue’s flexible system solutions ensure bright, even output, and efficient operation and installation process. Customize an advanced lighting solution to bring your signature interior and exterior architectural features into focus.
Light & Retail
Facades, Ambient Interiors, Displays...

Light is among the most essential and effective sales tools in the Retail industry. Whether directing attention to a retail space, conveying the quality of merchandise, or strengthening branding and display themes, lighting has a dramatic – often subconscious, ability to charm consumers. Traxon & e:cue understand the positive potential of lighting in retail environments. Our full system solutions gracefully accentuate goods, effortlessly lead clientele through product displays, and ultimately inspire a decision to purchase. Traxon & e:cue solutions are as subtle or as bold as you wish them to be. Whether creating a subtle ambiance or a blatant, branded advertisement, let light in, to enhance your retail space and build your business.

1 Galeries Lafayette, “Chrysalide”, Paris, France
2 Chevy Chase Pavilion, Washington, D.C., USA
3 UNIQLO Myeongdong Central Flagship Store, Seoul, Korea
4 Stockmann Department Store, Helsinki, Finland
Light & Hospitaliry
Healthcare, Hotels, Bars & Restaurants, Commercial Spaces...

Instantly captivate the mind, reward the eye, and evoke emotion with customized illumination. Traxon & e:cue’s full system solutions leverage light to infuse atmospheres with serenity and intrigue; the mood enhancing possibilities are as endless as the imagination. Flexible fixtures and intelligent controls ensure flawless integration into any space, subtly putting guests at ease. From radiant balustrades and backlit coves to shimmering walls and ceilings, Traxon & e:cue’s offerings merge expression with light, creating distinctive and unforgettable environments.
Light & Entertainment
Casinos, Clubs, Festive Lighting...

Breathe excitement into audiences and create memorable experiences for guests through the influence of dynamic lighting. No other element can so dramatically and effortlessly transform an environment or inspire a memory or engage its guests, as a strategic lighting scenario can. Traxon & e:cue’s extensive portfolio features options for a wide range of entertainment applications, from ambiance and accent lighting for creating anticipation or setting the scene, to bold media and façade solutions, which enable scalable visual masterpieces of text, graphics, and video animations. Traxon & e:cue’s full system solutions take customization to a new level and make your innovative design visions a reality.

1 Heldendisplay Museum, Leipzig, Germany
2 Zacheta National Gallery of Art, Warsaw, Poland
3 Priscilla Queen of the Desert New York, USA
4 Lantern Wonderland 2012 “Golden Moon”, Hong Kong, China
Heating Power Plant in Linden, Hannover, Germany
The Illumination line takes power and flexibility to a bold new level. Combining high-intensity LEDs with multiple customization options, the luminaires are rugged and powerful, yet sophisticated enough to meet the detailed demands of projects of any scale. The Illumination line, designed to withstand weather-changing environments while maintaining consistent bright light output, is available for interior and exterior applications. A wide optic range enables precise placement of light and even saturation, producing superior wall washing and grazing effects.

<table>
<thead>
<tr>
<th>Washer Allegro AC XB</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nano Liner Allegro AC XB</td>
<td>20</td>
</tr>
<tr>
<td>Wall Washer Shield AC XB</td>
<td>22</td>
</tr>
<tr>
<td>Shield AC Extend</td>
<td>24</td>
</tr>
<tr>
<td>System Solution</td>
<td>26</td>
</tr>
</tbody>
</table>
Washer Allegro AC XB

Washer Allegro AC XB is a high output, energy efficient, compact lighting solution for outdoor environments. Powered directly with AC line voltage, the Washer Allegro AC XB is ideal for many types of exterior architectural, retail, and hospitality applications. Equipped with flicker-free phase cut dimming capabilities*, it offers a broad range of colors including RGB, two (white) CCT options, and Dynamic White, and various beam spreads, making it suitable for a wide range of flood, direct and indirect illumination where a cost-effective solution is required. Washer Allegro AC XB’s simple Plug’n’Play cabling and connection make installation quick and easy.

**Powered by AC line voltage**  AC line voltage (120V / 230V / 277V) eliminates the need for external power supplies and enables long chains.

**High output and efficacy**  26 lm/W (RGB); 67 lm/W (3000K); and 74 lm/W (4000K), 1340 lumens (RGB version) and 2631-2918 lumens (white versions).

**Multiple color options**  Controlled via DMX512, the extremely efficient RGB LEDs are capable of producing a dynamic range of 16.7 million colors to create nearly any imaginable illumination scenario. Dynamic White lends sophisticated ambiance to various outdoor environments by providing an even illumination.

**Phase cut dimming**  Washer Allegro AC XB’s 3000K and 4000K white product versions offer 5% - 100% dimming resolution without flickering.

**Flexible aiming**  The product is equipped with an adjustable bracket for flexible beam aiming.

**Various options**  7°, 20°, 30° and 40° spreads offer gentle illumination or more focused grazing.

**Simple cabling and connection**  Washer Allegro AC XB’s simple Plug’n’Play connection can be daisy-chained, enabling easy installation and lowering maintenance costs.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>7°</th>
<th>20°</th>
<th>30°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR</td>
<td><img src="image1" alt="RGB" /></td>
<td><img src="image2" alt="3000K" /></td>
<td><img src="image3" alt="4000K" /></td>
<td><img src="image4" alt="2700K-6500K" /></td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td><img src="image5" alt="Suitable for Coastal Environment" /></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUMINOUS FLUX</td>
<td><strong>White</strong>&lt;br&gt;Luminous Flux: 2631 - 2918 lm&lt;br&gt;Efficacy: 67 - 74 lm/W&lt;br&gt;Power Consumption: 44W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>RGB</strong>&lt;br&gt;Luminous Flux: 1340 lm&lt;br&gt;Efficacy: 26 lm/W&lt;br&gt;Power Consumption: 52W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Wall Mount Arm</td>
<td>Glare Shield</td>
<td>Angled Glare Shield</td>
<td>Ceiling Trim</td>
</tr>
</tbody>
</table>

* Phase cut dimming available in WHITE version only
Nano Liner Allegro AC XB
IES Progress Report
Accepted
2013
Nano Liner Allegro AC XB

Nano Liner Allegro AC XB is a high output, energy efficient, ultra slim linear lighting solution for outdoor environments. Powered directly with AC line voltage, the slender Nano Liner Allegro AC XB is ideal for many types of exterior architectural, retail, and hospitality applications. Equipped with flicker-free phase cut dimming capabilities, it offers a broad range of colors including RGB, two (white) CCT options, and Dynamic White, two fixture lengths, and two beam spreads, making it suitable for a wide range of wall grazing, linear, and indirect illumination where a cost-effective, low-profile solution is required. Nano Liner Allegro AC XB’s simple Plug’n’Play cabling and connection make installation quick and easy, even in small spaces.

**Powered by AC line voltage**  AC line voltage (120V/240V/277V) eliminates the need for external power supplies and enables extended run lengths up to 50 feet (120V) or up to 80 feet (240V/277V).

**High output and efficacy**  25 lm/W (RGB); 60 lm/W (3000K); 65 lm/W (4000K); 309 lumens per foot (RGB version) and 635-865 lumens per foot at 11 watts per foot (white versions).

**Multiple color options**  Controlled via DMX512, per foot/fixture, the extremely efficient RGB LEDs are capable of producing a dynamic range of 16.7 million colors to create nearly any imaginable illumination scenario. Dynamic White lends sophisticated ambiance to various outdoor environments by providing an even illumination.

**Multiple fixture lengths** Available in 1ft and 4ft lengths, Nano Liner Allegro AC XB easily accommodates varying installation space requirements.

**Phase cut dimming**  Nano Liner Allegro AC XB’s 3000K & 4000K white product versions offer 5% - 100% dimming resolution without flickering.

**Flexible aiming**  The product is equipped with a 180° rotation axis for flexible beam aiming.

**Two beam options**  40° and 50° x 10° spreads offer gentle illumination or more focused grazing.

**Simple cabling and connection**  Nano Liner Allegro AC XB’s simple Plug’n’Play connection can be daisy-chained, enabling easy installation and lowering maintenance costs.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°</td>
</tr>
<tr>
<td>50° x 10°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB</td>
</tr>
<tr>
<td>3000K</td>
</tr>
<tr>
<td>4000K</td>
</tr>
<tr>
<td>2700K-6500K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP55</td>
</tr>
<tr>
<td>Suitable for coastal environments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LUMINOUS FLUX</th>
<th>EFFICACY</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Efficacy: 60 - 65 lm/W</td>
</tr>
<tr>
<td>Luminous Flux: 635 - 865 lm/ft</td>
<td></td>
</tr>
<tr>
<td>Power Consumption: 11W/ft</td>
<td></td>
</tr>
</tbody>
</table>

| Luminous Flux: 309 lm/ft |
| Efficacy: 25 lm/W |
| Power Consumption: 12.4W/ft |

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mount Arm</td>
</tr>
<tr>
<td>Louver</td>
</tr>
</tbody>
</table>
Wall Washer Shield AC XB

Shield AC XB is the solution for large-scale, high-brightness architectural illumination. The outdoor-rated Shield AC XB, intended for wall washing and grazing, enables sophisticated bright light output, projecting long distances with a broad range of customization options. The simple connection system and long run length capability enables easy installation for large-scale lighting projects.

**Powered by AC line voltage** AC line voltage eliminates the need for remote LED drivers and allows the fixture to function up to 300 meters from its power source, with up to 32 fixtures per run.

**Simple connection system** Standard daisy-chain topology with combined power and data cable simplifies wiring and lowers installation costs.

**Detachable base design** The detachable base design gives the option of integrated or separated mounting for the base and lamp. The separation of the fixture from the power supply makes the Shield AC highly durable, easy to maintain, and flexible for use in many different scenarios.

**Field-installable connectors** The field-installable connectors allow the optimization of cable lengths and fixture positions.

**Various customization options** Shield AC XB customization choices include number of LEDs per fixture; LED color combinations (warm white, cold white and dynamic white) and beam angle.

**Outdoor-rated** Designed to accommodate exterior environments, Shield AC XB’s IP66 rating renders it a strong solution for exterior façade illumination.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>10°</th>
<th>20°</th>
<th>30°</th>
<th>40°</th>
<th>40° x 10°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR</td>
<td>RGB</td>
<td>2700K</td>
<td>Warm White</td>
<td>6500K</td>
<td>Cold White</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>IP66</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUMINOUS FLUX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFICACY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Warm White (2700K)**
- Luminous Flux*: 1114 lm (30° optics)
- Efficacy: 21 lm/W (30° optics)
- Power Consumption: 53W

**Cold White (6500K)**
- Luminous Flux*: 2583 lm (30° optics)
- Efficacy: 48.7 lm/W (30° optics)
- Power Consumption: 53W

* Typical luminous flux value. Actual flux will vary according to optics used.
ILLUMINATION

Christ the Redeemer Monument, Rio de Janeiro, Brazil
Lighting Designer: Peter Gasper
Production Innovation Awards (PIA)
Best Renovation/Retrofit using SSL 2012

Crystal Hall, Baku, Azerbaijan
Lighting Designer: Lichtvision
illumni Infinity Award
illumni Infinity Awards ‘Bronze’ for facade lighting 2013 2013

Trans Studio Bandung Roller Coaster, Bandung, Indonesia

Christ the Redeemer Monument, Rio de Janeiro, Brazil | Crystal Hall, Baku, Azerbaijan | Trans Studio Bandung Roller Coaster, Bandung, Indonesia
Shield AC Extend

Shield AC Extend is the answer for high-brightness architectural illumination where precise, long-distance aiming is mandatory. The outdoor-rated Shield AC Extend, intended for wall washing and grazing on a massive scale, enables sophisticated bright light RGB output of more than 5500 lumens. Shield AC Extend’s modular mounting frame system and adjustable LED head allows accurate beam positioning, even when projecting to great lengths. The simple connection system and long run length capability of up to 8 fixtures enable easy installation for large-scale lighting projects.

Powered by AC line voltage 100 - 240V AC line voltage eliminates the need for remote LED engines, and allows the fixture to function up to 300 meters from its power source, with up to 8 fixtures per run.

Simple connection system By using standard daisy-chain topology, with combined power and data cable, the Shield AC Extend system simplifies wiring and lowers installation costs.

Independent adjustable LED head Adjustable LED head allows for flexible, precision aiming capable of pinpointing specific areas or features to be illuminated, or a rich, seamless distribution of light over expansive areas.

Outdoor-rated Designed to accommodate exterior environments where a rich, even wash or graze is necessary, Shield AC Extend’s IP66 rating renders it a strong solution for exterior façade illumination.

**Technical Specifications & Options**

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>0°</th>
<th>10°</th>
<th>20°</th>
<th>30°</th>
<th>40°</th>
<th>40° x 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR</td>
<td>RGB</td>
<td>2700K</td>
<td>6500K</td>
<td>2700K-6500K</td>
<td>Dynamic White</td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>IP66</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL</td>
<td>DMX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUMINOUS FLUX</td>
<td>RGB</td>
<td>Luminous Flux*: 5566 lm (8° optics)</td>
<td>Efficacy: 26.5 lm/W</td>
<td>Power Consumption: 210W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>210W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warm White (2700K)</td>
<td>Luminous Flux*: 11380.04 lm (8° optics)</td>
<td>Efficacy: 64.4 lm/W</td>
<td>Power Consumption: 210W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold White (6500K)</td>
<td>Luminous Flux*: 13128 lm (8° optics)</td>
<td>Efficacy: 62.5 lm/W</td>
<td>Power Consumption: 210W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Typical luminous flux value.
Located in Warsaw, Poland, National Stadium is a first class venue that is capturing the world’s attention. The stadium’s distinctive façade is characterized by structural mesh panels which conceal over 1,700 custom Traxon Nano Liner Allegro AC XB fixtures in specially designed housing on 72 beams around the stadium. Additionally, one Washer Allegro AC XB fixture is installed atop each of the 72 columns surrounding the venue, creating a combined lighting effect. The fixtures were customized with various beam angles and aimed precisely during installation to allow uniform illumination. National Stadium’s façade is controlled by Lighting Control Engine 2 (LCE2) and Butler S2, which interface with the stadium’s building management system. The intelligent solution transforms the stadium exterior into a static or dynamic sequence of bold, moving patterns and graphical announcements.
System Solution

Nano Liner Allegro AC XB

Washer Allegro AC XB

DMX512

Butler S2

Lighting Control Engine 2 (LCE2)

Lighting Application Suite (LAS)

Control
BASF Corporation, Florham Park, NJ, USA
Ambiance & Accent Overview

Ambiance & Accent solutions dynamically enhance environments of any size and complexity. Low-profile design allows easy installation in nearly any location giving these unassuming fixtures the ability to impact the mood of any space, in an elegant and unobtrusive manner. Plug’n’Play cabling and connection make installation quick and easy regardless of the scale of installation.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cove Light AC HO RGBW</td>
<td>30</td>
</tr>
<tr>
<td>Cove Light AC HO / HO Graze</td>
<td>32</td>
</tr>
<tr>
<td>Cove Light AC Dim</td>
<td>34</td>
</tr>
<tr>
<td>Cove Light AC HE</td>
<td>36</td>
</tr>
<tr>
<td>1PXL Cove Light XR</td>
<td>38</td>
</tr>
<tr>
<td>1PXL Strip</td>
<td>38</td>
</tr>
<tr>
<td>1PXL Board</td>
<td>40</td>
</tr>
<tr>
<td>Add-on Board &amp; Add-on Strip</td>
<td>40</td>
</tr>
<tr>
<td>16PXL Board RGB</td>
<td>42</td>
</tr>
<tr>
<td>Add-on Board &amp; Add-on Strip</td>
<td>42</td>
</tr>
<tr>
<td>Monochrome Tube</td>
<td>44</td>
</tr>
<tr>
<td>System Solution</td>
<td>46</td>
</tr>
</tbody>
</table>
Nemours Children’s Hospital, Orlando, FL, USA | UNIQLO Myeongdong Central Flagship Store, Seoul, Korea | Quality Alexandra Hotel, Molde, Norway
Cove Light AC HO RGBW

Cove Light AC HO RGBW is a high output, energy efficient LED cove fixture that is capable of producing high quality white light and dynamic colored lighting for a wide range of indoor lighting applications from alcove to wall grazing and indirect illumination. Comprising pure white and RGB LEDs in optimized configuration, Cove Light AC HO RGBW truly generates seamless color mixing and unlimited lighting effects. Equipped with 180° rotation axis for flexible aiming, the versatile design is available in different lengths for flexible installation up to 96 feet long. The simple cabling and connection make installation quick and easy. Cove Light AC HO RGBW is the perfect solution for a wide range of indoor lighting applications in retail, hospitality, and entertainment environments.

Powered by AC line voltage 120/240/277V AC line voltage eliminates external power supplies enabling quick project setup thus lowers maintenance cost.

True full color RGBW 4 channel RGBW control to provide true full color dynamic effect.

Seamless color mixing Superior and flawless color consistency.

Flexible aiming 180° rotation axis allows flexible mounting and positioning in various environments.

Versatile design Low profile linear cove fixtures can produce solid white, solid color, dynamic white or color-changing light at various levels of intensity.

Simple cabling and connection Can be daisy-chained up to 48ft (120V) / 96ft (240/277V) allowing extended run lengths.

High output and efficacy Light output of 300 lumens per foot and an efficacy of 27 lumens per Watt.

Multiple fixture lengths Available in 1ft and 3ft lengths to accommodate varying space requirements.

Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>120° x 120°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR TEMPERATURE</td>
<td>RGBW W: 3000K</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
</tr>
<tr>
<td>LUMINOUS FLUX</td>
<td>300 lm/ft</td>
</tr>
<tr>
<td>EFFICACY</td>
<td>27 lm/W</td>
</tr>
<tr>
<td>CONTROL</td>
<td>DMX</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>11W/ft</td>
</tr>
</tbody>
</table>
Cove Light AC HO
IES Progress Report
Accepted
2013

Public Library Foyer, Vancouver, Canada | DOMO Showroom, Paris, France | Subsuelo Bar, Pamplona, Spain
Cove Light AC HO / HO Graze

Cove Light AC HO/ HO Graze (High Output) is superiorly bright and efficient. Powered directly with AC line voltage, Cove Light AC HO/ HO Graze is suitable for a wide range of wall washing, accent, and indirect lighting applications in architectural, hospitality, and retail environments. Offering superior brightness and efficacy at a competitive price, Cove Light AC HO/ HO Graze is ideal for projects that require seamless white light color consistency, ultra energy efficiency and flicker-free wide range dimming. Its simple Plug’n’Play cabling and connection make installation quick and easy.

**Powered by AC line voltage** AC line voltage (120V/ 240V/ 277V) eliminates the need for external power supplies and enables extended run lengths.

**High output and efficacy** Light output of 656-744 lumens per foot, and an efficacy of 60 lm/W (2700K) or 68 lm/W (4000K) while consuming 11 watts per foot.

**Wide range of CCT output** Highly efficient LEDs output a variety of dedicated color temperatures ranging from comforting hues of warm (2700K, 3000K, 3500K), over neutral white (4000K).

**Multiple fixture lengths** Available in 1ft and 3ft lengths, Cove Light AC HO easily accommodates varying installation space requirements.

**Phase cut dimming** Fixtures offer 5% - 100% dimming resolution without flickering.

**Flexible aiming** Cove Light AC HO/ HO Graze is equipped with a 180° rotation axis and rotations in 10° increments for flexible aiming.

**Three beam options** Wide beam version offers 120° x 120°. Narrow beam versions 60° x 30° and 50° x 10° offer gentle illumination or more focused grazing.

**Simple cabling and connection** Cove Light AC HO/ HO Graze can be daisy-chained up to 50 feet (120V), 100 feet (240V) or up to 135 feet (277V) per power run and is connectable with Plug’n’Play topology thus enabling easy installation and lowering maintenance costs.

**Superior binning** With superior fine binning, every of these special fixtures provides high-quality and ultra consistency of linear light.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>120° x 120°</th>
<th>60° x 30°</th>
<th>50° x 10°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR TEMPERATURE</td>
<td>2700K Warm White</td>
<td>3000K Warm White</td>
<td>4000K Neutral White</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUMINOUS FLUX*</td>
<td>656 - 744 lm/ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFICACY*</td>
<td>60 - 68 lm/W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>11W/ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Louver</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Range is respective to color temperature from 2700K - 4000K. See technical specification sheet page from www.traxontechnologies.com for details.

33
Cove Light AC Dim
Production Innovation Awards (PIA)
PIA12 - Category: Cove/Linear/Wall Wash
2012

Nemours Children’s Hospital, Orlando, FL, USA | BASF Corporation, Florham Park, NJ, USA
Cove Light AC Dim

Cove Light AC Dim are highly efficient and extremely versatile. Powered directly with line voltage and compatible with and controlled by leading/trailing edge phase-cut dimmers, Cove Light AC Dim are suitable for a wide range of applications in architectural, hospitality, and residential environments for general lighting, wall washing, and alcove illumination. They are a cost efficient, energy smart solution, with a high output of 339 - 380 lumens per foot for warm white and neutral white applications, making it a versatile tool for ambient lighting scenarios.

**Powered by AC line voltage** 120/240/277 AC line voltage eliminates the need for external power supplies and enables extended run lengths.

**Wide range of CCT output** Highly efficient LEDs output a variety of dedicated color temperatures including comforting hues of warm (2400K, 2700K, 3000K, 3500K), and neutral (4000K) white.

**Phase cut dimming** Fixtures offer 5% - 100% dimming resolution without flickering.

**Flexible aiming** Cove Light AC Dim are equipped with a 180° rotation axis and locking rotations in 5° increments for flexible aiming.

**Daisy-chain topology, simple cabling and connection** Cove Light AC Dim can be daisy-chained up to 75 units (120V), 150 units (240V), or 220 units (277V) per power run and is connectable with Plug’n’Play topology thus enabling easy dimming without additional wiring control, and lowering installation and maintenance costs.

---

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>135° x 135°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR TEMPERATURE</td>
<td>Warm White</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
</tr>
<tr>
<td>LUMINOUS FLUX</td>
<td>339 - 380 lm/ft</td>
</tr>
<tr>
<td>EFFICACY / INPUT POWER</td>
<td>48 - 55 lm/W</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>7W</td>
</tr>
<tr>
<td>DIMMING</td>
<td>Compatible with leading/trailing edge phase-cut dimmers*</td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td>Mounting Track</td>
</tr>
</tbody>
</table>

* Check compatible dimmer list at www.traxontechnologies.com
AMBIANCE & ACCENT

Staircase Trostberg, Trostberg, Germany | Corporate Office Break Room, Overland Park, KS, USA | St. Joseph’s Regional Medical Center, Paterson, NJ, USA
Cove Light AC HE

Cove Light AC HE is the model of efficient simplicity. This highly energy and cost-efficient solution is a strong alternative to traditional linear incandescent or fluorescent ambiance and alcove lighting options. Cove Light AC HE’s low profile, AC line voltage and daisy chain topology allow for up to 150 units per power run at 120V, and 300 units per power run at 220V. Paired with an ultra wide beam spread of 120° x 120°, it is suitable for interior architectural, hospitality, retail, and even residential applications where rich, white wall washing and glowing alcoves are required.

Extremely Efficient Cove Light AC HE is a high output, low energy fixture offering an efficacy of 60 to 68 lumens per watt and uses 3.1 W/ft (120V), 3.4W/ft (220V).

Powered by AC line voltage AC line voltage eliminates the need for external power supplies and enables daisy-chain topology for extended run lengths of up to 150 units per power run at 120V, and 300 units per power run at 220V.

Four color temperatures Highly efficient LEDs output a variety of three color temperatures ranging from comforting hues of warm (2700K, 3000K, 3500K) to neutral (4000K) white.

Ultra wide bream spread An open beam spread of 120° x 120° enables low mixing distance for the cove height.

Flexible aiming Cove Light AC HE is equipped with a 180° rotation axis and locking rotations in 5° increments for flexible aiming.

Technical Specifications & Options

| BEAM ANGLE | 120° x 120° |
| COLOR TEMPERATURE | 2700K Warm White, 3000K Warm White, 3500K Warm White, 4000K Neutral White |
| ENVIRONMENT | INDOOR |
| LUMINOUS FLUX | 185 - 211 lm/ft |
| EFFICACY | 60 - 68 lm/W |
| POWER CONSUMPTION | 3.1W (120V), 3.4W (220V) |
| ACCESSORIES | Mounting Track |
AMBIANCE & ACCENT

TV Today Network Studio, Noida, India  |  Clarion Hotel Bergen Airport, Bergen, Norway
1PXL Cove Light XR and 1PXL Strip elegantly enhance and detail installations of any size. Whether adding a subtle glow to an alcove or soffit, or drawing attention to significant architectural detail, 1PXL Cove Light XR and 1PXL Strip provide a concentrated, low-profile accent to interior installations. Equipped with 12 ultra-bright, auto-addressable surface mounted LEDs, the 1PXL Cove Light XR’s acrylic casing refines it for direct view. Its generous 180-degree locking rotation allows for flexible aiming and easy installation. Similar to the Cove Light XR but without the acrylic casing, 1PXL Strip features 12 ultra-bright, auto-addressable surface mounted LEDs, and is optimal when mounted behind diffusion materials such as stretched canvas, or in reflective alcoves and soffits.

**Wide beam angle** 1PXL Cove Light XR and 1PXL Strip offer a wide beam angle of 120°, making them efficient tools for decorative illumination, stunning backlighting, or highlighting of unique architectural detail on varying levels of complexity.

**Various color options** 1PXL Cove Light XR and 1PXL Strip are available in RGB and Dynamic White options to accommodate diverse color and white installations. To further a dramatic and customizable effect, a dynamic white option is available, which allows the user to tune various white temperatures from warm to cold, thus achieving the flawless white of their choosing.

**Low-profile, light-weight design** 1PXL Cove Light XR and 1PXL Strip’s design offers a wide range of installation possibilities including inside narrow coves, behind soffit edges, and along corridors for way-finding.

**Direct-view and easy installation** A transparent acrylic cover and white ABS back case house the 1PXL Cove Light XR’s high-intensity LEDs. Its 150-degree locking rotation ensures simple installation and flexible aiming. This sturdy yet refined fixture is ideal for direct view applications. (1PXL Cove Light XR only)

**Simple connection with TX CONNECT® Smart** Power (24V) and data (DMX512) are combined into one cable with the simple TX CONNECT® system, a universal system that enables Plug’n’Play set up.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th></th>
<th>1PXL Cove Light XR</th>
<th>1PXL Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEAM ANGLE</strong></td>
<td>120°</td>
<td>120°</td>
</tr>
<tr>
<td><strong>COLOR TEMPERATURE</strong></td>
<td>RGB</td>
<td>RGB</td>
</tr>
<tr>
<td></td>
<td>2700K - 6500K</td>
<td>2700K - 6500K</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
<td>INDOOR</td>
<td>INDOOR</td>
</tr>
<tr>
<td><strong>LUMINOUS FLUX</strong></td>
<td>83 lm (RGB), 225 lm (DW)</td>
<td>93.6 lm (RGB), 254 lm (DW)</td>
</tr>
<tr>
<td><strong>EFFICACY</strong></td>
<td>22 lm/W (RGB), 31.5 lm/W (DW)</td>
<td>25 lm/W (RGB), 35.5 lm/W (DW)</td>
</tr>
<tr>
<td><strong>POWER CONSUMPTION</strong></td>
<td>6W (RGB), 10W (DW)</td>
<td>6W (RGB), 10W (DW)</td>
</tr>
<tr>
<td><strong>INPUT POWER</strong></td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
AMBIANCE & ACCENT

St. Joseph’s Regional Medical Center, Paterson, NJ, USA | V City Mall, Hong Kong, China | Pachinko ZAP Ofuna Hall, Kanagawa, Japan
1PXL Board
Add-on Board & Add-on Strip

1PXL Board transforms a variety of environments with a rich, ambient glow. Intelligent and unobtrusive, the low-profile matrix of light is capable of static or animated low-resolution graphics, providing decorative illumination and stunning backlighting for a variety of indoor scenarios. Equipped with 16 ultra-bright, auto-addressable surface mounted LEDs, 1PXL Board is ideal when mounted behind diffusion materials such as stretched canvas, or semi-translucent solids, which soften and spread its colorful output, adding depth and accent to indoor environments. Each 1PXL Board is addressed as one single source pixel within an installation. Additionally, an Add-on Board and Add-on Strip of the same pixel pitch and wide beam angle are available to extend 1PXL Board’s light beyond its fixed dimensions.

Medium pixel pitch, wide beam angle 1PXL Board offers a 62.5 mm LED pitch and a wide beam angle of 120°, making it an efficient tool for low resolution graphics, decorative illumination, or stunning backlighting on varying levels of complexity.

Various color options 1PXL Board is available in RGB to accommodate dramatic color installations. To further a dramatic and customizable effect, a dynamic white option is available, which allows the user to tune various white temperatures from warm to cold, thus achieving the flawless white of their choosing.

Low-profile, light-weight design 1PXL Board’s design offers a wide range of installation possibilities, including applications on ceilings and inside floors.

Add-on Board and Add-on Strip A 4PXL Add-on Strip and a 4PXL Add-on Board of the same LED pitch and wide beam angle, extend 1PXL Board’s ability to adapt into installations of any dimension. These Add-ons feature dipswitches on their reverse side which, when toggled, allow each Add-on to be addressed as a single pixel. Add-ons fill the small spaces not covered by the full Board, ensuring complete coverage for medium-resolution media scenarios. They can also be used separately as small, more scalable pieces.

Simple connection with TX CONNECT® Smart Power (24V) and data (DMX512) are combined into one cable with the simple TX CONNECT® system, a universal system that enables Plug’n’Play set up.

Technical Specifications & Options

<table>
<thead>
<tr>
<th>1PXL Board</th>
<th>4PXL Add-on Board &amp; Add-on Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEAM ANGLE</td>
<td>120°</td>
</tr>
<tr>
<td>COLOR</td>
<td>RGB</td>
</tr>
<tr>
<td>TEMPERATURE</td>
<td>2100K - 5000K Dynamic, White</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
</tr>
<tr>
<td>LED PITCH</td>
<td>62.5mm / 2.5”</td>
</tr>
<tr>
<td>INPUT POWER</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
16PXL Board RGB
Add-on Board & Add-on Strip

16PXL Board RGB creates visual intrigue with a sleek matrix of light. Capable of static or animated, low-resolution graphics and video replay, 16PXL Board RGB provides functional lighting or decorative illumination for a variety of indoor scenarios. Equipped with 16 ultra-bright, auto-addressable surface mounted LEDs, 16PXL Board RGB is ideal when mounted behind diffusion materials such as stretched canvas, or semi-translucent solids, which soften and spread its colorful output, adding depth and accent to indoor environments. Additionally, an Add-on Board and Add-on Strip of the same pixel pitch and wide beam angle are available to extend 16PXL Board’s light beyond its fixed dimensions.

Medium pixel pitch, wide beam angle 16PXL Board RGB offers a 62.5 mm pixel pitch and a beam angle of 120°, making it an efficient tool for low resolution graphics, text, and video replay on varying levels of complexity.

Low-profile, light-weight design Board’s design offers a wide range of installation possibilities, including applications on ceilings and inside floors.

Add-on Board and Add-On Strip A 4PXL Add-on Strip and a 4PXL Add-on Board of the same pixel pitch and wide beam angle, extend 16PXL Board’s ability to adapt into installations of any dimension. Add-ons fill the small spaces not covered by the full Board, ensuring complete coverage for medium-resolution media scenarios. They can also be used separately as small, more scalable pieces.

Simple connection with TX CONNECT® Smart Power (24V) and data (DMX512) are combined into one cable with the simple TX CONNECT® Smart, a universal system that enables Plug’n’Play set up.

Smart Chip technology Each of the 16 pixels are auto-addressable and easily configured.

Technical Specifications & Options

<table>
<thead>
<tr>
<th></th>
<th>16PXL Board RGB</th>
<th>4PXL Add-on Board &amp; Add-on Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEAM ANGLE</td>
<td>120°</td>
<td>120°</td>
</tr>
<tr>
<td>COLOR</td>
<td>RGB</td>
<td>RGB</td>
</tr>
<tr>
<td>TEMPERATURE</td>
<td>INDOOR</td>
<td>INDOOR</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
<td>INDOOR</td>
</tr>
<tr>
<td>LED PITCH</td>
<td>62.5 mm / 2.5”</td>
<td>62.5 mm / 2.5”</td>
</tr>
<tr>
<td>INPUT POWER</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
Monochrome Tube

Contours of warm white or cold white light impose a magnetic attraction to linear details in interior and exterior environments. Monochrome Tube distinguishes façades, walls, and borders with a concentrated, even radiance due to its front diffuser. Compact, low-profile design available in three different lengths, combined with project-specific mounting options allows the Monochrome Tube to meet rigorous application demands. For installations of varying size, the Monochrome Tube offers flexibility and lends vitality to any project.

**Sleek, slim profile**  The slender fixture housing allows Monochrome Tube to fit into the smallest of installation spaces. Though small and easily hidden from view, Monochrome Tube continues to deliver even strips of white light.

**Three fixture lengths**  Available in three different lengths (500 mm; 995 mm; 1490 mm) Monochrome Tube accommodates a wide variety of required installation spaces.

**Optional dimming**  Monochrome Tube may be dimmed via DMX512 through pulse-width modulation (DMX2PWM).

**Daisy-chain topology and simple cabling**  Monochrome Tube can be daisy-chained up to 12m per power run, lowering installation and maintenance costs.

**Simple connection system**  Plugin/Play topology simplifies wiring and lowers installation costs.

---

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>Monochrome Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COLOR</strong></td>
</tr>
<tr>
<td><strong>TEMPERATURE</strong></td>
</tr>
<tr>
<td>Warm White</td>
</tr>
<tr>
<td>Cold White</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
</tr>
<tr>
<td>Suitable for Coastal Environment</td>
</tr>
<tr>
<td><strong>LUMINOUS FLUX</strong></td>
</tr>
<tr>
<td>210 lm (Warm White), 260 lm (Cold White)</td>
</tr>
<tr>
<td><strong>POWER CONSUMPTION</strong></td>
</tr>
<tr>
<td>3.7 W (500 mm), 7.5 W (995 mm), 11 W (1490 mm)</td>
</tr>
<tr>
<td><strong>INPUT POWER</strong></td>
</tr>
<tr>
<td>48 V DC – Utilizes LED Engine Universal PSU (90-295 V)</td>
</tr>
</tbody>
</table>

* Luminous Flux based on 995mm Monochrome Tube.
David H. Koch Theater, Lincoln Center, New York, NY, USA

Located in New York’s historic and renowned Lincoln Center, the David H. Koch Theater lobby ticket windows feature a glowing Corian wall. This clean and crisp installation is surfaced with custom cut Corian diffusion, which tells the theatre’s story in elegance and style. To set a mood of sophistication, over 560 Traxon 1PXL Board Warm White illuminate the interior of the corrugated Corian panel cut precisely to give the illusion of an opera scene when viewed from one angle, and a ballet scene when viewed from the other, both in photographic grey scale. An e:cue Butler S2 and Butler XT2 allow for flawless switching of the installation.
System Solution

- Optional Glass Touch

- 1PXL Board Dynamic White

- DMX512

- Power

- Butler XT2

- Lighting Application Suite (LAS)

- Control

- LED Engine Smart 100W 24V Indoor
Media & Façade Solutions Overview

Media & Façade Solutions make graphics, text, and video come to vibrant life. The answer for scalable applications where elegant display must accommodate various resolutions or challenging surfaces, Media & Façade systems can be applied as aesthetic enhancements or used as functional messaging tools to transform interior and exterior surfaces into works of art. Paired with sophisticated software for maximum control capability of even the most intricate scenarios, these solutions reinvent the large-scale media experience.
Mesh RGB
Red Dot
Red Dot Design Award in 2009
2009

Mesh RGB
2010 IIDEX/NeoCon Canada Innovation Awards
Innovative Lighting - Bronze
2010
Mesh

Mesh systems reinvent the large-scale media experience. The sophisticated, scalable, semi-transparent LED system elegantly transforms any surface into a brilliant palette for graphics, text, and video animations in full color (RGB). Mesh's semi-transparent, durable yet flexible structure, allows it to adapt to many surfaces in various applications, in both indoor and outdoor environments. Its acrylic grid system can also be mounted back-to-back for dual displays, allowing bright graphics to shine, and natural light to pass through without obstructing a view or diminishing an open-area concept. Mesh is controllable by DMX512 and e:pix/DVI input signals, and Smart Chip technology and intelligent software allow maximum control of even the most intricate media scenarios.

**Flexible, semi-transparent acrylic grid**  Mesh's 70% transparent, durable structure allows it to be used as a room divider, placed against glass, or installed on an irregular plane.

**Back-to-back mounting capability**  Mesh can also be connected back-to-back for dual media displays under separate control, allowing natural light to pass through and without obstructing a view or diminishing an open-area concept.

**Low-to-medium resolution**  Each Mesh unit is comprised of eight hinged acrylic grids, totaling 160 individually-controllable LED nodes allowing low-to-medium resolution large-scale graphics, text, and video animations.

**Outdoor-rated**  Mesh is IP67-rated, UV-resistant, and designed to withstand outdoor elements, rendering it a reliable solution for both indoor and outdoor environments.

**Smart Chip technology**  Each Mesh pixel is auto-addressable and easily configured.

---

**Technical Specifications & Options**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beam Angle</strong></td>
<td>120°</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>RGB</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Pixel Distributor</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>600 cd/m²</td>
</tr>
<tr>
<td><strong>Light Source</strong></td>
<td>160 (5 x 32) LEDs</td>
</tr>
<tr>
<td><strong>Pixel Pitch</strong></td>
<td>62.5mm / 2.5&quot;</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
String systems accomplish complex, unconventional media configurations with intelligence and style. Sophisticated, scalable, String systems alter and enhance architectural, retail, and hospitality environments adding unexpected character to classic scenarios. Available in full color (RGB) option and with or without a diffuser dome, String gracefully incorporates graphics, text, and video into various, irregular surfaces, resulting in unordinary media displays never before possible. String is controllable by DMX512 and e:pix input signals, and Smart Chip technology and intelligent software allow maximum control of even the most intricate media scenarios.

Flexible mounting capability  String systems are not confined to a rigid, pre-determined form or structure, and can therefore accommodate a variety of irregular surfaces, planes, and configurations. The String system is direct surface or DIN rail mountable.

Low-to-medium resolution  Each unit is comprised of five durable Strings, with each string consisting of 32 pixels, totaling 160 individually-controllable LED nodes per set, allowing low-to-medium resolution graphics, text, and video animations. String is available with or without a diffuser dome.

Outdoor-rated  String is IP67-rated, UV-resistant, and designed to withstand outdoor elements, rendering it a reliable solution for both indoor and outdoor environments.

Smart Chip technology  Each String pixel is auto-addressable and easily configured.

![String System Diagram](image)

Technical Specifications & Options

<table>
<thead>
<tr>
<th>Direct View</th>
<th>With Diffuser Dome</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEAM ANGLE</td>
<td>120°</td>
</tr>
<tr>
<td>COLOR</td>
<td>RGB</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>Pixel Distributor</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>600 cd/m²</td>
</tr>
<tr>
<td>LIGHT SOURCE</td>
<td>32 LEDs (per String), 160 LEDs (per set)</td>
</tr>
<tr>
<td>PIXEL PITCH</td>
<td>62.5mm / 2.5&quot;</td>
</tr>
<tr>
<td>INPUT POWER</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
Silo 468; Helsinki, Finland
Lighting Designer: Lighting Design Collective
illumi Infinity Award
illumi Infinity Awards “Gold” for Light art installations 2013
2013
Dot XL

Dot XL is the ultra-bright, fully-customizable solution for creative and demanding media projects. Configurations of three, six, or nine LEDs within each enclosed Dot casing, and numerous additional customization options, render Dot XL’s flexibility unmatchable and its application possibilities nearly limitless. Each Dot is individually-addressable making this durable, scalable solution equally ideal for vivid accent, text, graphics, and video replay in installations of any size and complexity. DotXL is IP67-rated and designed to withstand weather-changing environments. Suitable for daylight viewing, it also shines brilliantly through adverse exterior conditions to boldly communicate messaging or evoke emotion. Dot XL is controllable by DMX512 and e:pix/DVI input signals, and its Smart Chip technology and intelligent software allow maximum control of even the most intricate media scenarios.

Various customization options Dot XL RGB customization choices include number of LEDs per round Dot casing (3, 6, or 9); pixel pitch; and diffuser dome.

Flexible mounting capability Mounted on a flexible string, Dot XL is not confined to a rigid, pre-determined form or structure, and can therefore accommodate a variety of irregular surfaces, planes, and configurations.

Outdoor-rated Dot XL is IP67-rated, UV-resistant, and designed to withstand outdoor elements, rendering it a reliable solution for both indoor and outdoor environments.

Smart Chip technology Each Dot XL pixel is auto-addressable and easily configured.

Technical Specifications & Options

<table>
<thead>
<tr>
<th>BEAM ANGLE</th>
<th>120°</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR</td>
<td>RGB</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>Pixel Distributor</td>
</tr>
<tr>
<td></td>
<td>IP65</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>2396 cd/m² @ 100 mm pitch*</td>
</tr>
<tr>
<td>LIGHT SOURCE</td>
<td>3, 6, or 9 LEDs per Dot</td>
</tr>
<tr>
<td>LED PITCH</td>
<td>150mm (Dot XL-3), 300mm (Dot XL-6, Dot XL-9)</td>
</tr>
<tr>
<td>INPUT POWER</td>
<td>15VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
<tr>
<td>CONTROL</td>
<td>DMX / e:pix (DVI capable)</td>
</tr>
</tbody>
</table>

* Based on Dot XL-9 RGB 100mm pitch configuration.
Media Tube®

Media Tube®'s versatility adds a unique twist to various architectural, retail, or hospitality environments, with linear ribbons of light or sharp video and text. Capable of replaying medium-to-high resolution graphical content or embellishing the simplest of architectural details, Media Tube®'s slim profile, customizable pixel count and color, result in a crisp, precise media installation, whether designed as a linear run or configured as a large-scale media screen. Media Tube® is available in both direct-view and diffused options to accommodate a range of applications.

**Various customization options**  Available in several lengths, Media Tube® RGB customization options include number of pixels per linear fixture, and a choice of direct or diffused view.

**Flexible mounting capability**  Mounting bracket options allow for placement anywhere along the fixture, accommodating a variety of irregular surfaces, planes, and configurations.

**Outdoor-rated**  Media Tube® is IP66/67-rated, UV-resistant, and designed to withstand outdoor elements, rendering it a reliable solution for both indoor and outdoor environments.

**Daisy-chain topology and simple cabling**  Media Tube® can be daisy-chained up to 10 meters on a single power run, lowering installation and maintenance costs. Each pixel is auto-addressable and easily configured.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th><strong>Direct View</strong></th>
<th><strong>Diffused</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEAM ANGLE</strong></td>
<td>120°</td>
</tr>
<tr>
<td><strong>COLOR</strong></td>
<td>RGB</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
<td>Suitable for Coastal Environment</td>
</tr>
<tr>
<td><strong>BRIGHTNESS</strong></td>
<td>1320 cd/m² @ 25mm x 50mm pitch</td>
</tr>
<tr>
<td><strong>LED PITCH</strong></td>
<td>25mm</td>
</tr>
<tr>
<td><strong>INPUT POWER</strong></td>
<td>48VDC – Utilizes LED Engine Universal PSU (90-305V)</td>
</tr>
<tr>
<td><strong>CONTROL</strong></td>
<td>DMX / e:pix (DVI capable)</td>
</tr>
</tbody>
</table>
Triumph, Vienna, Austria | Shanghai World EXPO, Shanghai, China | Lutron Showroom, New York City, USA
64PXL Board RGB
Add-on Board & Add-on Strip

64PXL Board RGB is an efficient tool for dynamic communication and visual enhancement of a range of environments, from commercial to hospitality and entertainment installations. With its tight pitch and wide beam angle, 64PXL Board RGB beautifully reproduces full color, medium-resolution graphics, text, and video, in indoor environments. 64PXL Board’s low profile makes it ideal for placement behind solid or fabric diffusion material, for a softened image quality and evenly-distributed light. 64PXL Board RGB is controllable by DMX512 and e:pix/DVI input signals, as well as Smart Chip technology and intelligent software allow maximum control each of the 64 individually-addressable pixels, in even the most intricate media scenarios. Additionally, an Add-on Board and Add-on Strip of the same pixel pitch and wide beam angle are available to extend 64PXL Board’s light beyond its fixed dimensions. Filling the remaining margins of unordinary installations, Add-on Boards and Add-on Strips further 64PXL Board’s flexibility.

Tight pixel pitch, wide beam angle 64PXL Board offers a 31.25 mm pixel pitch and a wide beam angle of 120°, making it an efficient tool for graphics, text, and video replay of varying levels of complexity.

Low profile  A minimal standoff distance allows 64PXL Board to remain close to its mounting surface, resulting in an unobtrusive contour, ideal for placement behind solid or fabric diffusion.

Add-on Board and Add-On Strip An 8PXL Add-on Strip and a 16PXL Add-on Board of the same pixel pitch and wide beam angle, extend 64PXL Board’s ability to adapt into installations of any dimension. The Add-on’s individually-addressable pixels fill the small spaces not covered by the full Board to ensure complete coverage.

Smart Chip technology  Each pixel on 64PXL Board, 8PXL Add-on Strip, and 16PXL Add-on Board, is auto-addressable and easily configured.

Technical Specifications & Options

<table>
<thead>
<tr>
<th>64PXL Board RGB</th>
<th>16PXL Add-on Board &amp; 8PXL Add-on Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEAM ANGLE</td>
<td>120°</td>
</tr>
<tr>
<td>COLOR</td>
<td>RGB</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>INDOOR</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>2587 cd/m²</td>
</tr>
<tr>
<td>INPUT POWER</td>
<td>24VDC – Utilizes LED Engine Universal PSU (100-280V)</td>
</tr>
</tbody>
</table>
IMAGIC WEAVE® HE/HO
Production Innovation Awards (PIA)
PIA13 - Category: Building Enclosure
2013

Hypercube Skolkovo, Moscow, Russia | Grand Stade Lille Métropole, Lille, France
**IMAGIC WEAVE®**

IMAGIC WEAVE® masters the balance of aesthetic structures and illumination art. The creative and sustainable possibilities of Traxon LED tubes integrated into the rugged structural durability of Haver & Boecker’s stainless steel mesh, meld together to become a woven grid equipped with individually-addressable LEDs, which converts building façades into unique, transparent canvases for vivid, large-scale media.

IMAGIC WEAVE® steel composition act as a flat, unobtrusive second skin, protecting the building from harsh elements and harmful UV rays while serving as a thermal layer. Its linear LED configurations are easily attached to the mesh structure with a patented clip system, which enables uncomplicated maintenance and addition of LED configurations. Various pixel pitches render them capable of medium resolution graphics, text, and video animations in full color.

The IMAGIC WEAVE® range is IP67-rated for indoor and outdoor environments, with an available optimal viewing distance of 40 meters to 400 meters. IMAGIC WEAVE® units are custom built for each individual project, and are controllable by DMX512 and e:pix/DVI input signals, Smart Chip technology, and intelligent software for maximum control of even the most intricate media scenarios.

**Rugged structure** Built on the durable structure of Haver & Boecker’s stainless steel wire mesh, IMAGIC WEAVE® HO (High Output) and IMAGIC WEAVE® HE (High Efficiency) communicate strong industrial design influences and contribute to the character of any façade with its clean, non-obstructive surface.

**Many customization options** LED profile length; number of pixels (from 8 to 72 LED pixels per profile piece); and the configuration and location of each LED profile, can be custom selected.

**Simple assembly** Linear LED configurations are easily attached to the steel mesh with a patented clip system, allowing easy installation and maintenance of the LED tubes.

**Medium-resolution** With typical pixel pitches of 40mm, 50mm, and 62.5mm for IMAGIC WEAVE® HO, and IMAGIC WEAVE® HE, the product line is capable of a wide range of resolutions in full color at various brightness levels up to 8400 nits, visible in daylight.

**Outdoor-rated** IMAGIC WEAVE® range is IP67-rated, UV-resistant, and designed to withstand outdoor elements. Additionally, it serves as a second skin, shielding building façades from sunlight while acting as a thermal layer.

**Smart Chip technology** Each pixel is auto-addressable and easily configured, controlled via DMX512 and e:pix (DVI-capable) protocols.

---

### Technical Specifications & Options - IMAGIC WEAVE®

<table>
<thead>
<tr>
<th></th>
<th>IMAGIC WEAVE® HO</th>
<th>IMAGIC WEAVE® HE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEAM ANGLE</strong></td>
<td>110°</td>
<td>105° x 50°</td>
</tr>
<tr>
<td><strong>COLOR</strong></td>
<td>RGB</td>
<td>RGB</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td><strong>BRIGHTNESS</strong></td>
<td>2200 cd/m² @ 40mm x 40mm pitch</td>
<td>8400 cd/m² @ 40mm x 40mm pitch</td>
</tr>
<tr>
<td></td>
<td>1400 cd/m² @ 50mm x 50mm pitch</td>
<td>5400 cd/m² @ 50mm x 50mm pitch</td>
</tr>
<tr>
<td></td>
<td>900 cd/m² @ 62.5mm x 62.5mm pitch</td>
<td>3400 cd/m² @ 62.5mm x 62.5mm pitch</td>
</tr>
<tr>
<td><strong>INPUT POWER</strong></td>
<td>48VDC – Utilizes LED Engine Universal PSU (90-305V)</td>
<td></td>
</tr>
</tbody>
</table>
Façade Panel*

Powered directly with line voltage, the Façade Panel is an interior-rated media façade solution, which further extends the Façade Solutions portfolio. With its modular design and extensive range in sizes, the Façade Panel allows gapless installation leaving no spacing between the fixture housing and the window frames. The Façade Panel is suitable for interior architectural, hospitality, retail, and entertainment applications where seamless building “skin” effects are desired.

**Design innovation** Modular design enables gapless installation without spacing between the fixture housing and window frames.

**Flexible options** A wide range of panel sizes seamlessly accommodate any installation space without modification to the existing window frames.

**Simple installation** AC line voltage eliminates the need for external power supplies and enables daisy chain topology for fast and easy installation.

**Highly efficient** Ultra bright LEDs are capable of replaying bold graphics and intricate video sequences when paired with an intelligent control system.

### Technical Specifications & Options

| LIGHT SOURCE     | Type A: 600mm-850mm: 24 LEDs, 2PXL  
|                 | Type B: 900mm-1150mm: 36 LEDs, 3PXL  
|                 | Type C: 1200mm-1400mm: 48 LEDs, 4PXL  
| COLOR           | RGB  
| ENVIRONMENT     | ☀️  
| TECHNICAL       | INPUT VOLTAGE: 100-240V AC, 50/60HZ  
| SPECIFICATIONS  | CONTROL: DMX512  

*Non standard item(s). Please clarify availability with the regional sales office.

* W = Type A: 600mm - 850mm / 23.6" - 33.5"  
  Type B: 900mm - 1150mm / 35.4" - 45.3"  
  Type C: 1200mm - 1400mm / 47.2" - 55.1"
Grand Stade Lille Métropole, Lille, France

Clad in a transparent IMAGIC WEAVE® media façade with three areas of varying LED resolution, this magnificent, multi-functional stadium in Lille, France, boasts an external view as exciting and distinctive as the inside. The concept of creating an elegant, clear façade that would bring the stadium to vibrant life through atmospheric light and color in a matter of seconds was seamlessly executed to create a one-of-a-kind experience for fans and passersby, alike. The installation measures 20 meters by 120 meters and includes 70,000 LED pixels, which cover the entire surface of the outer envelope. A Lighting Control Engine 2 fx (LCE2-fx) and 25 Video Micro Converters (VMCs) control the complex videos, graphics, and lighting cues displayed across the IMAGIC WEAVE®. The installation can be controlled wirelessly via a Smartphone or tablet PC, and the varying resolution areas can also be controlled separately.
System Solution

IMAGIC WEAVE®

DMX512/e:pix

Power

Video Micro Converter (VMC)

DVI

Control

LED Engine Smart 1000 W

Lighting Control Engine 2 fx
(LCE2-fx)

Lighting Application Suite (LAS)

Power
Control Software Overview

Control Software includes innovative and intuitive tools that facilitate the design of simple to complex lighting shows, position lighting fixtures in a project plan, and configure Traxon & e:cue and external devices in the central control system. In addition to programming special lighting effects, video-to-light pixel mapping, visualization of the lighting installation, and special triggering and automation features, the e:cue control software reaches far beyond dynamic lighting, providing control capabilities for a wide spectrum including multimedia, show control and building automation systems.
Lighting Application Suite 7.0

The Lighting Application Suite (LAS) 7.0 combines DMX, eDMX and DALI lighting, multimedia, and show control programming with unrivalled connectivity and matrix control features. The software suite offers maximum DMX512/RDM channel control and easier access for the end-user, including the ability to control up to 750,000 channels (via Emotion FX) and operate more than 25,000 RDM systems. The regular Programmer software controls up to 128 universes, or 65,536 DMX512/RDM channels. LAS 7.0 incorporates significant improvements to the Action Pad, a web server for browser or mobile device control, cue lists, and the Dynamic Scroll Text, for fast changes on LED matrix systems, guaranteeing even greater programming control and flexibility. Furthermore, the LAS 7.0 now completely integrates DALI devices with the e:cue ETH2DALI interface.

INNOVATION

Create stunning lighting sequences using the Live FX generator Endless lighting sequence possibilities and effects from simple color-changing chasers to complex, dynamic color patterns can be generated using the Live FX generator.

Program advanced interactive automation or triggering With simple steps, users can program various automation and triggering features for their lighting installation.

Program precisely timed lighting scenes Define transitions between cues, wait times, delay effects, and fade in/out times to the millisecond for the perfect lighting show.

Build multimedia sequences with Emotion FX Real-time video effects, overlay videos, images and scrolling text dynamically, apply real-time effects and route the result to monitors, Video Micro Converters, or output via Butler PRO. Even live streams from cameras or external video sources can be included.

Configure 1:1 pixel mapping of video content Instantly map video pixels to LED nodes for video-to-lighting.

Convert web information into scrolling text The Dynamic Scroll Text function has the ability to convert RSS feeds and website texts into scrolling texts on an LED matrix system.

Preview lighting projects with a Visualizer tool (Imagine) Using the built-in 2D Visualizer or use the Imagine software, tool to preview the lighting show in 3D.

Control lighting shows using an Internet browser An HTML-enabled web server offers browsers the possibility to trigger all functions available within the LAS software package, thus enabling the use of wireless devices or via the free apps specially designed iOS or Android™ devices.*

Intuitively arrange lighting fixtures in your project plan Using the Patchelor tool, users can easily map the lighting fixtures using a background picture of the project for intuitive planning.

Supports RDM protocol for bidirectional communication RDM (Remote Device Management) bidirectional communication allows remote configuration, status monitoring, and management of lighting fixtures with RDM capability. Use the integrated SMTP client to receive status emails of your installations.

SIMPPLICITY

Select standard fixtures using the Fixture Library for easy set-up The Fixture Library includes an extensive list of standard products by major lighting manufacturers. Users can choose fixtures and arrange them, create their own fixture profile for addition of new or custom fixtures.

Organize and group fixtures Cluster fixtures and individual LEDs for easier access and management of large lighting installations with several sections. Users can name fixture groups for better organization and ease of programming.

Use the same lighting desk features on a PC Familiar features used in lighting desks such as cues, cue lists, sub-masters, grandmasters, and faders make it easy for experienced programmers and lighting designers to learn e:cue software and use the same features on a PC and on the Lighting Control Engine.

Use the Color Picker for quick color selection Assign color to individual lighting nodes or groups using the Color Picker, a standard feature in all familiar graphic software applications.

Create animations using Wizards Easily generate chasers, dynamic scrolling text, graphic animations, and map video content using software wizards.

* iOS and iTunes are trademark of Apple Inc., registered in the U.S. and other countries. Android and Google Play are trademarks of Google Inc.
Cube Chandelier, Zwolle, The Netherlands
Program time and date triggers Use specific date and time triggers in three calculation modes to start lighting shows based on sunrise, sunset, specific holidays including full support for daylight savings functionality and other time-related triggers.

Customize Glass Touch User Terminals Simply tailor the functionality of the touch sensitive keys and wheels of all Glass Touch User terminals using a visual tool in only a few steps. Export to Butler XT2 for small applications.

Use the Sequencer to compose shows with a visual timeline The Sequencer, as an intuitive timeline sequencing tool, displays video as single frames and audio data as a waveform, and can record manually evoked events.

Complete and easy customization of multiple remote User Interfaces Programmer’s Action Pad tool allows users to create and publish their own fully customized user interface to several platforms including a local PC running e:cue Programmer, a remote PC running any browser with Flash; and wireless mobile devices via free application.

Combine functional and creative lighting Use intelligent DMX512 and DALI lighting control in one application, with a single graphical user interface over mobile devices.

FLEXIBILITY

Control large numbers of DMX512/RDM channels and pixels Design simple to complex lighting shows requiring control of up to 65,536 DMX512/RDM channels up to 25,000 RDM fixtures or control up to 750,000 RGB Pixel with Emotion FX via e:net and Butler DMX512/RDM output devices.

Use scripting language for advanced custom solutions Advanced users can utilize the e:script scripting language, based on familiar programming language concepts, to create special functions for custom solutions and unlimited programming options.

Integrate Input/Output signals for external triggering Allows integration of external control devices through various protocols to initiate various functions in the software.

Use two media players for simultaneous video/audio playback Use two media players to replay and transition between two video files simultaneously.

Realize sound-to-light effects using Audio DSP Create dynamic lighting sequences based on sound from music or other audio source.

Realize projects for a single office or for a complete building If you need only some DMX512 and DALI channels, or an integrated control of DMX512 media walls and DALI functional lighting, the Lighting Application Suite sets no limits.

Lighting Application Suite Editions

Standard Edition Free download at www.traxontechnologies.com/support_and_downloads. This is the most basic edition of the LAS.

Premium Edition (Online Credit Upgrades possible) Two Multimedia Players with full screen playback capability and video, two light mapping features, and an Audio DSP feature enables powerful sound2light effects. Enables users to export light scenes to the e:cue Butler S2 and Butler XT2. Premium also allows integration of one external device such as midi, RS232, or SMPTE timecode, via the device manager and includes one automation trigger and sunrise timer (astronomical clock).

Enterprise Edition (Online Credit Upgrades possible) Contains all functions of the Premium edition, plus integration of up to ten external devices. In this edition, powerful automation trigger features and the sunrise timer (astronomical clock) are enabled, as well as access one Art-Net (Online Credit Upgrades possible) or KiNET universe. Allows Emotion FX editing/ demo mode. Includes 10 automation credit (Online Credit Upgrades possible); users may add additional credits.

LCE-mx Ultimate Edition Pre-installed and available only with the LCE-mx. Allows a maximum of 16 DMX512 universes and enables integration of 99 external devices. Includes one Art-Net universe upgrade, which enables output of Art-Net/ KiNET protocols that are only available with the LCE-mx.

LCE2 Ultimate Edition Pre-installed and available only with the LCE2 series. Enables integration of 99 external devices. Includes one Art-Net universe upgrade, which enables output of Art-Net/KiNET protocols are only available with the LCE2. Art-Net/KiNET upgrades can be expanded in steps of 8, 16, 32, 64 or 128 universes. Simultaneous control of DMX512/ RDM fixtures and Art-Net/ KiNET-driven fixtures. Includes 99 automation credit; users may add additional credits (Online Credit Upgrades possible).

LCE2-fx Ultimate Edition Pre-installed and available only with the LCE2-fx, this edition includes all features of the LCE2 version, in addition to the Emotion FX real-time Video Synthesizer, which allows video and lighting control combined in one machine (Online Credit Upgrades possible).
Binary Sculpture of Manyata Embassy Business Park - Bangalore, India

Visitors are welcomed with an inspiring Binary Sculpture upon arriving Manyata Embassy Business Park (MEBP) near Nagavara Lake in North Bangalore. Home to a vibrant mix of businesses from dynamic startups to global brands, MEBP is one of the largest technology and business parks in India. Created by DPA Lighting Design, the Binary Sculpture is a 4-meter cube structure made of steel with “0” and “1” cut-outs symbolizing the binary numeral system in mathematics and digital electronics. Traxon Dot-XL6 RGB, e:cue Butler S2 and Butler XT2 are installed on the Binary Sculpture to enable colorful illuminations and stunning lighting effects.
System Solution

Butler XT / Butler S2

Network Switch

Lighting Control Engine mx (LCE-mx)

Lighting Application Suite (LAS)

Control

DMX512

Power

LED Engine Smart 100W 15V Outdoor

Mobile Action Pad for iPhone, iPad and Android™

Power
Control Engines & Interfaces Overview

Control Engines & Interfaces ensure smooth, uninterrupted operation of lighting installations. Engines generate, store, and output a wide variety of protocols and signals necessary to orchestrate communication between all devices and fixtures in lighting control systems, while Interfaces are intelligent translators further enabling communications between non-native networks and Traxon & e:cue’s network. Their intelligence and modularity are the best solution for any category or scale.

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting Control Engine 2</td>
<td>76</td>
</tr>
<tr>
<td>Lighting Control Engine 2 fx</td>
<td>76</td>
</tr>
<tr>
<td>Lighting Control Engine mx</td>
<td>78</td>
</tr>
<tr>
<td>Butler S2, Butler S2 Garage</td>
<td>80</td>
</tr>
<tr>
<td>Butler XT2, Butler XT2 Garage</td>
<td>82</td>
</tr>
<tr>
<td>Butler PRO</td>
<td>84</td>
</tr>
<tr>
<td>Video Micro Converter (VMC), VMC Garage</td>
<td>86</td>
</tr>
<tr>
<td>DMX2CC 6CH / DMX2CC 12CH</td>
<td>88</td>
</tr>
<tr>
<td>DMX2PWM 3CH / DMX2PWM 9CH</td>
<td>88</td>
</tr>
<tr>
<td>ETH2DALI</td>
<td>89</td>
</tr>
<tr>
<td>EIB/KNX Gateway</td>
<td>90</td>
</tr>
<tr>
<td>e:bus Input Module</td>
<td>91</td>
</tr>
<tr>
<td>Moxa ioLogic</td>
<td>91</td>
</tr>
<tr>
<td>LED Engine Smart 100W 24V Indoor</td>
<td>92</td>
</tr>
<tr>
<td>LED Engine Smart 150W 24V Outdoor</td>
<td>92</td>
</tr>
<tr>
<td>LED Engine 150W 15V Outdoor</td>
<td>92</td>
</tr>
<tr>
<td>LED Engine 240W 48V Outdoor</td>
<td>92</td>
</tr>
<tr>
<td>LED Engine 1kW 48V Indoor</td>
<td>92</td>
</tr>
<tr>
<td>System Solution</td>
<td>94</td>
</tr>
</tbody>
</table>
UNIQLO Shinsaibashi Flagship Store, Osaka, Japan | Szczecin Philharmonic, Szczecin, Poland | AURA Event Hall, Zurich, Switzerland
Lighting Control Engine 2

Lighting Control Engine 2 fx

Lighting Control Engine 2 (LCE2)

Designed to control large and complex projects, the Lighting Control Engine 2 (LCE2) is a high performance server with the Lighting Application Suite (LAS) software pre-installed. A central control unit, this versatile server guarantees uninterrupted operation as it orchestrates all devices and fixtures within a project. With integrated DMX512/RDM inputs or outputs, dry contacts, two SPDT relay outputs, the ability to output various Ethernet-based protocols, and the capability to integrate various audio/video, external triggering, RS232, SMPTE-Timecode and other desired devices and content, the LCE2 is the ideal solution for the most demanding projects. Shows and lighting scenes can be controlled remotely via mobile devices or with browser access via the built-in web server. A built-in status display on the front communicates messages while built-in cursor keys enable system control directly from the unit. The LCE2 can be mounted in a 19” rack.

Lighting Control Engine 2 fx (LCE2-fx)

Similar to the Lighting Control Engine 2 (LCE2) but with dynamic real-time video capabilities and extended software tools, the elite Lighting Control Engine 2 fx (LCE2-fx) is a high-performance server with the Lighting Application Suite (LAS) software and the Emotion FX Video Software pre-installed. Emotion FX software supports video mixing and advanced video functionality. With added hardware capacity to control modern mixed media installation, LED matrix applications, and conventional DMX512 lighting such as moving lights, LCE2-fx is the ultimate solution for the most demanding projects. Shows and lighting scenes can be controlled remotely via mobile devices or with browser access via the built-in web server. A built-in status display on the front of the unit communicates messages while built-in cursor keys enable system control directly from the unit. The LCE2-fx can be mounted in a 19” rack and comes with a DVI/HDMI video capture card.

### Technical Specifications & Options

<table>
<thead>
<tr>
<th>LCE2</th>
<th>LCE2-fx</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>W x H x D:</strong></td>
<td>491 x 176 x 432 mm/19.3 x 6.9 x 17 inch</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>15 kg/33 lbs</td>
</tr>
<tr>
<td><strong>Input Voltage:</strong></td>
<td>100 – 240 V AC, 50/60 Hz</td>
</tr>
<tr>
<td><strong>System Link:</strong></td>
<td>2 x e:net (Ethernet, RJ-45)</td>
</tr>
<tr>
<td><strong>Storage:</strong></td>
<td>SSD</td>
</tr>
<tr>
<td><strong>Interfaces:</strong></td>
<td>1 x DVI-D Out, 1 x VGA Out, 2 x DMX512/RDM RJ45 Ports (In/Out), 2 x RS-232 (DSub), 6 x input dry contacts, 2x SPDT Relay outputs 24V, 3A max.</td>
</tr>
<tr>
<td><strong>Mounting:</strong></td>
<td>Desktop operation, Mounting in 19” rack</td>
</tr>
</tbody>
</table>

Control up to 65,536 DMX512 channels with RDM for bidirectional communication or via Art-Net and KiNet (LCE2)

Scalable to run up to 750,000 e:pix or DMX512 RGB Pixel with 25,000 RDM systems via Emotion FX (LCE2-fx)

Equipped with e:cue’s Lighting Application Suite (both) and exclusive Emotion FX software (LCE2-fx only)

Pre-installed media content package and the ability to synchronize sound-to-light sequences

DVI video input (LCE2-fx)

Orchestrates a wide range of fixtures, devices, technologies and media with reliable, uninterrupted operation

Outputs a variety of Ethernet-based protocols

Numerous triggering options

Integrated status display for user control and monitoring and two drive bays accessible from front (One 2.5-inch SSD drive is included; second bay allows future extensions)

Easily mountable in standard 19-inch control rack
EUMETSAT, Darmstadt, Germany | T.C. Ziraat Bank Headquarters, Ankara, Turkey | Siemens Headquarters’ Car Park, Zug, Switzerland
Lighting Control Engine mx

The Lighting Control Engine mx (LCE-mx) is a compact and versatile, DIN rail mountable control server with the e:cue software suite installed. It is the optimum solution for smaller to medium configurations to control devices and fixtures within a project. Designed and build for reliability and robustness in industrial environments the LCE-mx comes without any moving or rotating components, an accessible CompactFlash card servers as data exchange for shows or user data. The small form factor allows din rail mounting on walls or in rack systems, external devices are connected via USB, Ethernet/e:net and other open interfaces. All software features of the Lighting Application Suite are included, including automation, control of 16 DMX512 universes, and Art-Net/KiNet support.

- Controls up to 8,192 DMX512 channels
- Equipped with e:cue’s Lighting Application Suite
- High quality components for reliable uninterrupted operation
- Certified for industrial use
- Fanless operation, SSD drive, no moving or rotating parts
- Support for a variety of Ethernet-based protocols
- Numerous triggering options
- Easily mountable on DIN rail or on walls
- USB, RS-232 and DVI interfaces, 2 x e:net/Ethernet (RJ45)
- Headless operation without keyboard and display
- Shows and lighting scenes can be controlled remotely via mobile devices or with browser access via the built-in web server

Technical Specifications & Options

**LCE-mx**

W x H x D:

10.3 x 5.3 x 1.9 inch (housing)

10.3 x 5.3 x 2 inch (incl. rail adapter)

Weight: 2 kg

Power supply: external 24 V DC; 19.2 ... 28.8 V DC

Housing: Steel, aluminum

Mounting on 35 mm DIN rail, wall mounting (flat, portrait), Mounting in 19" rack

User interface:

System connection ports 2 x e:net (RJ45 Ethernet), 1 x RS-232, 4 x USB2

Data storage SSD 1 x DVI-D output
Butler S2
Butler S2 Garage

Butler S2
The Butler S2 is a simple yet powerful RDM-capable DMX512 output device, and is the simplest way to communicate via DMX512 and RDM. Ideal for storing and replaying lighting shows in small to medium standalone projects, the Butler S2 can also serve large lighting systems, adding two DMX512 universes when paired with the Lighting Application Suite (LAS).

The compact control engine is cost efficient and can store up to 99 pre-programmed cuelists and play back up to eight cuelists—in parallel—in standalone mode. It is intended for use with the Butler XT2 and can also be used in cluster mode with additional control engines for output of up to 32 DMX512 universes in standalone mode, or up to 65,536 DMX512 channels in 128 universes when paired with the Lighting Application Suite (LAS). As a network-enabled device, the Butler S2 has a built-in web server for easy set up. Equipped with an integrated SD card, the engine can replay previously stored cuelists in case of a loss of Ethernet connection, making it a fail-safe solution for scalable lighting control.

- Supports RDM protocol for bidirectional communication
- Integrated web server for easy setup
- Store and replay pre-programmed cuelists
- Scalable up to 64 devices (128 DMX512 universes) if connected to e:cue control software; scalable up to 16 devices (52 universes) in standalone mode
- Reliable uninterrupted operation

Butler S2 Garage
The Butler S2 Garage is used to house and power up to 12 Butler S2s for neat arrangement and wiring. It is designed to be wall or ceiling mounted, or installed on a 19” rack. The Butler S2 Garage also includes a detachable front panel and plates which cover unused mounting slots and protect it from dust and dirt.
Lightscape: A Multisensory Experience on State Street, Chicago, Illinois | Pulse Bamboo Pavilion, Macau, China | Bülow Canné, Stuttgart, Germany
Butler XT2

Butler XT2 Garage

**Butler XT2**

Similar to the Butler S2 but with more connectivity options, the Butler XT2 is a DMX512/RDM engine that can be used in standalone mode to replay and standalone features previously uploaded lighting shows, programmed using with the e:cue software suite. The Butler XT2 allows control and playback of up to eight independently controlled zones in standalone mode. This Engine has many connectivity options used to control the lighting show running on the device including direct connection to Glass Touch User Terminals, RS-232, digital dry contact inputs, and e:cue protocols. It can be controlled using a custom graphical user interface in conjunction with a web browser or via free apps designed for iOS and Android™ devices over a wireless connection*.

- Up to eight independently controlled zones in standalone mode
- Control up to 1024 DMX512/RDM channels
- Supports RDM protocol for bidirectional communication
- Internal real-time and astronomical clock with daylight savings options
- Easily upload lighting show files via Ethernet
- Scalable up to 64 devices (128 DMX512 universes) if connected to e:cue control software; scalable up to 16 devices (32 universes) in standalone mode
- Integrated webservice, remote control of lighting shows via web browser or iOS-systems*, Android Systems*

**Butler XT2 Garage**

The Butler XT2 Garage is a 19" rackmounting solution for the successful e:cue Butler XT2 live and replay unit. The Garage comes with a slot-in system and carries up to two Butler XT2 units (four DMX universes). Frontside access to the Butler display allows viewing status information.

---

**Technical Specifications & Options**

**Butler XT2**

- **W x H x D:** 177 x 60 x 75 mm / 7 x 2.4 x 3 inch
- **Weight:** 0.4 kg / 0.88 lbs
- **Power:** 12-24V DC
- **RS-232 (clamp terminals)**
- **Dry Contacts (clamp terminals)**
- **System Link:** e:net (RJ45), e:bus (clamp terminals)
- **Output:** 2x DMX512 (RJ45, clamp terminals)
- **Mounting:** Optional mounting in 19" Butler Garage, DIN Rail Mounting

---

* iOS and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries. Android and Google Play are trademarks of Google Inc.
The Butler PRO is an e:net to DMX512/RDM output (DMX512/RDM Version) or an e:net to e:pix output (e:pix Version) engine that interfaces seamlessly with the Lighting Application Suite (LAS). Butler PRO is connected to a server via Ethernet. The engine can be mounted in a standard 19-inch rack and accommodates wall mounting via rotatable 19-inch mounting brackets. The Butler PRO DMX512/RDM Version is the optimal choice for running a large number of DMX512 universes—up to 16 DMX512/RDM universes (8,192 channels) —with full RDM (Remote Device Management) capability for bidirectional communication, while the Butler PRO e:pix Version is running up to 16 e:pix universes (32,768 channels).

- Easily mountable in a standard 19-inch rack and accommodates wall mounting via rotatable 19-inch mounting brackets
- Status display and cursor keys for offline configuration
- Stored backup image in case of e:net signal loss
- Versatile test mode
- Supports RDM protocol for bidirectional communication (DMX512/RDM version only)
- Controls up to 8,192 DMX512/RDM channels in 16 DMX512/RDM universes (DMX512/RDM version)
- Controls up to 32,768 e:pix channels in 16 e:pix universes (e:pix version)
- Scalable to run up to 65,536 DMX512/RDM channels via the Lighting Application Suite
- Scalable to run up to 750,000 RGB Pixel with 25,000 RDM systems via Emotion FX

Butler PRO Technical Specifications & Options

W x H x D: 482 x 44 x 142 mm/ 19 x 1.7 x 5.6 inch

Weight: 1.2 kg / 2.64 lbs

Input Voltage: 100 - 240V AC 50 / 60 Hz

System Link: 1 x Ethernet for LAS communication e:net (RJ45)

Output: DMX / RDM version 16x DMX512 (RJ45)
e:pix version 16 x e:pix (RJ45)

Mounting: mounting in 19" rack or wall mounting

For more technical information please refer to page 109.
Video Micro Converter (VMC)  
VMC Garage

**VMC**
The Video Micro Converter (VMC) is a compact device used to convert a DVI signal to DMX512 or e:pix for LED control of large media installations. Specially designed to easily output video content on LED media installations, one VMC grabs up to 4096 pixels from a video source. For video lighting installations requiring more than 4096 pixels, multiple VMCs can be daisy-chained to convert the entire video via DVI signal. The VMC features very flexible pixel mapping capabilities for demanding LED installations ranging from a few hundred to a million pixels. There are two available versions of this device; VMC outputs DMX512 and e:pix, while the VMC DMX512 outputs only DMX512.

- Simple video-to-LED solution
- Supports DVI input resolutions up to 1080p (1920 x 1080 pixels)
- Highly versatile pixel mapping capabilities
- Configurable DMX512 monochrome or color channel mapping
- Grabs and converts up to 4096 DVI pixels per VMC
- Internal active DVI signal booster
- Configurable startup delay
- Stored default image in case of video input loss
- Arrange lighting fixture and set up VMCs using the e:cue software suite

**VMC Garage**
The VMC Garage is a 19” rackmounting solution for the successful Video Micro Converter (VMC) unit. The VMC Garage comes with a slot-in system and a built-in multirange power supply for up to three VMC units (giving up to 3 x 4096 pixels resolution). The windows on the frontside provide access to the VMC displays and the frontside RJ45 connectors of the VMCS.
DMX2CC 6CH, DMX2CC 12CH

Available in six-channel and twelve-channel versions, the DMX2CC enables DMX512 control of high power LEDs (1W and 3W) using a constant current dimming method, ensuring flicker-free and smooth dimming especially for environments such as television studios. The DMX512 out port repeats and amplifies the DMX512 signal for convenient daisy-chaining. Additionally, a self-diagnostic test function prevents damage to the unit and LEDs caused by incorrect wiring, open or short circuit, and overheating, and is able to maintain lighting levels in times of DMX512 data and signal loss. DMX2CC is easily set up with auto and manual DMX512 addressing modes, and conveniently mountable inside equipment racks using standardized 35mm wide DIN rail.

- Smooth, flicker-free dimming of constant current fixtures
- Pre-selectable LED current between 50mA to 700mA
- DMX512 in/out with auto/manual addressing options
- Self-diagnostic test function, overheating protection and overcurrent protection
- Status message display and keys for configuration and setup
- High efficiency (up to 95%)

**Technical Specifications & Options**

| W x H x D: | DMX2CC 6CH | 142 x 75.4 x 24 mm / 5.59 x 2.97 x 0.94 inch |
| DMX2CC 12CH | 272 x 75.4 x 24 mm / 10.71 x 2.97 x 0.94 inch |

Weight:
- DMX2CC 6CH: 0.41 kg / 0.91 lbs
- DMX2CC 12CH: 0.75 kg / 1.65 lbs

PSU not included, select appropriate PSU according to the load.

Input: DMX512 (RJ45)

Output: 6 or 12 output channels (screw terminals) DMX512 (RJ45) to daisy chain multiple devices

Mounting: 35 mm-DIN Rail Mounting

DMX2PWM 3CH, DMX2PWM 9CH

DMX2PWM Dimmers enable control of low-voltage LEDs using a DMX512 controller. Using PWM (Pulse-Width Modulation) technique, they are designed for use with constant voltage LEDs with a maximum output current of 2A per channel, or 2.5A for the three-channel version. DMX512 signal is amplified through DMX2PWM Dimmers for convenient daisy-chaining. DMX2PWM Dimmers’ flexibility makes installations easy with auto and manual DMX512 addressing modes, and in the case of the nine-channel version, the option of using an RJ45 connector or loose wire for DMX512 connection. The reverse supply protection and self-resetting over-current protection ensure safety against possible damage due to incorrect wiring. The nine-channel version is conveniently mountable inside equipment racks using standard 35mm wide DIN rail.

- Control of constant voltage LED fixtures
- Three or nine individually-controllable output channels via DMX512
- Reverse supply protection and overcurrent protection (self-resetting)
- Smooth dimming via PWM with 488 Hz frequency
- Manual address setting or auto-addressing selectable
- Input voltage range: 12-48 VDC
- 14bit PWM resolution calculated from 8bit DMX value

**Technical Specifications & Options**

| W x H x D: | DMX2PWM 3CH | 94 x 71.5 x 24 mm / 3.66 x 2.81 x 0.94 inch |
| DMX2PWM 9CH | 107 x 76 x 59 mm / 4.21 x 2.99 x 2.32 inch |

Weight:
- DMX2PWM 3CH: 0.08 kg / 0.176 lbs
- DMX2PWM 9CH: 0.25 kg / 0.55 lbs

PSU not included, select appropriate PSU according to the load.

Input: DMX512 (RJ45)

Output: 3 or 9 output channels (screw terminals) DMX512 (RJ45) for chaining multiple devices

DMX2PWM 3CH, DMX2PWM 9CH
ETH2DALI

The ETH2DALI is an e:cue DALI Engine / Interface for combining functional and dynamic lighting in a single device. Equipped with 2 DALI universes the ETH2DALI is able to control up to 128 DALI devices, such as ballasts or daylight/PIR sensors. The integrated web server enables the user to configure the device via web interface and control the installation using a mobile device with a unique and customizable User Interface. ETH2DALI is a versatile, scalable device combining the control for DALI and DMX fixtures with powerful standalone and online features.

- 2 DALI universes to control up to 128 DALI devices
- 1 DMX512 universe (additional DMX512 Universes can be added via Butler S2 devices over network)
- RS232 and dry contacts for triggering from external systems
- Relay outputs
- Supports online & standalone mode
- Status display
- Easy Commissioning Test mode
- Integrated web server for easy network configuration and remote control of lighting shows via web browser or iOS-systems*, Android Systems*
- Internal real-time and astronomical clock with daylight saving
- Data stored on micro SD Card

---

* iOS and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries. Android and Google Play are trademarks of Google Inc.
EIB/KNX Gateway

Universal EIB/KNX-gateway for the integration of EIB sensors and systems into the e:cue e:net network. The gateway is forwarding messages from the EIB/KNX system like e.g. wind, rain, and touch sensor applications, using the e:net protocol for integration into the e:cue system. This technological combination unites the best of both worlds: EIB/KNX as a stable and widespread building automation system for an expansive range of applications and e:cue’s lighting control system for controlling large numbers of dynamic DMX channels and fixtures using the e:net protocol.

- Allows integration of EIB/KNX sensors and actors into the e:cue system
e:bus Input Module

Moxa ioLogic

e:bus Input Module allows integration of four standard switches and a motion sensor and other dry contacts, into the e:bus system. An embedded Locator LED allows identification of modules with the e:cue software suite, and power and data are supplied via e:bus, reducing installation costs. e:bus Input Module is compact and can be installed in standard in-wall fittings.

Moxa ioLogic

Moxa ioLogic Interfaces allow integration of standard switches, such as motion sensors and other dry contacts, into the e:net system. Moxa ioLogic E2210 features 12 digital inputs with photo cell sensors and eight digital outputs for integration of external switches, the Moxa ioLogic E2240 features eight analog inputs and two analog outputs for integration of analog sources elements into the e:net system.
CONTROL ENGINES AND INTERFACES

LED Engine Smart 100W Indoor
LED Engine Smart 150W 24V Outdoor
LED Engine 150W 15V Outdoor
LED Engine 240W 48V Outdoor
LED Engine 1kW 48V Indoor

LED Engine Smart 100W 24V Indoor
LED Engine Smart 100W 24V is a universal AC input Power Supply Unit (PSU) designed to power Traxon’s TX CONNECT® cabling systems, including Panels, Modules, Boards, Cove Light and Strips. Fitted with a TX CONNECT® connector, it completes the Plug’n’Play TX CONNECT® system. The fanless LED power supply ensures silent operation and is built to maintain reliability in interior environments.

LED Engine Smart 150W 24V Outdoor
LED Engine Smart 150W 24V is a universal AC input Power Supply Unit (PSU) designed to power Traxon’s Mesh and String units. The slim profile, fanless power supply is built to maintain high reliability in interior environments, and is fitted with TX CONNECT® connectors. LED Engine Smart 150W 24V Outdoor can extend to outdoor applications due to its IP67 rating.

LED Engine 150W 15V Outdoor
A universal AC input Power Supply Unit (PSU) with a 15-volt output, this slim profile, fanless power supply is built to maintain high reliability in exterior environments. LED Engine 150W 15V is equipped with an outdoor-ready connector and is designed specifically to power the Dot XL system. Additional features include over-current, voltage, and temperature protection.
LED Engine 240W 48V Outdoor
LED Engine 240W 48V Outdoor is a universal AC input Power Supply Unit (PSU) designed to power Traxon's Media Tube Series. With its slim profile, the fanless outdoor power supply is built to maintain high reliability in exterior environments. Additional features include over-current, voltage, and temperature protection.

LED Engine 1kW 48V Indoor
LED Engine 1kW 48V Indoor is a universal AC input Power Supply Unit (PSU) designed to power Traxon's IMAGIC WEAVE® & Media Tube Series. The indoor power supply ensures long cabling distances for façade applications and can be housed in a standard 1U 19” rack housing. LED Engine 1kW 48V Garage houses up to three units.
India’s leading news network, TV Today Network, recently integrated a dynamic lighting solution into studios and atriums throughout the network’s new TV building in Delhi. The lighting scheme is flexible enough to be fitted for individual studio sets while retaining brand continuity for the complex as a whole. Selected for its wide range of installation possibilities, Traxon’s 1PIXL Strip RGB was seamlessly concealed behind backdrops, lending saturated backlighting to the studio. Paired with a Lighting Control Engine 2 (LCE2) and Butler XT2, the system allows the entire set to be bathed in precise color schemes for variable on-camera looks. e:cue’s advanced control system also provides flexibility to interconnect with the third party front-lighting system. A DMX2PWM 3CH Dimmer with customized firmware makes it possible to match the dimming frequency of the white backlighting to that of the studio camera. The result is optimum lighting performance that gives the channels distinct yet cohesive personality.
System Solution

1PXL Strip RGB

OSRAM LINEARlight FlexLED

DMX2PWM 3CH Dimmer

Butler XT2

e:net

Ethernet Switch

Lighting Control Engine 2 (LCE2)

1 For more information on OSRAM LINEARlight FlexLED, please visit www.osram.com
User Terminals Overview

User Terminals bring personal lighting control to one's fingertips. Sharply intuitive, pleasing to the eye, and triggered by touch, User Terminals and mobile device lighting control applications offer a wide range of functions from simple to complex, with programmable selection features, Plug’n’Play, standalone DMX512 output capabilities, and customizable buttons. User Terminals combine intelligent, articulate control and sleek design into one sophisticated, fully customizable unit or application.

<table>
<thead>
<tr>
<th>Glass Touch Series</th>
<th>98</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action Pad Apps</td>
<td>98</td>
</tr>
<tr>
<td>Light-Drive Elite</td>
<td>100</td>
</tr>
<tr>
<td>System Solution</td>
<td>102</td>
</tr>
</tbody>
</table>
Glass Touch T12/T6R/T6

Glass Touches are a series of User Terminals featuring a sleek design with a glass surface as well as touch-sensitive keys and wheel for user interaction. Designed to work with the Butler XT2 via the e:bus protocol, the Glass Touch keys and wheel are easily customized using the e:cue software to perform any function according to project requirements. Pleasing to the eye, these devices are the perfect solution for user interaction and control in high-end lighting applications such as hospitality, architectural, healthcare, residential, and other projects. Glass Touches are wall mountable, and up to eight units can be connected to a single Butler XT2 for flexible installation.

- Sleek glass surface with modern, elegant design
- Touch-sensitive keys and wheel
- Only two wires for power and data (e:bus)
- Easy set up and individual programming options
- Wall mountable, Compatible to standard in-wall fittings

**Technical Specifications & Options**

<table>
<thead>
<tr>
<th>W x H x D:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass Touch T6</strong></td>
</tr>
<tr>
<td>80 x 80 x 11 mm / 3.15 x 3.15 x 0.43 inch</td>
</tr>
<tr>
<td><strong>Glass Touch T6R &amp; T12</strong></td>
</tr>
<tr>
<td>80 x 160 x 11 mm / 3.15 x 6.3 x 0.43 inch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass Touch T6</strong></td>
</tr>
<tr>
<td>0.11 kg / 0.23 lbs</td>
</tr>
<tr>
<td><strong>Glass Touch T6R, T12</strong></td>
</tr>
<tr>
<td>0.21 kg / 0.46 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Input:</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VDC, 18 mA (via e:bus)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Link:</th>
</tr>
</thead>
<tbody>
<tr>
<td>e:bus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR control</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting:</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-wall mounting</td>
</tr>
</tbody>
</table>

**Action Pad Apps**

- For use with any wireless iOS or Android™ device*
- Allows seamless access to the customizable graphics user interface (GUI) and its Action Pad features (stored inside the Butler XT2 for standalone mode)
- User-friendly, free download
- Updated version, with various new features and graphical enhancements, will be available end 2014

* iOS and iTunes are trademark of Apple Inc., registered in the U.S. and other countries. Android and Google Play are trademarks of Google Inc.
Light-Drive Elite
IF Design
IF Product Design Award 2010
2010

Light-Drive Elite
LFI Innovation Awards
Design Excellence
2010

Light-Drive Elite
2010 IDEX/NeoCon Canada Innovation Awards
Lighting Controls - Silver
2010

Cirque du Soleil, Las Vegas, USA | Saint Thomas A’ Becket Church, Jefferson Hills, PA, USA | Harpa Concert Hall, Reykjavik, Iceland
Light-Drive Elite

Light-Drive Elite is a wall-mounted standalone DMX512 controller and interactive user interface for dynamic lighting. End-users can easily setup color-changing effects and control lighting directly using the device. The user interface features touch-sensitive keys and wheel with color LEDs for intuitive selection of colors and adjustment of intensity and speed. Memory function allows end-users to define four colors for color-changing effects. It can be easily connected to LED RGB fixtures through an RJ45 connection for power and data. Light-Drive Elite’s glassy finish is designed for an elegant appearance as well as easy maintenance.

- User-friendly standalone DMX512 controller
- Sleek glass surface with modern, elegant design
- Touch-sensitive keys and wheel
- Simple set up, No software needed
- Wall mountable
- 512 channels DMX output (RGB)
- Four user-defined memory slots
- Integrated IR receiver for remote control optional
- Four mode keys to select intensity, color, white and memory mode
- Color chase on up to 12 RGB fixtures / light-points with spread effect

Technical Specifications & Options

<table>
<thead>
<tr>
<th>W x H x D:</th>
<th>160 x 80 x 11 mm / 6.3 x 3.15 x 0.43 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight:</td>
<td>0.3 kg / 0.66 lbs</td>
</tr>
<tr>
<td>Cable:</td>
<td>24V DC, 100mA, via RJ45</td>
</tr>
<tr>
<td>Output:</td>
<td>DMX512 ch. (RJ45)</td>
</tr>
<tr>
<td>Control:</td>
<td>IR control</td>
</tr>
<tr>
<td>Mounting:</td>
<td>In-wall mounting</td>
</tr>
</tbody>
</table>


Located on Fifth Avenue in midtown Manhattan, the entrance of 650 Fifth Avenue dazzles passerby and visitors with dynamic lighting. The highly visible luminous ceiling has a slow-moving, color-changing effect, which is automated to play 24 hours a day, 7 days a week. Easily adaptable to a variety of irregular surfaces, Traxon Dot XL-9 was installed in the ceiling and façade behind a fire-resistant 3Form diffusing material. The ceiling and façade are controlled by the Lighting Control Engine, Butler S2, Butler XT2 and a Glass Touch T12, and feature two shows – one for daytime and one for nighttime. The result is an art installation that draws the attention of all who come to 650 Fifth Avenue.
System Solution

Dot XL-9

DMX512

Butler S2
- ETHERNET
- Network Switch
- Ethernet

Butler XT2
- e:bus
- LED Engine Smart 150W 15V Outdoor

Lighting Control Engine 2 (LCE2)

Glass Touch T12

Power
Traxon & e:cue transforms creative visions into unforgettable lighting experiences, elevating environments around the world. We believe that the phrase “complete solutions” encompasses more than just a product portfolio; the solution starts with the first creative spark. Our team of outstanding professionals, together with our global partner network, will guide you through each project phase. From creative ideas and selecting the best system to communicate your vision, to post-installation communication, our worldwide project management, planning, and support services, are yours throughout the process. The age of digital lighting is here; you can be part of the revolution. We invite you to partner with us for your next dynamic lighting project.
### PRODUCT SUMMARY

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Color Temperature</th>
<th>Beam Angle</th>
<th>Dimensions</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ILLUMINATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washer Allegro AC XB</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>9&quot; x 9&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>Wall Washer Shield AC XB</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1', 4'</td>
<td>Indoor</td>
</tr>
<tr>
<td>Shield AC Extend</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1'</td>
<td>Indoor</td>
</tr>
<tr>
<td><strong>AMBIANCE &amp; ACCENT</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cove Light AC HD / HD Graze</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1'</td>
<td>Indoor</td>
</tr>
<tr>
<td>Cove Light AC Dim</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1'</td>
<td>Indoor</td>
</tr>
<tr>
<td>Cove Light AC HE</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1'</td>
<td>Indoor</td>
</tr>
<tr>
<td>1PXL Cove Light XR</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1'</td>
<td>Indoor</td>
</tr>
<tr>
<td>1PXL Strip</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>11'</td>
<td>Indoor</td>
</tr>
<tr>
<td>1PXL Board</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>9&quot; x 9&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>4PXL Add-on Board &amp; Strip</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>Strip 9&quot; x 2&quot; Board 4&quot; x 4&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>16PXL Board RGB</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>20&quot; x 20&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>Monochrome Tube</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>---</td>
<td>Indoor</td>
</tr>
<tr>
<td><strong>MEDIA &amp; FAÇADE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mesh</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>62.5mm pitch</td>
<td>Indoor</td>
</tr>
<tr>
<td>String</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>62.5mm pitch</td>
<td>Indoor</td>
</tr>
<tr>
<td>Dot XL</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>Dot XL-3: 150mm pitch Dot XL-6: 300mm pitch</td>
<td>Indoor</td>
</tr>
<tr>
<td>Media Tube®</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>12&quot;, 20&quot;, 39&quot;, 59&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>64PXL Board</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>9&quot; x 9&quot;</td>
<td>Indoor</td>
</tr>
<tr>
<td>IMAGIC WEAVE®</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>1 sq ft - 1,000 sq ft</td>
<td>Indoor</td>
</tr>
<tr>
<td>Façade Panel</td>
<td>3000K, 4000K, 5000K</td>
<td>10°, 20°, 40°, 60°</td>
<td>24&quot;-34&quot;, 35&quot;-45&quot;, 47&quot;-55&quot;</td>
<td>Indoor</td>
</tr>
</tbody>
</table>

*Please refer to QuickShip Guide on www.traxontechnologies.com for product eligibility.*
Appendix

Glossary 107
Butler PRO Application Scenario 109
Awards 110
Project Credits 111
Contact 114
Imprint 118
AC (Alternating Current)
Bi-directional electric charge.

Art-Net™
A proprietary protocol developed by Artistic License.

Audio DSP (Digital Sound Processing)
Representation of audio signals to digital signals for processing. Sound to Light.

CCT (Correlated Color Temperature)
The value, in degrees Kelvin, which most closely matches that of a point on the Planckian locus or black body radiator curve, emitted by an ideal black body radiator. The CCT occurs above or below the Planckian locus, the distance from which is represented by $\Delta U^v$. CCT is produced by sources which generate light via emission methods other than incandescence, such as passing an electric arc through a gaseous discharge, (fluorescent, HID), or using semi conductors, (LED).

Color Temperature
A point on the Planckian locus, measured in degrees Kelvin, which represents the heating of an ideal black body radiator to the point of incandescence. Only filament based sources which use incandescence as their light emission method have a color temperature. White light that is perceived as cool generally falls on the Planckian locus between 5000 K and 6500 K, white light that appears neutral falls generally between 3500 K and 5000 K, and white light perceived as warm generally falls between 2700 K and 3500 K.

Contrast Ratio
The ratio of the luminance of the brightest color (white) to that of the darkest color (black) that the system is capable of producing.

Cue
One static lighting scene saved in the e:cue Lighting Application Suite software. This concept is based on professional lighting control consoles.

Cuelist
A set of consecutive cues forming one dynamic lighting sequence.

DALI (Digital Addressable Lighting Interface)
A digital protocol used in lighting control, typically for electrical ballasts and dimmers, and commonly used to control fluorescent lighting.

DC (Direct Current)
Electric charge that flows in one constant direction.

Daisy-chain
A topology in which multiple devices are connected, one after another, in sequence.

Digital dry contact inputs
Digital input used to integrate external devices, such as occupancy and motion sensors, various buttons, regular light switches, and other building control devices. Also known as “dry contact closures”, or simply “dry contacts”.

Dynamic White
A mixture of warm white and cold white LED nodes, which allows the user to tune various CCTs from warm to cold.

e:bus
A special e:cue protocol used to communicate between the Glass Touch Series and the Butler XT2, for system integration. The e:bus protocol functions using only two wires for power and data using any network topology.

e:net
An Ethernet-based e:cue protocol used as the backbone communication standard between most e:cue Engines and Interfaces.

e:pix
An e:cue protocol similar to DMX512, for faster communication between the VMC and Traxon Technologies e:pix-capable LED media products. Can handle more control channels as DMX512.

DMX512 (Digital Multiplex)
A standard communication protocol originally used in stage lighting, and increasing in use in architectural lighting, for communication between controllers and lighting fixtures.

DMX512 Universe
A data link transmitting 512 DMX512 channels.

DSI (Digital Signal Interface)
A protocol used for lighting control in buildings.

e:bus
Glossary

EIB (European Installation Bus)/KNX

EIB, presently succeeded by KNX, is a standard communication protocol for building automation.

Efficacy

The ratio of the luminous flux of a light source to the power required to produce that flux. Efficacy is expressed in lumens per Watt (lm/W).

IP Rating (Ingress Protection Rating)

A classification of the degree of protection provided against the intrusion of solid objects such as dust, accidental contact, and water into electrical enclosures. The rating consists of the letters “IP” followed by two digits and an optional letter.

KiNET™

A proprietary protocol developed by Color Kinetics.

Luminous Flux

The measure of the perceived power of light, if reflects the varying sensitivity of the human eye to varying wavelengths of light.

MIDI (Musical Instrument Digital Interface)

A standard protocol that enables electronic musical instruments, computers and other electronic equipment to communicate and synchronize with each other.

Pitch

The distance between the center of two adjacent pixels in an array.

PoE (Power over Ethernet)

Power over Ethernet (PoE) technology describes a system to safely pass limited electrical power, along with data, on Ethernet cabling (cat5 or higher). Power can come from a power supply within a PoE-enabled networking device such as an Ethernet switch or from a device built for “injecting” power onto the Ethernet cabling.

PWM (Pulse Width Modulation)

A dimming technique made possible through constant voltage and turning the LEDs on and off at varying high frequencies, at which the human eye cannot detect any flickering.

RDM (Remote Device Management)

A protocol based on DMX512-A with bi-directional communication capability between a lighting controller and RDM-capable lighting fixtures or devices.

Resolution

The measurement of the total number of pixels within the display area.

RS232

A standard for communication between devices in a control system, which allows interfacing with various competitor-controlled devices, as well as residential and building automation systems.

Smart Chip

An auto-addressing system available in Traxon Modules, Boards, Coves, and Strips.

SUITABLE FOR COASTAL ENVIRONMENT

Coastal locations present particular challenges for specifiers, designers or owners when choosing suitable lighting solutions due to the amount of airborne salt and humidity that a coastal property is subjected to, as these act as catalysts to oxidation and rust.

Traxon Nano Liner Allegro AC XB, Monochrome Tube, Media Tube, and Wall Washer Shield AC XB are proven suitable for coastal environments. These weather-proof lighting solutions underwent vigorous assessments including 200 hours salt spray tests and 168 hours high temperature/high humidity tests to verify their resiliency to corrosive sea air. These luminaires are suitable for use in coastal environments and have 3 or 5 years functional warranty.

TX CONNECT®

A simple connection system, that combines power and data into a single cable in many Traxon fixtures.
Butler PRO Application Scenario

Setup Diagram DMX512/RDM

- Show Programming
  - Emotion FX / LAS
- Ethernet
- Switch
- RDM Management LAS
- Only applicable for projects with more than 25,000 RDM fixtures

<table>
<thead>
<tr>
<th>Show Creation</th>
<th>Signal Distribution</th>
<th>Ethernet (e:net) to DMX512/RDM Gateway</th>
<th>DMX512/RDM fixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDM Message Handling</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Up to 750,000 DMX512/RGB Pixel

Setup Diagram e:pix

- Show Programming
  - Emotion FX
- Ethernet
- Switch

<table>
<thead>
<tr>
<th>Show Creation</th>
<th>Signal Distribution</th>
<th>Ethernet (e:net) to e:pix Gateway</th>
<th>e:pix fixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DMX512/RDM</td>
<td>e:pix</td>
</tr>
</tbody>
</table>

Up to 750,000 RGB Pixel
## Awards

<table>
<thead>
<tr>
<th>Product Awards</th>
<th>Project Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>64PXL Mirror Wash RGB</strong></td>
<td><strong>Christ the Redeemer Monument - Rio de Janeiro, Brazil</strong></td>
</tr>
<tr>
<td>Design for Asia Award</td>
<td>Lighting Designer: Peter Gasper</td>
</tr>
<tr>
<td>Best Design - Greater China</td>
<td>Production Innovation Awards (PIA)</td>
</tr>
<tr>
<td>2006</td>
<td>Best Renovation/Retrofit using SSL</td>
</tr>
<tr>
<td>Middle East Lighting Design Awards (MELDA)</td>
<td>2012</td>
</tr>
<tr>
<td>Innovative Product of the Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Butler Pro</strong></td>
<td><strong>Crystal Hall - Baku, Azerbaijan</strong></td>
</tr>
<tr>
<td>IES Progress Report</td>
<td>Lighting Designer: Lichtvision</td>
</tr>
<tr>
<td>Accepted</td>
<td>illumini Infinity Award</td>
</tr>
<tr>
<td>2013</td>
<td>illumini Infinity Awards 'Bronze' for facade lighting 2013 2013</td>
</tr>
<tr>
<td><strong>Cove Light AC Dim</strong></td>
<td><strong>Strand East Tower – London, United Kingdom</strong></td>
</tr>
<tr>
<td>Production Innovation Awards (PIA)</td>
<td>Lighting Designer: Hoare Lea Lighting</td>
</tr>
<tr>
<td>PIA12 - Category: Cove/ Linear/ Wall Wash</td>
<td>Lighting Design Awards 2013</td>
</tr>
<tr>
<td>2012</td>
<td>Lighting Design Awards 2013 - Special Projects 2013</td>
</tr>
<tr>
<td><strong>Cove Light AC HO</strong></td>
<td></td>
</tr>
<tr>
<td>IES Progress Report</td>
<td></td>
</tr>
<tr>
<td>Accepted</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
<tr>
<td><strong>IMAGIC WEAVE ©HO</strong></td>
<td><strong>Flame Towers - Baku, Azerbaijan</strong></td>
</tr>
<tr>
<td>Production Innovation Awards (PIA)</td>
<td>Lighting Designer: Francis Krahe &amp; Associates Inc (Francis Krahe, Le Nguyen)</td>
</tr>
<tr>
<td>PIA13 - Category: Building Enclosure</td>
<td>LIGHTFAIR International 2013 Product Innovation Award - Most Impactful Use of SSL 2013</td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
<tr>
<td><strong>Light-Drive</strong></td>
<td><strong>National Stadium - Warsaw, Poland</strong></td>
</tr>
<tr>
<td>Architektur und Technik</td>
<td>Developer: Narodowe Centrum Sportu Sp.zoo.o.</td>
</tr>
<tr>
<td><em>Architektur und Technik,</em> award</td>
<td>Lighting Designer: Lichtvision</td>
</tr>
<tr>
<td>2008</td>
<td>CEEQA</td>
</tr>
<tr>
<td></td>
<td>Hotel, Leisure &amp; Residential Development of the Year Building of the Year</td>
</tr>
<tr>
<td></td>
<td>2012</td>
</tr>
<tr>
<td></td>
<td>illumini Infinity Award</td>
</tr>
<tr>
<td></td>
<td>illumini Infinity Awards ‘Bronze’ for facade lighting 2013 2013</td>
</tr>
<tr>
<td></td>
<td><strong>Lighting Design Awards 2013</strong></td>
</tr>
<tr>
<td></td>
<td>Lighting Design Awards 2013 - International Project (Exteriors)</td>
</tr>
<tr>
<td></td>
<td>2013</td>
</tr>
<tr>
<td><strong>Light-Drive Elite</strong></td>
<td><strong>Mesh RGB</strong></td>
</tr>
<tr>
<td>2010 IDEX/NeoCon Canada Innovation Awards</td>
<td>2010 IDEX/NeoCon Canada Innovation Awards</td>
</tr>
<tr>
<td>Lighting Controls - Silver</td>
<td>Innovative Lighting - Bronze</td>
</tr>
<tr>
<td>2010</td>
<td>2010</td>
</tr>
<tr>
<td><strong>IF Design</strong></td>
<td><strong>Red Dot</strong></td>
</tr>
<tr>
<td>IF Product Design Award 2010</td>
<td>Red Dot Design Award in 2009</td>
</tr>
<tr>
<td>2010</td>
<td>2009</td>
</tr>
<tr>
<td><strong>LFI Innovation Awards</strong></td>
<td><strong>Nano Liner Allegro AC XB</strong></td>
</tr>
<tr>
<td>Design Excellence</td>
<td>IES Progress Report</td>
</tr>
<tr>
<td>2010</td>
<td>Accepted</td>
</tr>
<tr>
<td></td>
<td>2013</td>
</tr>
<tr>
<td><strong>Mesh RGB</strong></td>
<td><strong>Silo 468 - Helsinki, Finland</strong></td>
</tr>
<tr>
<td>2010 IDEX/NeoCon Canada Innovation Awards</td>
<td>Lighting Designer: Lighting Design Collective</td>
</tr>
<tr>
<td>Innovative Lighting - Bronze</td>
<td>IALD International</td>
</tr>
<tr>
<td>2010</td>
<td>IALD International Lighting Design Awards - Award of Excellence 2013</td>
</tr>
<tr>
<td><strong>Red Dot</strong></td>
<td>illumini Infinity Award</td>
</tr>
<tr>
<td><strong>Nano Liner Allegro AC XB</strong></td>
<td>illumini Infinity Awards “Gold” for Light art installations 2013 2013</td>
</tr>
<tr>
<td>IES Progress Report</td>
<td></td>
</tr>
<tr>
<td>Accepted</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
</tbody>
</table>
Project Credits

Stockmann Department Store Helsinki, Finland
Lighting Designer: Olaf Granlund Ltd.
Installer: Sun Effects Ltd.
Photography: © Hannu Iso-Oja 2012

P11
Litte London Wonderland 2012 "Golden Moon"
Hong Kong, China
Lighting Designer/Installer: L.E.A.D
Photography: © LEDARTIST 2012

P12
Healing Power Plant in Linden Hanover, Germany
Installer: Stageled GmbH
Photography: © Stefan Dauth 2013

P13
Kempinski Ambience Hotel Shandong, China
Lighting Designer: Litivate Lighting Design, Singapore
Photography: © Courtesy of Kempinski Ambience Hotel Delhi 2013

P10
Norwegian Cruise Line, Norway
Lighting Designer: General Illumination
Project International, London
Lighting Design Entertainment Area: FUNA
Photography: Resource: Meyer Werft, Papenburg 2014

P8
Patient Room 2020
New York, NY, USA
Architect: Kugler Ning Lighting Design
Lighting Designer: E. Cebeci
Installer: Interlight
Architect: Interspace Lighting Concept: Kugler Ning Lighting Design
Photography: © Florian Licht 2011

P9
Beacon of Hope
Joplin, MO, USA
Architect: Chad Greer, AA of CGA Architects
Sculpture Fabricator: Dan Petrucci
Photography: © Jonathan Hillyer 2013

P10
Suburban Bar
Pamplona, Spain
Architect / Installer: Inte Music 2009

P11

P12

P13

P14

P15

P16
Heldendisplay Museum Leipzig, Germany
Lighting Designer/Architect: Atelier Rosalie
Photography: © Wolf-Dieter Gericke 2013

P17
"Zacheta" National Gallery of Art, Warsaw, Poland
Architect / Lighting Design: Piotr Uklanski
Architect / Lighting Design: Dr. Marian Okoń
Photography: © OSRAM 2013

P18

P19

P20

P21

P22

P23

P24

P25

P26

P27

P28

P29

P30

P31

P32

P33

P34

P35

P36

UNIQLO Myeongdong Central Flagship Store
Seoul, Korea
Lighting Design: FDS
Photography: © UNIQLO 2011

APPENDIX
Project Credits

P38  TV Today Network Studio
Noida, India
Lighting Designer: LDG Lighting Design Group
Installer: Pico
Photography: © TV Today 2012

P40  Clarion Hotel Bergen Airport
Bergen, Norway
Designer / Architect: Aspekt
Design: Oslo Lysdesign AS 2007

P46  David H. Koch Theater
Lincoln Center
New York, USA
Architect/Designer: Diller Scofidio + Renfro/Robson Design Associates
Installer: Evans and Paul
Photography: © Iwan Baan 2009

P50  Eaton
Cleveland, OH, USA
Architect: Perkins+Will, New York
Lighting Designer: Horton Lees Brogden
General Contractor: Dimeo Construction Company
© Mbodje Mobility

P52  Priscilla Queen of the Desert
The Musical
New York City, USA
Designer/Architect: Nick Schillapi
Installer: Hudson Scenic Studio
Photography: © Joan Marcus 2010

P55  Ripley’s Aquarium of Canada
Toronto, ON, Canada
Interior Designer: JSA
VAPS System Integrator: TPL Lighting
Lighting Programmer: Mike Austin at TPL Lighting
Lighting Designer: Alan McIntosh, Stephen Kaye & Paul Boken at Mulvey & Banani
Installer: Symtech 2013

P58  Triumph
Vienna, Austria
Designer / Architect: EasyLife Schütz GmbH
Installer: EasyLife Schütz GmbH
2011

P66  Anyone Who Has A Heart
Manchester, United Kingdom
Lighting Designer: Andrew Strat, Steve Almond
Installer: Adam Moulting
Photography: © Chris Foster 2011

P68  YAS Marina Hotel
Abu Dhabi, UAE
Lighting Designer: ARUP Lighting, New York
Architect: Asymptote Architecture
Project Credits

P70 Cube Chandelier Zwolle, The Netherlands Lighting Designer: Herman ten Hille Senior Marango Projects bv 2011


P74 ESPRIT Flagship Store Frankfurt/Main, Germany Designer/Architect: Cornelia Uedingsbohm Architekten Installer: BEN HUR GmbH Lichtlife GmbH Photography: Frank Alexander Rümmele/LightLife GmbH 2010

P76 UNIQLO Shinjuku Flagship Store Tokyo, Japan Lighting Designer: Sirius Lighting Office, Hirohito Totsune Architect: Soh Fujimoto 2010


T.C. Zinat Bank Headquarters Ankara, Turkey Lighting Designer: Korna Architects 2010

Siemens Headquarters’ Car Park Zug, Switzerland Designer: HEITL/HESS MARIOTONI 2010

P80 Jvmmetal Golf & Spa Resort Datteln, Germany Client: Wellness-Hotel Jvmmetal Installer/Senior Contractor: OSRAM Photography: OSRAM 2013


Pulse Bamboo Pavilion Macau, China Design: USJ 3rd and 4th year architecture students Photography: Courtesy of University of Saint Joseph 2013


P96 Outare International Airport Terminal 5 Chicago, USA Photography: © Sarah Prange 2011


Hotel Pullman Ipanema, São Paulo, Brazil Lighting Designer: Studio K Installer: New Energy Photography: © Alex Salim 2013

P100 Cinque dei Sireni Las Vegas, USA Designer/Architect: KGW/Manell Conno Installer: NSI 2006


P102 650 Fifth Avenue New York, NY, USA Lighting Designer: Tillotson Design Associates Photography: Jeffrey Kilmer 2013

P104 OSRAM Headquarter “Lighthouse” Munich, Germany Installer: Traxon Technologies 2013
Contact

Global Headquarters - Hong Kong
Traxon Technologies Ltd.
208 Wireless Centre
3 Science Park East Avenue
Hong Kong Science Park, Shatin
Hong Kong
China
Tel: +852 2943 3488
Fax: +852 2480 4460
E-mail: info@traxontechnologies.com

Europe/Middle East/Africa (EMEA)
ecue R&D Center
Regional Headquarters - Europe
Traxon Technologies Europe GmbH
Karl-Schurz-Str. 38
33100 Paderborn
Germany
Tel: +49 5251 54648-0
Fax: +49 5251 54648-29
E-mail: info.europe@traxontechnologies.com

Sales Office - France
Traxon Technologies Europe GmbH
Representative Office at OSRAM SASU
5, Rue d’Atorff
67129 Molsheim Cedex
France
Tel: +33 3 88 49 75 99
Fax: +33 3 88 49 75 75
Email: info.europe@traxontechnologies.com

Sales Office - Benelux
Traxon Technologies Europe GmbH
Representative Office at OSRAM Benelux B.V.
Postbus 115, 2900 AC Capelle aan den IJssel
The Netherlands
Tel: +31 (0) 10 750 14 14
Fax: +31 (0) 10 750 14 06
Email: info.europe@traxontechnologies.com

Sales Office - Nordics (UK, Iceland, Denmark,
Norway, Sweden, Finland, Lithuania,
Latvia and Estonia)
Traxon Technologies Europe GmbH
Representative Office at OSRAM London,
OSRAM House, Waterside Drive
Langley Berkshire, SL3 6EZ
Great Britain
Tel: +44 17 53 48 4(100)
Fax: +44 17 53 48 42 22
Email: info.europe@traxontechnologies.com

Sales Office - Germany & Switzerland
Traxon Technologies Europe GmbH
Ursula Platz 1
50668 Cologne
Germany
Tel: +49 (0)221 9988300
Fax: +49 (0)221 99883029
E-mail: info.europe@traxontechnologies.com

Sales Office - Eastic (Poland, Czech Republic,
Slovakia, Hungary)
Traxon Technologies Europe GmbH
Representative Office at OSRAM sp. z.o.o.
Ul. Wiertnicza 117, 02-952 Warsaw
Poland
Tel: +48 22 550 2300
Fax: +48 22 550 2319
E-mail: info.europe@traxontechnologies.com

Sales Office - Ionian (Italy, Greece,
Albania, Malta)
Traxon Technologies Europe GmbH
Representative Office at OSRAM Società Riunite
Viale dell’innovazione 3
20126 Milan
Italy
Tel: +39 02 424 91
Fax: +39 02 424 93 80
Email: info.europe@traxontechnologies.com

Sales Office - Iberia (Spain, Portugal)
Traxon Technologies Europe GmbH
Representative Office at OSRAM S.A.
Ronda de Europa, 5 Edificio D, planta 4º
28760 Tres Cantos, Madrid
Spain
Tel: +34 91 655 52 00
Fax: +34 91 677 91 61
Email: info.europe@traxontechnologies.com

Sales Office - Austria & Slovenia
Traxon Technologies Europe GmbH
Representative Office at OSRAM a.s.
Leonard-Bernstein-Straße 10
1220 Vienna
Austria
Tel: +43 (1) 68068-0
Fax: +43 (1) 68068-7
E-mail: info.europe@traxontechnologies.com

Sales Office - CIS (Ukraine, Kazakhstan,
Uzbekistan, Belarus)
Traxon Technologies Europe GmbH
Representative Office at OAO OSRAM
Ul. Letnikovskaya st. 11/10, Building 1
Moscow, 115114
Russia
Tel: +7 (495) 9357070
Fax: +7 (495) 9357076
Email: info.europe@traxontechnologies.com

Sales Office - South East (Bulgaria,
Romania, Serbia, Croatia)
Traxon Technologies Europe GmbH
Representative Office at OSRAM EOOD
Sitnyakovo Blvd. 48
Floor 6, Office 604, 1505 Sofia
Bulgaria
Tel: +359 (2) 971-2262
Fax: +359 (2) 971-4546
E-mail: info.europe@traxontechnologies.com

Sales Office - Turkey
Traxon Technologies
Representative Office at
OSRAM AYDINLATMA TİC. AŞ.,
Nispetiye Mah. Başlık Sok.
MM Plaza No:3 K:2
34340 Elitler - Beşiktaş - İstanbul
Turkey
Tel: +90 212 306 90 00
Fax: +90 212 306 90 50
E-mail: info.europe@traxontechnologies.com

Sales Office - UAE
Traxon Technologies
Representative Office at
OSRAM Middle East FZE
Room 602-603, LOB #16
P. O. Box 17476
Jebel Ali Free Zone
Dubai
United Arab Emirates
Tel: +9714 8813767
Fax: +9714 8813769
E-mail: info.europe@traxontechnologies.com
Contact

The Americas

Regional Headquarters - New York
Traxon Technologies
20 Murray Hill Parkway, Suite 210
East Rutherford, NJ 07073
USA
Tel: +1 201-508-1570
Fax: +1 201-508-1589
Email: info@traxon-usa.com

Sales Office - Canada
Traxon Technologies
Representative Office at OSRAM Toronto
2001 Drew Road, Mississauga
ON L5S1S4
Canada
Tel: +1 905 673 6171
Fax: +1 905 673 6290
E-mail: info@traxon-usa.com

Regional Headquarters - Latin America
Traxon Technologies
Representative Office at OSRAM Brazil
Av. Dos Autonomistas, 4.229 - 06090-901
Osasco, São Paulo, Brazil
Tel: +55 11 3684 7408
Fax: +55 11 3683 9495
E-mail: americalatina@traxontechnologies.com

Sales Office - Colombia
Traxon Technologies
Representative Office at OSRAM Colombia
Cra.14 No. 94-44
Office 301-303, Torre A, Bogotá
Colombia
Tel: +57 1 644 59 30
Fax: +57 1 644 59 39
E-mail: americalatina@traxontechnologies.com

Sales Office - Argentina S.A.C.I
Traxon Technologies
Representative Office at OSRAM Argentina
Ramos Mejía 2456, B1643ADN Beccar
Poá, De Buenos Aires
Argentina
Tel: +54 11 6333 8000
Fax: +54 11 6333 8001
E-mail: americalatina@traxontechnologies.com

Sales Office - Mexico
Traxon Technologies
Representative of OSRAM de Mexico
Camino a Tepalcapa No.8
Col. San Martín, 54900 Tultitlán
Edo. de México
Mexico
Tel: +52 (55) 5899 1857
Fax: +52 (55) 5899 1902
E-mail: americalatina@traxontechnologies.com

Asia Pacific (APAC)

Regional Headquarters - Hong Kong
Traxon Technologies
208 Wireless Centre
3 Science Park East Avenue
Hong Kong Science Park, Shatin
Hong Kong
China
Tel: +852 2943 3488
Fax: +852 2480 4460
E-mail: info@traxontechnologies.com

Sales Office - China
Traxon Technologies
Representative Office at OSRAM Shanghai
28F, Harbour Ring Plaza
18 Xi Zang Middle Road
Shanghai, PRC, 200001
China
Tel: +86 (21) 5385-3402
Fax: +86 (21) 6482-1219
E-mail: info@traxontechnologies.com

Sales Office - Taiwan
Traxon Technologies
Representative Office at OSRAM Taiwan
7th floor, No.87, Sung Chiang Road, Taipei
Taiwan
Tel: +886 2 2513 1762
Fax: +886 2 2509 6782
E-mail: info@traxontechnologies.com

Sales Office - Singapore/ASEAN
Traxon Technologies
Representative Office at OSRAM Singapore
988 Toa Payoh North
#03-01/06/07/08
Singapore 319002
Tel: +65 6552 0110
Fax: +65 6552 7117
E-mail: info@traxontechnologies.com

Sales Office - India
Traxon Technologies
Representative Office at OSRAM India
A-Wing 503, City Point
Commercial Complex
Andheri-Kurla Road
Andheri (E), Mumbai-400059
India
Tel: +91 22 6725 1556
Fax: +91 22 6725 4665
E-mail: info@traxontechnologies.com

Sales Office - Australia
Traxon Technologies
Representative Office at OSRAM Australia
Level 11, 423 Pennant Hills Road,
Pennant Hills, Sydney NSW 2120
Australia
Tel: 61 2 9980 0761
Fax: 61 2 9980 9127
E-mail: info@traxontechnologies.com

Sales Office - Japan
Traxon Technologies
3-27-15 Jingu-mae Shibuya-ku
150-0001 Tokyo
Japan
Tel: +81 3 6902 0821
Fax: +81 3 3403 3271
E-mail: info@traxontechnologies.com

Sales Office - Korea
Traxon Technologies
Representative Office at OSRAM Korea
3rd Fl., Ye-Sung Bldg., 150-30
Samseong-dong, Gangnam-gu, Seoul,
135-090 Korea
Tel: +82 2 554 4112
Fax: +82 2 556 1644
E-mail: info@traxontechnologies.com
Notes