

# Electronic Theatre Controls

## Europe Product Catalogue





# from the CEO

We have so much new to show you this year — more ETC innovations to

light up your world and work. In these pages, meet the award-winning Source Four LED — combining the best of an ETC Source Four profile spotlight with the best of our Selador LED technology, for a groundbreaking new lighting tool. In controls, we bring you Gio, the newest control desk in our Eos line. Gio boasts powerful Eos functionality, in a compact mid-range board, for touring work or tight control rooms. Gio was also made to control hybrid lighting rigs filled with conventional fixtures like Source Fours (including our new Source Four Fresnel!); LED fixtures like our Source Four LED and Selador luminaires; as well as moving lights. Our Desire line is the new set of LED fixtures within the Selador family, bringing unprecedented rich colour and whites to stage and studio production. Our new Sensor3 Power Control system (it's not enough to call it "dimming" anymore) accommodates all the loads in your hybrid rig — tungsten, LEDs, arc-source moving lights, and beyond. Meanwhile, for architectural lighting control, our new Unison Mosaic Tessera is a tiny dynamo touchscreen that lets you do big colour-changing, artistic effects, or subtle lighting events without requiring a massive control system. And, responding to popular demand, we've introduced the Source Four XT outdoor spotlight. You've wanted to take your Source Fours outside for as long as the Source Four's unique light has existed. Now you can.

As you look at our products, please see beyond them too — to the reasons they are the best in the industry: ETC has the best people. I'm very proud of that. ETC is entering its 37th year of existence — from a small group of college-student inventors to the current international ETC community of over 700 people (not counting representatives, dealers and certified technicians, who are part of the ETC family as well). The history of ETC marks milestones in product introductions, awards, installations, acquisitions, and expansion. But the real story has always been about the brainpower and heart of the individuals who work here. At the same time, we recognize the people behind the use of our products worldwide — *you*. We want to take the opportunity to tell you that your passion for lighting drives us and inspires us. *Thank you for choosing ETC.*

fred foster

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## Europe Product Catalogue

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## The speed of light: Complete Control by ETC

ETC's lighting control desks and systems master the most ambitious lighting rigs – from legions of conventional luminaires, to moving lights, media servers, LEDs and more. We have a desk for every production or venue.

For lighting professionals devoted to the operational DNA of ETC's award winning Eos® family, the choice now includes not only the Eos, Ion®, and Element® consoles but also the new Gio. Top of the line, the powerhouse Eos is the winner of an industry triple crown of honours: LDI, PLASA and Showtech product of the year awards. Eos is aimed at venues with big work to do – Broadway and West End shows, opera, TV and beyond. The new Gio fills the mid range position in the family, between Eos and Ion, offering powerful Eos functionality in a compact, portable footprint to fit anywhere and to take on the road. For productions with less ambitious budgets but still ambitious lighting to do, ETC offers Ion, with the Eos pedigree but geared to a smaller scale. Element maintains the Eos operational style but offers a simplified feature set in a stand alone desk, making it ideal for modest rigs that need more basic hands on fader control.

For time to play, plus speed and on the fly control, many lighting experts love the operational style, big power and flexibility of ETC's Congo, Congo jr and the new Congo Kid – taking their inspiration from the Avab console tradition and the lighting dynamics of rock and roll. No lighting production is too creative for Congo (and Congo jr matches that functionality but in a smaller size and with the flexibility to choose your fader quantity and setup). Congo Kid brings the power of the Congo family to smaller systems with 40 built in faders and all the features of the full Congo software.

And for complete control over any rig the future may hold, the most comprehensive ACN network – ETC's Net3 – is ready. Net3 protocol provides the best traffic management for high capacity applications, speaking directly to complex devices, without the need for added DMX hardware.

### Control

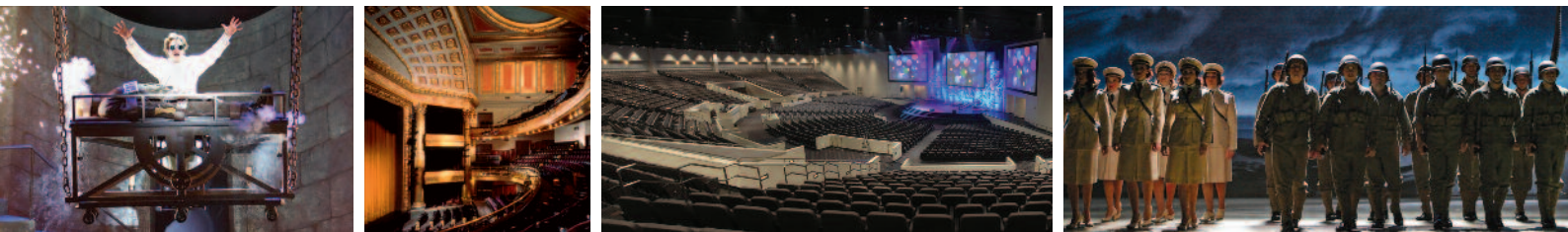
- Eos
- Eos RPU
- Gio
- Ion
- Ion RPU
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- Net3 RVI
- Universal Fader Wings
- Radio Focus Remote (RFR)
- Congo
- Congo Light Server
- Congo jr
- Congo Kid
- Net3 Gateways

SmartFade and SmartFade ML consoles  
[see Smart Solutions chapter]



## Sheikh Zayed Bin Sultan Al Nahyan Mosque (Grand Mosque) Abu Dhabi, United Arab Emirates

This stunning Middle Eastern cultural landmark is one of the most ambitious lighting projects in the world. From architectural and ambient lighting indoors to artistic illumination outdoors (including a 29.5 day cycle mimicking the phases of the moon), the Grand Mosque stands apart for its lighting control. Four ETC Congo desks were used to program the exterior lighting and the cues are run on six Congo Light Servers. Specially written ETC control software provides a sophisticated fault reporting system, ensuring that the 19,000 conventional and 1,250 moving lights communicate with the lighting network via RDM, ACN and Net3 Gateways. The Grand Mosque also employs 52 ETC Matrix Mk II dimmer racks and 15 ETC Unison CMEi Processors for the architectural lighting control.



## Eos® Control System

*Elegant.* ETC's Eos desk provides simple, approachable control in a nuanced programming environment, with stunning depth and power. You'll be surprised by how easy – and fast – moving light control can be. And you don't have to sacrifice what you need for conventional control to get it.

*Original.* We started with a whiteboard and no assumptions. We talked to designers, programmers and electricians. We designed a product that is familiar, comfortable and simultaneously forward looking. We looked for intuitive solutions while reducing keystrokes. Our rich fixture library means palettes can be constructed quickly—automatically or manually. The command line is fully integrated with direct selects, allowing you to work seamlessly from the keypad and the touchscreen controls.

*Sophisticated.* Eos provides touchscreen flexibility with the tactile response of buttons, so you can keep your eyes on the stage, not the desk. And we've got buttons. No mouse needed when you access commonly used programming functions. We don't bury necessary features under layers either. What you need is always within reach.

Each device on the system has a discrete workspace: designers no longer have to sacrifice their needs for those of programmers. Partitioned control provides a safe and effective method for multiple programmers to build content into a single show file. Designers, programmers and electricians must work across venue types with equal ease, and your desk must too.

## Eos Remote Processor Unit (RPU)

Run your lighting show with full Eos software capability without requiring the full Eos facepanel

and hardware. The Eos Remote Processor Unit is a compact 3U 19" rack mount device, providing primary and/or backup processing for Eos lighting control systems. It can be used in conjunction with Eos or Ion desks and also as a stand alone lighting playback unit.



4000/8000/12000/16000 outputs/parameters

10,000 channels (devices)

Dedicated master playback fader pair

10 definable motorised faders, with 30 pages of control

10,000 cues, 999 cue lists, 200 playback faders and 300 submasters

Dedicated pan/tilt or XYZ encoders, 4 pageable encoders

Force-feed back encoders with associated LCD touchscreen

Two 15" LCD touchscreens

Channel summary or table views, user configurable

ETCNet2, Net3(ACN), ArtNet and Avab protocols

Network feedback from Sensor+, Sensor3 and Transtechnik FDX dimmers as well as RDM devices

Multiple simultaneous MIDI and SMPTE inputs

Off-line programming using PC (XP or Vista) or Mac (OS X) Power PC or Intel processors

Show file import from Obsession, Express/ion, Emphasis, Strand 500/300 series and Transtechnik NT/NTX

12 discrete online users with partitioned channel control and synchronised backup

#### ACCESSORIES

Eos Remote Processor Unit (RPU)

Net3 Remote Video Interface (RVI)

Net3 Radio Focus Remote (RFR)

Eos Client Software Kit

Universal 2x10 and 2x20 Fader Wings

Net3 Gateways



4000/8000/12000/16000 outputs/parameters

Supports two DVI/SVGA high-resolution monitors (touchscreens supported too)

USB ports for pointing devices, alpha-numeric keyboards or other control devices

20 user programmable front panel buttons



# Gio



## Introducing Gio Control Desk

Gio is the newest console in ETC's award winning Eos® lighting control line. Gio fills the mid range position in the family, between Eos and Ion® – boasting the same powerful programming DNA. Gio offers Eos level functionality and popular operational syntax, in a compact, portable footprint – to fit anywhere or to take on the road.

Gio also introduces new technologies to the Eos line up. The desk features backlit buttons to make working in dark places easier (and saves your dimmable Littlites® for seeing your script instead!). Gio also includes two integral articulating multi-touch displays and supports up to three external displays, all of which can also be multi touch.

Gio's keypad layout is virtually identical to Eos's, making moving between platforms a snap. And Gio can integrate into an Eos or Ion system with ease, acting as a primary, backup, or client console in combination with the rest of the family. All of the accessories for Eos and Ion service Gio as well.

Gio – *more* Complete Control – from ETC.






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10000 channels (devices)

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2048, 4096, 6144 or 8192 outputs/parameters

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Dedicated master playback fader pair

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10 definable motorised faders, with 30 pages of control

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999 cue lists

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200 active playbacks

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300 submasters

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4 haptic encoders

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2 – 12.1" LCD touchscreens

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High-density live and blind displays

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Electronic magic sheets

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Virtual Media Server Control with stock content (user images may be imported)

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Net3 (ACN) and ETCNet2 native

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Multiple MIDI and SMPTE Inputs

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Client/server networking and synchronised backup

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Offline and Client programming on PC (Windows 7 or XP) and Mac (OS X Intel)

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Data laundering from Obsession, Express/ion, Emphasis, Congo and Strand 500/300 series show files via ASCII

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12 discrete on-line users with partitioned control

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Seven multipurpose USB bus (pointing devices, keyboard, touchscreens, flashdrives)

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## ACCESSORIES

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Eos line Remote Processor Unit (RPU)

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Net3 Remote Video Interface (RVI)

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Net3 Radio Focus Remote (RFR)

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Eos line Client Software Kit

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Universal 2x10 and 2x20 Fader Wing

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Net3 Gateways

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Remote control apps for handheld devices: iRFR (Apple devices) and aRFR (Android devices)



## Ion® Control Desk

The ease, power and operational style of Eos in a small, affordable package. Civic theatres, university and college stages, touring shows – ETC's Ion brings compact lighting control to any multimedia-filled lighting rig. Ion's small footprint makes it the perfect fit for any ambitious production: use it as a stand alone system in space challenged applications or as a remote programming station for an Eos system. Ion's modular design lets you add submaster wings for more hands on control.

Mouse-free navigation! Ion sports many of the sophisticated features of Eos, which are accessed through front panel controls or up to two external monitors with touchscreen capability.

With Ion's add on Fader Wings you can access up to 300 pageable faders to support main desk operation. Connect the wings directly on either side of Ion or use them as stand alone accessories connected through USB.

Connect Ion to an Eos system and use it as a convenient facepanel for programming and accessing system information.

## Ion Remote Processor Unit (RPU)

The Ion Remote Processor Unit supports stand alone operation, or can be networked with other Eos or Ion devices for fully synchronised primary/backup operation. Supporting up to two monitors, which can also be touchscreens, and with a small 2U, 19" rack mount form factor, the RPU supports the full functionality of Ion. It can be used with all Eos/Ion product family accessories. The Ion RPU is available in two parameter counts, 2048 or 3072.



1024, 1536, 2048, 2560 or 3072 outputs/parameters

10,000 channels (devices)

Dedicated master playback fader pair

Dedicated grand master and blackout

999 cue lists

200 active playbacks

300 submasters

Four pageable encoders

Channel summary or table views, user configurable

Blind spreadsheet views

Direct blind access to all record targets from the facepanel

Electronic magic sheets

ETCNet2, Net3/ACN, ArtNet and Avab protocols

Network feedback from Sensor+, Sensor3 and RDM devices

Multiple simultaneous MIDI and SMPTE inputs

Synchronised backup

Off-line programming using PC (XP or Vista) or Mac (OS X)  
Power PC or Intel

Show-file import from Obsession, Express/ion, Emphasis,  
Strand 500/300 series and Transtechnik NT/NTX

Four discrete online users with partitioned channel control

## ACCESSORIES

Ion Remote Processor Unit (RPU)

Net3 Remote Video Interface (RVI)

Net3 Radio Focus Remote (RFR)

Eos Client Software Kit

1x20 Fader Module

2x10 Fader Wing

2x20 Fader Wing

Net3 Gateways



# Element



## Introducing Element® Control Desk

*The basics of lighting control, redefined.*  
Designed for smaller venues, Element provides

the simplicity of hands on control of intensity for up to 120 channels on LTP channel faders. Available in two versions: Element 40, with 40 faders that can be switched from channel to submaster operation with the turn of a switch; and Element 60, with an additional 20 faders that are always in submaster mode.

When you're ready, move up to Element's powerful command line functions for Go-button playback of timed cues. Command prompts appear on screen so that you can see real time, context sensitive help instructions as you work, making it easy to learn Element's command line syntax.

Adding more complex devices to your rig for big shows? Element has On Demand ML Controls designed for on screen manipulation of accessories such as scrollers, mirror heads and gobo rotators or more complex devices like LED fixtures and moving lights.

Element is a stand alone desk with onboard DMX outputs and the ability to distribute data via an Ethernet network to Net3 Gateways, if needed. Element supports connection of client PCs, Macs and Net3 Remote Video Interfaces in Mirror Mode and also supports the Net3 Radio Focus Remote (RFR) via USB or Ethernet, the iRFR for iPhone/iPod Touch via WiFi and the very basic DECT Phone Remote option.




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1024 outputs/parameters

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250 or 500 channels (devices)

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Dedicated master playback fader pair

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Dedicated grand master and blackout

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1 cue list

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300 submasters

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120 channel faders (40 x 3 pages)

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On Demand ML Controls

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Channel Summary and Table Views

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Blind views with Spreadsheet

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ETCNet2, Net3/ACN, ArtNet and Avab protocols

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MIDI and SMPTE Inputs (SMPTE via Net3 Show Control Gateway)

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Offline programming using PC (XP or Vista) or Mac (OS X)  
Power PC or Intel

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Show file import via ASCII from ETC Obsession, Express/ion,  
Emphasis, Strand 300/500 series and Transtechnik NT/NTX

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## ACCESSORIES

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Net3 Remote Video Interface (RVI)

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Net3 Radio Focus Remote (RFR)

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Element Client Software

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Phone Remote

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Touchscreen compatible

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Wheel Mouse (included)

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USB keyboard





# Accessories



## Net3 Remote Video Interface (RVI)

View desk functions from the tech table or designer's work spot. The Remote Video Interface is a convenient 2U 19" rack mount device that provides remote video and local programming functions for Eos®, Gio, Ion®, Element®, Congo and Congo jr systems. Controls on the front of the unit include the power switch, USB port and 20 buttons for commonly used functions. These buttons have default mapping specific to Eos and Congo lines, reflecting commonly used features for the designer or assistant designer. Eos and Ion provide the ability to easily reprogram these keys as your system requires. When the RVI is used with Eos, Gio or Ion, Net3 RFRs and Universal Fader Wings can be attached via USB.

View desk functions from the tech table or designer's work spot. The Remote Video Interface

## Universal Fader Wings

flexible playback options at an economical price. The Wings may be connected physically to either side of Ion or Congo jr or may be used as stand alone wings connected to Eos, Gio, Ion, Congo or Congo jr with provided USB cable. Also available for Ion and Congo jr and for rack mount installations, the economical 1x20 Universal Fader Module offers 20 faders without LCD displays. This module fits across the top of the desks and can be mounted into a 19" rack.

*Modular hands on control!* ETC's Universal Fader Wings are accessories for Eos, Gio, Ion, Congo and Congo jr. The compact Wings offer

## Net3 Radio Focus Remote (RFR)

well as Congo and Congo jr, ETC's Radio Focus Remote handheld transmitter unit provides immediate access to frequently used commands for dimmer and channel checks and offers an array of soft keys for more advanced functions. Soft keys and status information from the desk are displayed on the handheld's OLED display. The small receiver unit plugs directly into and is powered by a USB connection on the desk or a powered Ethernet connection in your lighting network.

*Powerful wireless solution for remote control!* Compatible with Eos, Gio, Ion and new Element as

## NET3 RVI

[www.etconnect.com/RVI](http://www.etconnect.com/RVI)



Supports up to two DVI/SVGA high-resolution monitors (touchscreens optional)

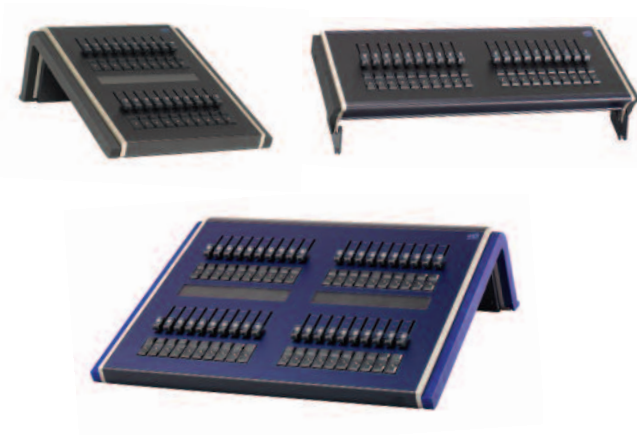
USB ports for pointing devices, alpha-numeric keyboards or other control devices

Front panel LEDs to indicate status

Compatible with Eos, Gio, Ion, Element, Congo, Congo jr

## UNIVERSAL FADER WINGS

[www.etconnect.com/faderwings](http://www.etconnect.com/faderwings)



Modular design

Local or remote power/data

20 or 40 faders

1 or 2 LCD displays for labelling (except 1x20 Fader Module)

Two keys per fader for various functions (based on current mapping)

Direct or remote connection via USB

1x20 Universal Fader Module fits directly on desk

Module offers rack mount option

Wings and module compatible with Eos, Gio, Ion, Eos/Ion RPUs, Congo, Congo jr, Congo Light Server, Net3 RVI and Eos/Congo Clients

## NET3 RADIO FOCUS REMOTE (RFR)

[www.etconnect.com/RFR](http://www.etconnect.com/RFR)



Compatible with Eos, Gio, Ion, Element, Congo, Congo jr and Congo Kid

Handheld transmitter

Generous radio range

Bright and easy to read OLED display for Softkeys and System Feedback

Dual Encoders with integral switches for variable control of intensity and other moving-light parameters

Hard and soft keys for commonly used commands and advanced functions

Programmable Sleep feature

On/Off switch

Supports multiple systems operating separately in same area

Plugs into USB or powered Ethernet connection

Belt clip and wrist strap lanyard hanging point



# Congo



## Congo Control Desk

ETC's Congo combines the simplicity of classic lighting control systems with the feature-rich functionality of a dedicated moving lights desk. Basic functions for everyday theatre work with conventional lights, plus advanced control over moving lights, LEDs, media servers and more – without relying on mouse operations or computer menus. From totally preprogrammed shows to completely random live events, Congo offers you the tools you need to get your lighting design onto the stage. And on the fly shows benefit from Congo's 40 Master Playbacks (80 via Universal Fader Wings), and the new effects and innovative Jam mode with two-scene masters that comes with the new V6 software package. Create chases, dynamic movement and image effects and then manipulate them live with a minimum of effort. Congo desks are used worldwide in touring shows, theatres, performing arts centres and broadcast studios.

## Congo Light Server

All of Congo's power in a convenient 19" rack mountable enclosure. Useful as a backup or as a stand alone controller in installed systems, the Light Server plays back Congo shows and offers a limited user interface for minor editing. Trigger your events using MIDI, serial or contact closure directly or together with Net3 I/O Gateways.



## CONGO DESK

[www.etconnect.com/congo](http://www.etconnect.com/congo)



3 video outputs (sVGA, 1024x768 minimum)

40 Master Playbacks + 40 Direct Select keys with LCD displays (physical access to Masters 41-80 via wing)

Theatrical Playback with split spring loaded rate controls

Independent sections with 6 Special Function Pots and 3 Keys

Up to 3072 channels (devices) and 6144 outputs/attributes

DMX512A x2, ETCNet2, Net3/ACN, ArtNet, Avab IPX protocols, MIDI In/Out

Network feedback from Sensor+ and Sensor 3

Hard disk memory, USB connections for portable memory sticks, accessories

Show import via ASCII (Pronto, Safari, Expert, Strand 500, ETC Expression, ETC Express)

Net3 Remote Video Interface (RVI)

Net3 RFR, cRRFU and phone remote control

Advanced synchronised backup and Multiuser features

## CONGO LIGHT SERVER

[www.etconnect.com/congolightserver](http://www.etconnect.com/congolightserver)



2 video outputs (DVI/sVGA 1024x768 minimum)

20 Key facepanel with most-used functions

Optional Master Playback Wing, Universal Fader Wings

Up to 3072 channels (devices) and 6144 outputs/attributes

DMX512A x2, ETCNet2, Net3/ACN, ArtNet, Avab IPX protocols, MIDI In/Out

Network feedback from Sensor+ and Sensor 3

Hard disk memory, USB connections for portable memory sticks, accessories

Show import via ASCII (Pronto, Safari, Expert, Strand 500, ETC Expression, ETC Express)

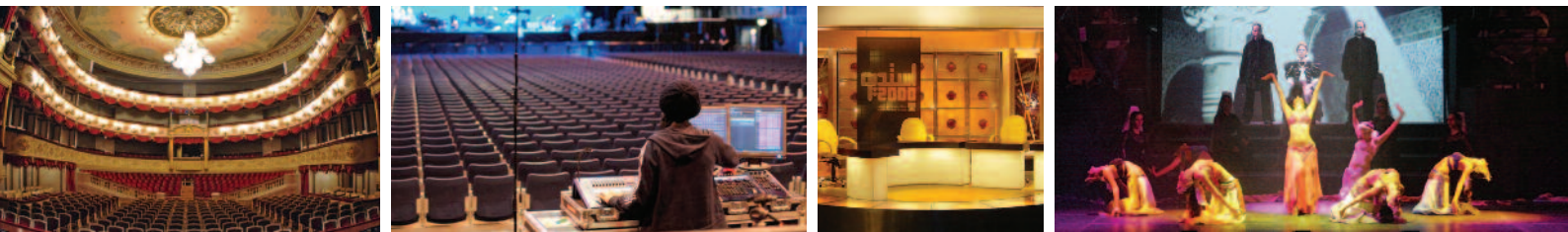
Net3 Remote Video Interface (RVI)

Net3 RFR, cRRFU and phone remote control

Advanced synchronised backup and Multiuser features



# Congo



## Congo jr Control Desk

Small spaces don't always have small lighting needs. Running the same powerful software as Congo, the compact and modular Congo jr sports all the features, channel and output capacities of its bigger sibling. Suitable for stand alone use or as a convenient backup desk, Congo jr can fit within a standard 19" rack on a shelf. All Congo's programming functions can be accessed on Congo jr's smaller facepanel. Plus, Congo jr's optional Master Playback Wing provides hardware for 40 Master Playback faders as well as full access to the Direct Selects for quick access to groups, palettes and screen layouts. Or, use Universal Fader Wings or Universal Fader Module for a more economical and physically smaller fader option. The wings can be connected to either side of the desk or used as stand alone accessories connected via USB. Bigger isn't always better: Congo jr is an ideal fit for touring shows, festivals, schools, TV studios and other venues with cramped control rooms (or no control room at all).

## Introducing Congo Kid Control Desk

The new Congo desk on the block, Congo Kid puts powerful Congo software, feature rich functionality and comprehensive effects package within reach of smaller-scale venues that want to control a mix of conventionals, LEDs, scrollers, moving lights and media servers. Congo Kid offers the facepanel controls that ETC's Congo jr desk has, with 40 master faders in a single desk enclosure. Whether pre-programmed with cues or operated on the fly, Congo Kid is a great 'busking' board for small theatres and houses of worship, or for broadcast, club system, concert, and special event lighting applications.

The desk comes with 256 or 512 control channels (the 256-channel Kid can be easily increased to 512 channels with an upgrade code purchase). Congo Kid can be used as a stand alone system or as a client or backup (up to the capacity of the Congo Kid) to any Congo family desk.

## CONGO JR DESK

[www.etccconnect.com/congojr](http://www.etccconnect.com/congojr)



2 video outputs (DVI/sVGA, 1024x768 minimum)

Condensed moving light/softkey/Direct Select section with access to groups, palettes, parameter

Combined Main and Master Playback controls

Optional Master Playback Wing or Universal Fader Wings

Independent sections with 3 Special Function Pots and 3 Keys

Up to 3072 channels (devices) and 6144 outputs/attributes

DMX512A x2, ETCNet2, Net3/ACN, ArtNet, Avab IPX protocols, MIDI In/Out

Network feedback from Sensor+ and Sensor 3

Hard disk memory, USB connections for portable memory sticks, accessories

Show import via ASCII (Pronto, Safari, Expert, Strand 500, ETC Expression, ETC Express)

Net3 Remote Video Interface (RVI)

Net3 RFR, cRRFU and phone remote control

Advanced synchronised backup and Multiuser features

## CONGO KID DESK

[www.etccconnect.com/congokid](http://www.etccconnect.com/congokid)



Up to two monitors, 2 x DVI or 1 x DVI + 1 x SVGA

Condensed moving light/softkey/Direct Select section with access to groups, palettes, parameter

256 or 512 devices/channels and 1024 outputs/parameters

40 Built in Master Playback faders and keys, does not support additional wings

DMX512A x2, RDM, ETCNet2, Net3/ACN, ArtNet, Avab IPX protocols, MIDI In/Out

Network feedback from Sensor+ and Sensor3

Hard disk memory, USB connections for portable memory sticks, accessories

Show import via ASCII (Pronto, Safari, Expert, Strand 500, ETC Expression, ETC Express)

Net3 RFR, cRRFU and phone remote control

Remote control apps for handheld devices: iRFR (Apple devices) and aRFR (Android devices)

# Net3



## Net3 Networking

ETC pioneered Ethernet based networking in entertainment lighting systems. Our ETCNet gave you plug-and-play simplicity and the power to transmit DMX, video and remote focus data on a single wire. With ETCNet2, we took you to the next level with a fully switched TCP/IP network with innovations such as EDMX, ETCLink over Ethernet, Unison architectural integration, prioritised control and HTP merging of multiple control sources. Net3 pushes back the boundaries again, proving even further that – protocols aside – not all networks are created equal.

Network at the speed of light. With ETC's powerful Net3, powered by ACN (Architecture for Control Networks), we give you an open network with the highest degree of reliability. Supporting tomorrow's innovations today, the new Net3 products support the industry standard ACN communications in migrating the functions of existing legacy protocols into a truly network native environment. In its simplest use, Net3 allows users of ETC lighting equipment to connect to the network and start controlling the system. Continuing to lead the industry's development of the ESTA standard for ACN and related protocols, ETC is committed to a plug-and-play environment for its networked equipment and cooperative protocol support for all lighting manufacturers' products.

### OVERALL FEATURES

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Real time high speed dynamic feedback

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Best network traffic management available

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Easy setup and network configuration

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Tested beyond standard use applications for failure prevention and assured performance

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Integration test with over 300 total network lighting devices

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Net3 four port DMX/RDM Gateway



Net3 two port DMX/RDM Gateway



Net3 one port Gateway



Net3 I/O Gateway



Net3 Show Control Gateway

**NET3 FOUR PORT DMX/RDM GATEWAY**

ETCNet2, Net3/ACN native, sACN DMX over Ethernet

Modular output ports for flexible configuration and ease of service

5-Pin XLR, RJ45 (M and F) and terminal block

DMX and RDM

Portable or rack mount, up to 2 Gateways in one rack unit

Powered by AC adapter or Power-over-Ethernet (PoE 802.3af)

**NET3 TWO PORT GATEWAY**

Wall mount in a two gang backbox

ETCNet, ETCNet2, sACN DMX over Ethernet

Input (M) or output (F) connector

DMX and RDM

Powered by AC adapter or Power-over-Ethernet (PoE 802.3af)

Portable style also available

**NET3 ONE PORT GATEWAY**

Wall mount in a single gang backbox

ETCNet2, Net3, sACN DMX over Ethernet

Powered by AC adapter or Power-over-Ethernet (PoE 802.3af)

Portable style also available

**NET3 I/O GATEWAY**

Net3/ACN native

16 contact closure (single pole double-throw outputs)

24 analogue/digital inputs

RS-232 port

Portable or rack mount, up to 2 Gateways in 1 rack unit

Powered by AC adapter or Power-over-Ethernet (PoE 802.3af)

**NET3 SHOW CONTROL GATEWAY**

Net3/ACN native

MIDI in/out/through

Eos- and Congo-family desks supports MIDI Show Control and MIDI Time Code (plus MIDI Node for Congo)

SMPTE input

Powered by AC adapter or Power-over-Ethernet (PoE 802.3af)



## ETC Smart Solutions

No production is too small to have great lighting systems by ETC. Our Smart Solutions mean simple but powerful compact lighting gear for every event—gigs, corporate events, touring productions, school plays, festivals, small theatres and more. Set up anywhere and light like a pro. There are even Smart Solutions for your permanently installed lighting needs. ETC lighting quality, at a smart price.

SmartFade and the award winning SmartFade ML are the little ETC desks with big desk attitudes. Portable but powerful – SmartFade and SmartFade ML work as main control boards or as back-up desks. They're ideal for beginners or pros. And SmartSoft software on your PC or Mac adds enhanced displays and interactive controls to your desk.

ETC's SmartPack dimmers with SmartLink provide ETC performance in economical units that fit into any space. Choose the SmartPack Portable Pack for rack mounting in any space, or the SmartPack Touring System – a little road warrior with professional dimming power. For permanent installations, there is the budget friendly power of SmartPack Wall Mount.

Need the flexibility of distributed dimming? With ETC's new SmartBar 2 or SmartModule 2 you can place your dimmers wherever you need to – near your luminaires, on the floor, in the truss, under the set – for maximum lighting control convenience. SmartBar 2 and SmartModule 2 are both designed to offer out-of-the-box dimming solutions. Each can be used wherever and whenever specific performances demand flexibility within a lighting system. Both dimming products are self-contained, with on-board processing, local and remote control and output connectors.

And ETC's crank-up SmartStand unit lets you put your SmartBars and luminaires anywhere, for short term production setups.

ETC's SmartLink® is a budget minded lighting control system for basic applications, allowing you to recall lighting looks with a push of a button. (Easy remote control of presets and sequences in SmartPack, Unison DRd and Sensor+!)

### Smart Solutions control

**SmartFade desk**

**SmartFade ML desk**

**SmartSoft software**

### Smart Solutions dimming

**SmartPack Portable Pack**

**SmartPack Wall Mount**

**SmartPack Touring System**

**SmartBar 2 dimmer bars**

**SmartModule 2**

**SmartStand**

SmartLink Control  
[see Architectural chapter]



# Smart Solutions

## Blackhawk Church

Madison, Wisconsin, USA

Blackhawk Church recently opened its new, expansive facility that includes several busy worship spaces, multi-use rooms and offices. To keep up with the lighting needs for their schedule of services, special productions and day to day activities, Blackhawk employs ETC's versatile and economical SmartFade control desk. One board for all levels of expertise: ministry leaders can design the lighting for events beforehand and then volunteers can easily play back the looks on SmartFade—changing the lighting on the fly, as needed. Compact and lightweight—SmartFade is also easy to take from one space to another. Blackhawk can even use it outdoors. One lighting board serves many needs—saving on tight budgets and time.



# Smartfade



## SmartFade Control Desks

Perfect for small theatres, touring shows and schools or as backup desks in larger systems, ETC's SmartFade lighting control desks are lightweight, portable and packed with features. The SmartFade 1248 and 1296 can be fitted with a bracket for use in an equipment rack. The slightly wider SmartFade 2496 doubles the available control channels and faders, while adding only 23cm to the width. From its basic Two Scene mode to the full featured Normal mode, SmartFade is flexible enough to suit beginners or experienced operators. SmartFade's DMX Backup mode provides systems designers with a simple solution for desk backup and stage manager's panels. Able to capture the state of an entire DMX universe and store 24 or 48 individual memories, the DMX Backup mode can take over automatically in the event of a main desk failure.

## SmartFade ML Control Desk

Portable control over moving lights! SmartFade ML is one powerful little lighting desk. Compact, versatile and simple to use, ML builds on the concepts of SmartFade, adding intuitive control for moving lights. Direct luminaire select keys show the current colour mix so that managing small rigs is simple. SmartFade ML's memories, sequences and cue stack provide flexible playback options. Backlit elastomer buttons make it easy to operate in dark locations. And for more information fast, simply connect your PC or Mac running the SmartSoft application to gain editing and display options unheard of on a desk of this size. SmartFade ML offers two DMX ports for 1024 outputs and has a capacity of up to 24 moving lights and up to 48 conventional dimmers, as well as built in effects. The direct parameter controls on SmartFade ML's 24 faders makes moving lights accessible to anyone.

## SmartSoft Software

Compatible with SmartFade and SmartFade ML, SmartSoft runs on a PC or Mac and connects to your desk via USB for real time displays and editing functions. This software can also be used as an offline editor or a learning tool. English, French, German, Spanish and Italian language support.

SmartSoft is available as a free download from the ETC website at [www.etcconnect.com/downloads.aspx](http://www.etcconnect.com/downloads.aspx)



## SMARTFADE

[www.etconnect.com/smartfade](http://www.etconnect.com/smartfade)



1248, 1296 and 2496 versions

Two Scene mode, Normal mode and Backup mode

DMX Out/DMX In (full universe)

MIDI In and MIDI Out connectors

USB port for connection to optional SmartSoft (PC + Mac) display software

Use with or without SmartSoft (PC + Mac) display software

Sequences (48 24-step sequences and a 199-step cue stack)

Manual, timed and rate-override playback

Magic function creates random output and sequences

Snapshots for temporary storage of looks

SD card slot for show backup

LCD menu for configuration and preview

English, French, German, Spanish and Italian language support

## SMARTFADE ML

[www.etconnect.com/smartfadeML](http://www.etconnect.com/smartfadeML)



24 moving lights and 48 separate dimmers

1024 outputs on 2 x DMX connectors

Built-in moving light personalities

Colour coded button function, including indication of colour mix for fixtures

Dual LCD screens and 3 encoder dials for control, level indication and menu display

Move-while-dark and parameter fan features

24 each of Groups, Focus, Colour and Beam Palettes

Focus and Intensity Effects built in

10 Snapshots

288 memories

144 24-step sequences

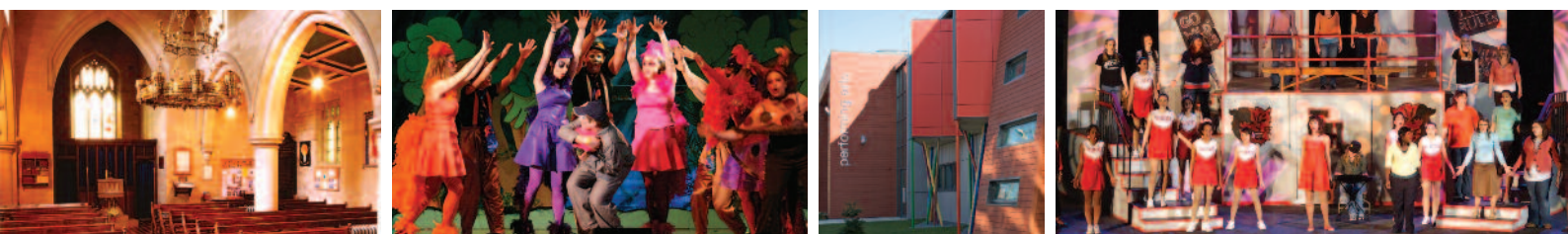
1 cue stack of up to 199 steps

USB port for connection to optional SmartSoft (PC + Mac) display software

Use with or without SmartSoft (PC + Mac) display software

MIDI remote control in and out, compatible with SmartFade and music sequencers

English, French, German, Spanish and Italian language support



## Smart Solutions in Dimming

Don't compromise on power because of size requirements. ETC developed a family of affordable dimming products

built to the scale and needs of smaller productions and venues: restaurants, TV studios and video shoots, schools, corporate events, semi-professional touring shows and beyond. Smart Solutions provide standard phase control dimming in a super compact form, plus ETC reliability and service at a smart price.

Three convenient SmartPack choices mean dimming for everyone! Available with either three 5kW, six 3.2kW or twelve 2.3kW dimmers, the SmartPack Portable Pack is the flexible, plug-and-play solution for small entertainment events, school and roadshow applications. SmartPack Wall Mount, available with either three 5kW, six 4.6kW or 3.2kW or twelve 2.3kW dimmers, is for space starved venues that need permanent dimming with a small footprint, such as restaurants, clubs and schools. Both SmartPack versions do DMX and SmartLink® architectural control. Plug in a SmartFade lighting desk for easy programming and let SmartPacks run on their own or access the 32 built in presets and internal sequencer remotely via SmartLink button stations. Both SmartPack Portable Pack or SmartPack Wall Mount can run the presets in sequence automatically. By simply adding a low cost LinkConnect Station Power Supply, you can access the presets and sequence from ETC's SmartLink button stations or TimeClock.

*Hit the road!* The SmartPack Touring System is a small flexible touring rack with incredible reliability and performance. This compact unit is the perfect piece of gear for anything from weekend gigs to regional festivals and small touring productions. The rack has built-in mains distribution – all in one box – and, like the other SmartPacks, is one of the most lightweight and portable systems made. The rugged SmartPack Touring System is available with your choice of outputs. The system provides all you need for a simple show – power distribution, including convenient outlets, as well as all the standard SmartPack features. Thanks to SmartLink you get added flexibility for pack-to-pack communication and synchronisation of the presets and built in sequence.



**SMARTPACK PORTABLE PACK**

- 19" 2U rack mount enclosure
- 3 x 5kW, 6 x 3.2kW and 12 x 2.3kW versions
- Wide range of output panel options
- Built-in presets (32) and sequencer for stand-alone operation
- Fully rated all-magnetic circuit breakers
- DMX512A compatible
- SmartLink enabled



**SMARTPACK WALL MOUNT**

- Compact wall mount unit
- 3 x 5kW, 6 x 4.6kW, 6 x 3.2kW or 12 x 2.3kW versions
- True SCR reliability based on acclaimed ETC Sensor dimming technology
- Standard output connections via DIN Rail terminals
- Fully-rated all-magnetic circuit breakers
- Built-in presets (32) and sequencer for stand-alone operation
- Built-in SmartLink control provides pack-to-pack communication of presets and sequences, with optional stations



- Built-to-travel roadcase systems
- CEE 63A power input
- Circuit-breaker power distribution per pack
- RCD protection included
- DMX512A control
- SmartLink enabled



# Smartbar 2



## SmartBar 2

SmartBar 2 gives you next generation distributed dimming for smaller portable or permanent installations – without breaking your budget. It provides an integrated dimming and luminaire mounting solution for compact, low-wattage applications such as rentals, corporate events or small touring productions. Plug in and play. Schools, smaller regional and community theatres, gigs and outdoor events really benefit from SmartBar 2's easy, 'no professional required' setup. SmartBar 2 is fully digital, with operational and programming features similar to SmartPack—presets, sequences (chases), choice of dimmer curves—as well as many new features. A lighting control desk is optional, thanks to SmartBar 2's chases and local control, but pair it with a SmartFade board and you have the perfect production combination. SmartBar2 is controlled via DMX512A and provides RDM communication to compatible control desks.

## SmartModule 2

SmartModule 2 combines a proven dimmer design with portable packaging to provide yet another Smart Solution. Available with four or six 2.3kW dimmers, SmartModule 2 comes in a convenient convection cooled package, with your choice of output connectors. An integrated module includes local control capabilities and 20 pre-programmed chases for unattended operation. Each dimmer curve may be changed at the control module, which also provides a DMX In and Thru connector. Combine SmartModule 2 with SmartBar 2 for 'anywhere dimming, anytime'.

## SmartStand

ETC's SmartStands are the perfect complement to your SmartBars. The crank-up stand can easily be loaded with a dimmer bar and luminaires, providing great illumination for events in conference and convention rooms, schools, small gigs, studios and black-box spaces. The SmartStand provides a convenient, safe alternative to rigging or homemade hanging positions.

## SMARTBAR 2

[www.etconnect.com/smartbar2CE](http://www.etconnect.com/smartbar2CE)

4 and 6 circuit dimmers 2.3kW

10A circuit-breaker load protection per output

Integrated digital dimming

Choice of output connectors single CEE 16A, UK 15A or Dual Schuko and NF (French)

Programmable functions such as min/max levels, fadetimes, non-dim operation and dimmer curves

Built-in chase sequences

DMX In and Through connectors

RDM identification and remote addressing



## SMARTMODULE 2

[www.etconnect.com/smartmodule2CE](http://www.etconnect.com/smartmodule2CE)

4 and 6 circuit dimmers 2.3kW

Single phase (4 x 2.3kW) and 3 phase (6 x 2.3kW)

Choice of output connectors: CEE 16A, UK 15A, Schuko and NF (French)

Stand alone operation with chase sequences



## SMARTSTAND

[www.etconnect.com/smartstand](http://www.etconnect.com/smartstand)

Perfect platform for 150cm SmartBar and Source Four luminaires

Heavy duty stand rises to height of 3.8m

Fold away hand crank for gradual height adjustment

Double risers extend simultaneously

Sturdy adjustable footstep





## ETC Power Control

Sensor's acclaimed dimming has evolved — to Sensor3 Power Control. Entertainment lighting has entered the most radical period of change since the transition from carbon arc to incandescent light sources. New types of fixtures are everywhere — in theatre, broadcast production and architectural applications. Sensor3 Power Control is designed to handle change. For thousands of venues and productions worldwide, ETC's power handling systems are the trusted workhorses behind the scenes and on the road, chosen for adaptability, reliability and longevity.

The ideal new theatre design or retrofit uses a hybrid lighting system that can accommodate all loads — tungsten, LEDs and discharge loads. The new Sensor3 ThruPower Module allows you to switch freely between constant power, on/off switching with air gap relays and dimming for your lighting loads.

ETC's CEM3 is the powerful new platform for Sensor3 Power Control, giving you high performance, easy to use control, plus rock-solid systems backup. And ETC's Net3 offers network native ACN connectivity to the highest quality centralised systems with options of distributed or hybrid systems for any venue. Sensor3's tight integration with ETC lighting control desks makes it an extension of them, for unparalleled system management, even when you're working remotely. And any ACN based software or control desk can be seamlessly integrated into the Sensor3 system.

Power distribution is as important in a high stakes entertainment or architectural lighting system as any of the more glamorous system components. ETC gives you the most durable, reliable and affordable power handling. We're also specialists in custom distribution. Whatever the size or scale of the lighting installation, we'll tailor the distribution to meet your needs.

### Matrix Mk II Dimming

**Matrix Mk II Rack**

**Matrix SineWave Dimmer Modules**

**Matrix Mk II Touring Rack**

### Distributed Dimming

**SineWave Power Modules**

### Alex M Dimming

**Alex M Portable Pack**

**Alex M Touring Rack**

### ETC Power Control

**Sensor3 Power Control Installation Rack**

**Control Electronics Module (CEM3)**

**Sensor Dimmer Modules**

Smart Solutions dimming [see Smart Solutions chapter]: SmartPack Portable Pack, SmartPack Wall Mount, SmartModule 2, SmartBar 2, SmartStand



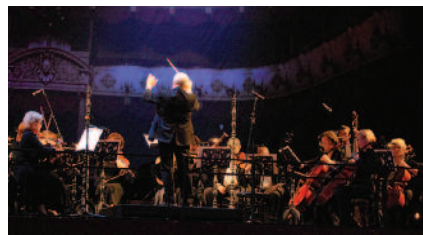
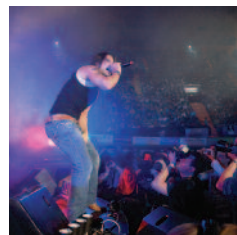
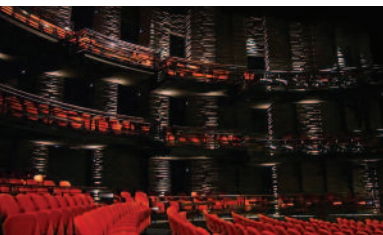
## Palazzo Hotel and Resort

Las Vegas, Nevada, USA

Thanks in part to ETC products, the Palazzo Las Vegas is the greenest hotel and resort complex on the Strip. The luxurious Palazzo is also one of the largest LEED-certified structures. Energy efficient building control systems are a cornerstone of LEED compliance. ETC Sensor+ dimming and a Unison lighting control system were part of the installed lighting package, plus more than 100 ETC Source Four luminaires, which are an energy-frugal standard. The Unison system is programmed to save energy through occupancy sensing and daylight harvesting, as well as performing astronomical functions and interfacing with photo cells. The Palazzo's annual savings in electricity is reckoned to be more than 10.6 million kilowatt hours. Palazzo demonstrates that an upscale property can meet standards for quality, beauty, and environmental responsibility simultaneously. Palazzo's lighting gear list includes 50 ETC dimmer racks, 97 Unison stations, 1847 ETC dimmer modules, 52 Source Four HID 150W luminaires and 50 Source Four 375W luminaires.



# Matrix Mk II



## Matrix Mk II SineWave

The highest performance and most flexible dimmer racks available. ETC's Matrix Mk II systems are available in standard forward phase and innovative sine wave solutions. Matrix Mk II racks are engineered in Swing Frame or Rear Access rack configuration — easy to install, simple to use and inexpensive to service. Racks are shipped assembled — no additional assembly required by the contractor. Convenient front access (Swing Frame only), with readily accessible line, load and control terminations makes ETC's dimmer racks the first choice of contractors and installers.

Hear the music not the lights. Matrix Mk II SineWave dimming systems produce a pure sine wave output for any lighting load and eliminate the inherent problems with forward and reverse phase control: harmonics and acoustics. Plus, ETC SineWave dimmer modules can handle any load: resistive, inductive or capacitive. Mk II SineWave dimmers are able to dim loads as various as HMI luminaires, low wattage LEDs and neon. The elegant design features high density modular assembly. SCR modules are available for conventional needs.

## Matrix Mk II Touring Rack

Matrix Mk II technology is rolling onto European stages in a touring rack format! Most popular are the 24-, 36- and 48-dimmer racks, but custom built racks are available on request, featuring SCR or ETC's renowned SineWave dimmer modules.

These touring versions offer options like RCD per module or RCBO per channel, relays, constant power and the choice between SineWave or SCR technology. With dimming module sizes from 3kW to 10kW, mix and match to suit your needs and budget. Like the installed version, the touring Matrix MK II has been developed to expand the system options, providing extra design headroom to increase density and efficiency, offering more power rating options and protection variants by utilising higher performance processors and also integrating more fully with ETC protocols and control systems. The Touring Rack includes the advanced dimmer monitoring and setup features expected in a high specification system — including the ability to configure the dimming system through a web-style browser window, making the process simpler and more efficient.





**MATRIX MK II RACKS**

Swing Frame or standard racks

Front access installation with easily accessible line, load and control terminations

Single feed standard; multiple feeds optional

Rated for 100,000 AIC with listed modules

Direct Ethernet control signal input as well as two DMX inputs

**MATRIX MK II DIMMER MODULES**

4 x 3kW, 2 x 5kW and 1 x 10kW SineWave modules

6 x 3kW, 4 x 3kW, 3 x 5kW, 2 x 5kW and 1 x 10kW SCR modules

6 x 16A and 4 x 16A relay modules

Constant Power and Emergency modules also available



24, 36 and 48 dimmers

SCR and SineWave dimming technology

Relay, non-dim and HMI switch modules

DimStat reporting with optional Dynamic Load sensing

Wieland patch bays

Socapex or Harting style multiple connector outputs

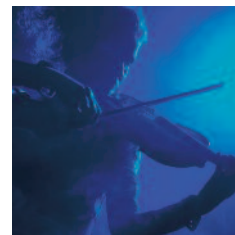
Auxiliary connector panels

Power mains inlets as Power-Lock, CEE and other types

Custom rack solutions on request



# Distributed



## SineWave Distributed Dimming

The quiet power and convenience of ETC's distributed SineWave dimmers. Silence at the dimmer, silence in the luminaire. Put your dimming anywhere you need it—closer to the audience, closer to the luminaire—and easily add more as your lighting system requires. Gain networked SineWave dimming on the spot; dimming and DMX distribution all in one! Integrated DMX allows you to multitask. Silently dim your noisiest lamps, run your automated luminaires. SineWave dims any dimmable load—resistive, inductive or capacitive. (Dim ballasted HMI fixtures, low wattage LEDs and neon.)

ETC SineWave distributed dimming solutions offer completely silent dimming, convection cooling (no fan noise) and network capabilities in a compact self-contained package. SineWave dimming produces a pure sine wave output for any lighting load and eliminates the inherent problems with forward and reverse phase control: noise and harmonics (less than 1% harmonic distortion).

Additional SineWave benefits: total short circuit and overload protection without breaker tripping. And SineWave extends lamp life by eliminating load switching and reducing peak voltage.

Small but robust, ETC SineWave distributed dimming is available in three series: PowerBars for mounting on truss or pipe; Suitcase modules for flexibility in repertory applications; and Shuttle series for mounting on telescopic hoists. These compact devices can be safely located in intimate studio and theatre environments—adjacent to performers, video and audio equipment—because SineWave devices generate no noise in sound systems.



### SUITCASE SC SERIES

Floor/wall/truss mount applications

Ideal for repertory theatres requiring true portable dimming

Choice of CEE 16A, Schuko and NF connector outlets

Flying cable lead feeder and multi-pole connector feeds

3 phase 4-wire plus ground feeder and single phase options

DMX in and through connectors

Integral node delivers DMX via Ethernet (optional)

### SHUTTLE SH SERIES

Designed to mount on telescopic hoists

Compact single 5kW or 2kW dimmer

2kW version offers Powercon input and output connectors



### POWERBAR PB SERIES

Optimised for truss mount applications

6 channel cyc option switchable between dual 2.5kW and single 5kW

Choice of CEE 16A, Schuko, UK and ND connector outlets

Flying cable lead feeder and multi-pole connector feeds

3 phase 4-wire plus ground feeder and single phase options

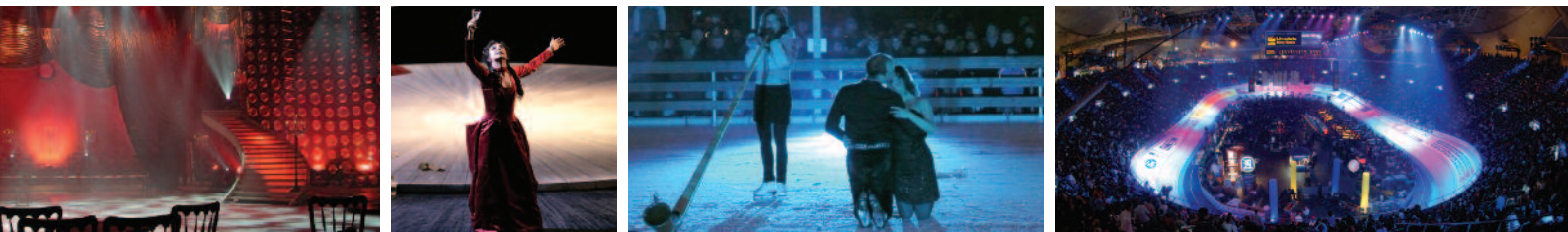
DMX in and through connectors

Integral node delivers DMX via Ethernet





# Alex M



*Introducing Alex M from ETC!* Recognised in theatres, TV studios and by rental companies in Germany for many years, Alex M is now entering the wider European scene.

## Alex M Portable Pack

Versatile and capable, this 19" 3U rack mount dimmer pack can cope with practically any load, anywhere. A large 240x128 pixel LCD display interface, four buttons and an encoder wheel enable the creation of presets or chases, even in the absence of a control desk. With individual DMX addressing, preheat level, five dimming curves, hold and fade times and RCD option per pack, the Alex M Portable Pack is a real little trouper. And a 400µS filter spec makes it ideal for TV studios. To dim capacitive loads (fluorescents), choose Alex Mx with electronic base load.

## Alex M Touring Rack

Rental companies appreciate the flexibility that the Alex M Touring Rack offers, with its choice of 2.3kW and 5kW packs. Custom racks can be built to order, with or without hot patch, and with load connectors of your choice (usually CEE 16A, Schuko or NF [French]) for the 2.5kW pack or CEE 32A for the 5kW version. Check out the integrated hour counter—you'll be amazed how long Alex M runs without maintenance!



### ALEX M AND MX PORTABLE PACKS

19" 3U rack mount enclosure

12 x 2.3 kW and 6 x 5 kW packs with optional RCD protection

Large LCD display showing status and key parameters

Five dimmer curves: linear, halogen, fluorescent, logarithmic, non-dim

400µs TV spec filtering

DMX512 and analogue input option

Output via Harting or Socapex multipole connectors (2.3kW) and CEE 32A connectors (5kW)

Alex Mx version with electronic base load for fluorescent loads

### ALEX M ROLLING RACK

Choose your own mix of 2 Alex M dimmer packs

Customer-specific output solutions (such as grounding sockets)

Power distribution includes RCD protection per pack and aux power outlet

### ALEX M TOURING RACK (CUSTOM)

Choose your own mix of Alex M dimmer packs

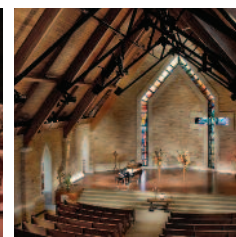
Hotpatch option

Customer specific output connector option

Power distribution includes RCD protection per pack and aux power outlet



# Sensor3



## Introducing Sensor3 Power Control Systems

Superior design for better performance. ETC's Sensor3

Power Control systems are workhorses for venues ranging from schools to TV studios, theatres, concert halls and opera houses worldwide, adapting to today's hybrid rigs and rapidly changing lighting needs.

With CEM3 (Control Electronics Module) control, you are assured optimised power handling using options such as 16-bit control, ultra vigilant voltage regulation and plug-in modules that have been engineered for tool free, effortless replacement. Designed to interface fully with an ETC Net3/ACN network, the Sensor3 system provides the most up to date control input, with direct feedback to the lighting control desk.

Sensor3 ThruPower modules allow free mixing of dimming, switching and manual bypass on a circuit by circuit basis without having to replace hardware in your Sensor system. Sensor's plug-in modularity allows for more configurability, customisation and easy maintenance. To meet your system's unique needs, Sensor modules are available in a wide variety of risetimes and ratings.



**SENSOR3 INSTALLATION RACK**

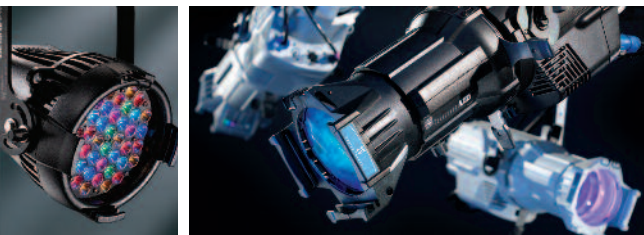
- 12, 24, 36 and 48 module configurations
- 24 to 96 dimmer configurations
- Front-access installation with easily accessible line, load and control terminations
- Innovative bussing design
- Single or three phase operation (ESR48 is three-phase only)
- 220V - 240VAC, 47/63Hz
- Single Pole and Neutral Disconnect/RCD versions available
- 22kA - 46kA Short Circuit Current Rating (SCCR)
- Single or dual tracking processor option
- Optional Power Board provides architectural control

**CEM3 CONTROL MODULE**

- Backlit LCD display and 6 button keypad
- Direct Ethernet control signal input as well as two DMX inputs (ETCNet2 or Net3/ACN native device)
- 128 presets with programmable fade times configurable across four rooms
- Emergency/panic interface
- Supports Advanced Features (AF) option
- Existing Sensor racks are upgradeable
- Compatible with ETC DimStat and ACN reporting features
- 16 bit control option



- Variety of modules to meet all needs
- 1.3kW, 2.3kW, 3kW, 5kW or 10kW ratings
- 225, 350, 400 or 600µS
- ThruPower triple function modules providing dimming, relay or constant power functionality – all in one module



## ETC x7 Color System LED fixtures

Go beyond effects lighting and give your stage, studio, or architectural space effective LED lighting that can be trusted in every production application – from key, front, fill and side light to colour washes and cyc lighting. ETC LED fixtures perform to your demanding standards for warm and cool white light, soft tints, rich pastels and intense primary colours, all with the energy efficiency and long life you get from LED technology. The x7 Color System proportions an unprecedented array of seven LED colours into a single luminaire. Compared to other LED fixtures that use just three or four colours, ETC LED's produce a broader, richer spectrum of whites and a more vivid, nearly limitless colour palette. While conventional RGB illumination renders coloured objects unnaturally red, green or blue, ETC's unique seven colour system imparts natural tones to people and objects, making these the only LED luminaires capable of interacting seamlessly with your conventional lights. Reduce gel inventory and gel replacement time. Use an ETC desk to control your LED fixtures instead – selecting from a kaleidoscopic range of hues and colour temperature settings to suit your needs. ETC fixtures unlock LED technology's true potential, giving you the power savings and colour changing capabilities of LEDs, with spectacular, incandescent quality light.

### ETC X7 COLOR SYSTEM LED FIXTURES

Seven colour LEDs providing the most complete color spectrum in any LED fixture

High brightness, intense colour light with low power consumption

The permanence of a 50,000-hour source

Superior control electronics for smooth low-end dimming

IP 20 rated [Desire XT – IP66 rated]

1°C to 43°C ambient operating temperature

100V to 240V 50/60Hz internal power supply

Power in and thru (Source Four LED and Desire lines)

DMX in-and-thru via 5-pin XLR connectors

Rugged all metal housing

### LED Fixtures

**Source Four LED Lustr+**

**Source Four LED Tungsten**

**Source Four LED Daylight**

**Desire D40**

**Desire D40XT**

**Desire D60**

**Desire Studio D40**

**Desire Studio D60**

**Selador Classic Lustr**

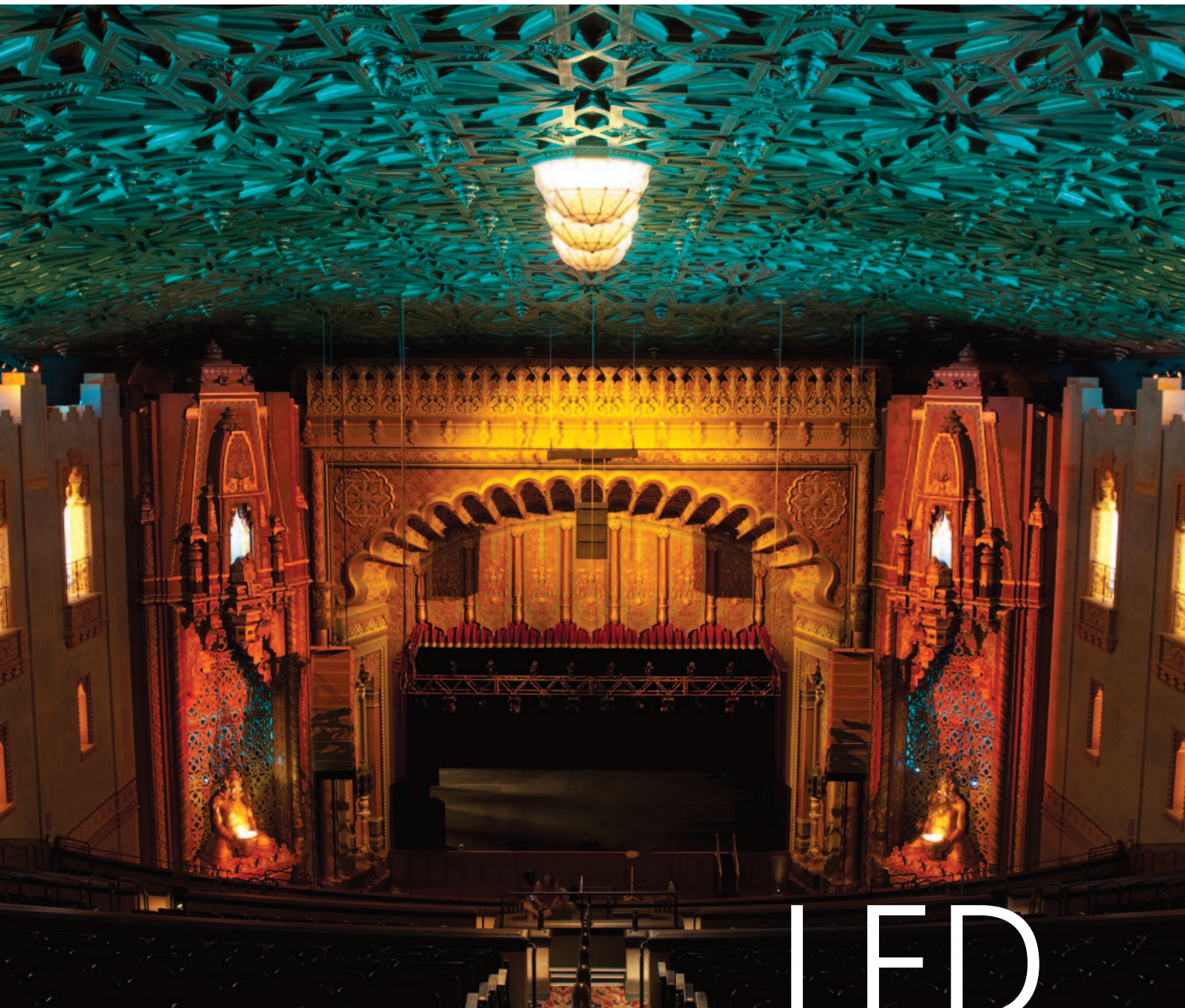
**Selador Classic Paletta**

**Selador Classic Vivid-R**

**Selador Classic Vivid Fire**

**Selador Classic Vivid Ice**

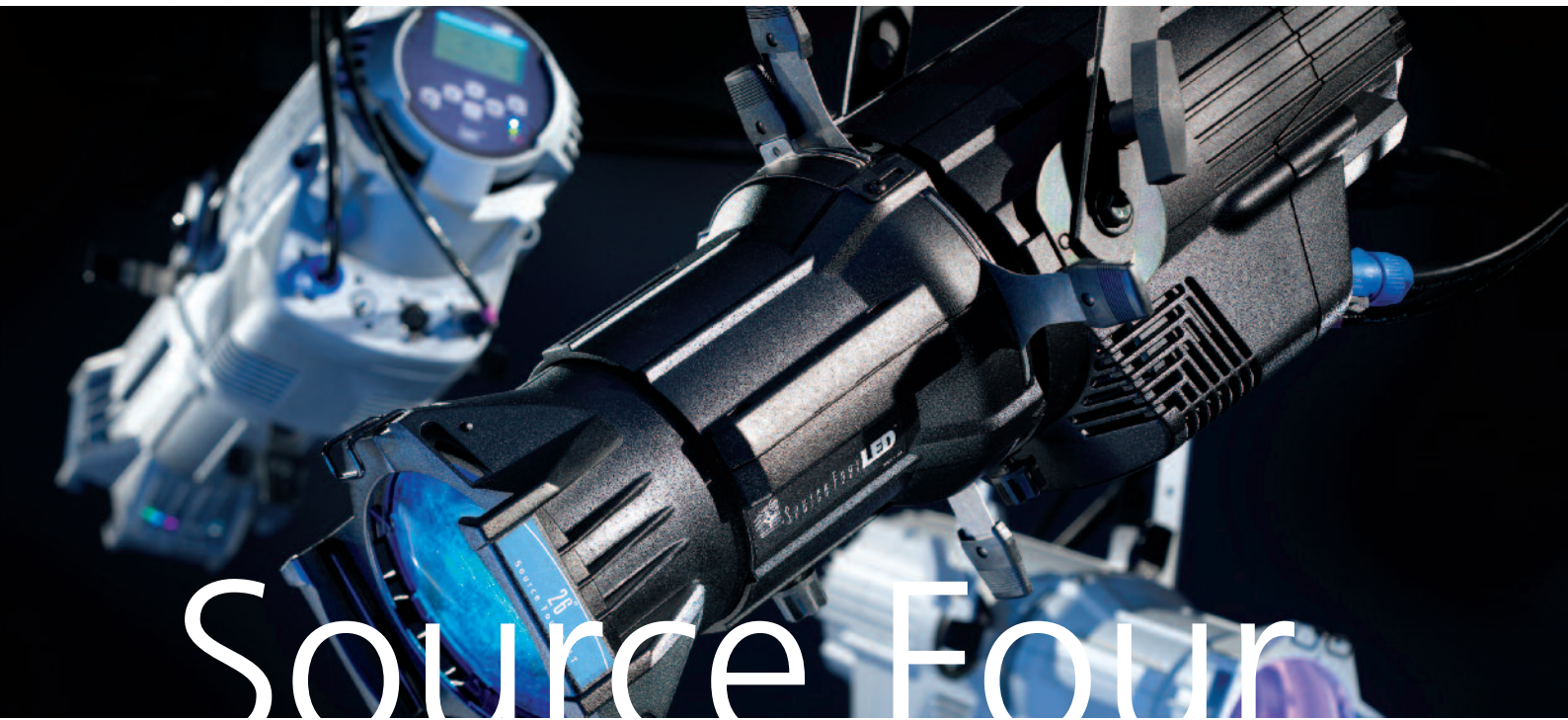




## Fox Theatre

Oakland, California, USA

Closed for over 40 years, the historic Fox Theatre was recently renovated and restored to its former artistic splendour, with the added mission of going 'green'. ETC's Selador Series LED fixtures were chosen to highlight the theatre's vast spaces, high ceilings and intricate decor, which includes ornate Moorish motifs. Thanks to the flexibility of the x7 Color System, the Selador fixtures impart rich, bold colour to the architectural details while transitioning through hues for further dramatic effect. As the audience enters, the Selador lighting gradually changes, eventually enveloping the space in a deep indigo during performances. Lush, colourful lighting – while saving on energy costs – achieved with Selador LED technology.



# Source Four



## Source Four LED

*ETC's latest layer of light.* ETC designed the Source Four LED with the heart of a Source Four® conventional luminaire and the brain of a Selador Desire fixture. The LED fixture includes all of the functions that make Source Four the most popular spotlight brand in the world. Add to that a Desire-style user interface and the unmatched colour mixing capability of the x7 Color System and you get a Source Four LED with a superior beam quality that adds the right layer of light to even the most professional theatre venue.

### **It's a Source Four.**

Your short- and long-throw needs are covered by the Source Four LED — it's available in the same range of beam angles as traditional Source Four luminaires, from 5° to 90° and in zoom versions too. Source Four LED fixtures accept all of the Source Four family's accessories and lenses and use the same barrel. They're also about the same size as conventional Source Four luminaires, making them the right fit for your lighting rig.

### **The sharpest gobo projection.**

The Source Four LED's image rendering is so clean and crisp that you'll know right away it's a Source Four. ETC's Source Four EDLT (Enhanced Definition Lens Tube) is the perfect companion to your Source Four LED, making your gobo projections even crisper. And because there's low heat at the gate, you can even produce your own gobos on standard laser printers.

### **The right light.**

You've never seen colour like this from a profile spot. Up to seven colours of LED emitters are combined onto one fixture for nearly limitless colour mixing, thanks to the x7 Color System. Source Four LED luminaires also feature a smooth fade to black that outperforms other LEDs. The Source Four LED's lumens per watt output leaves other fixtures green with envy. (Several of those LED brands don't even perform as well as the incandescent Source Four.) Source Four LEDs outperforms the competition on consistency as well. They are designed to maintain their brightness and colour, even as they heat up. Winner of the 2012 ABTT Lighting Product of the Year award.

## SOURCE FOUR LED LUSTR+

[www.etccconnect.com/s4LEDlustr](http://www.etccconnect.com/s4LEDlustr)



LED luminaire with 60 Luxeon® Rebel emitters

50,000-hour LED life

x7 Color System array

Accessory slots for gobo, drop/in iris, motorised effects and soft focus diffuser media

Power and DMX in/thru connections for easy setup

Multiple control options, including RGB, HSI, strobe, and console-free Master/Slave mode

15-bit virtual dimming engine for smooth fades and minimal color shift during dimming

CE compliant and IP20 rated for dry location use

## SOURCE FOUR LED TUNGSTEN

[www.etccconnect.com/s4LEDtungsten](http://www.etccconnect.com/s4LEDtungsten)



LED luminaire with 60 Luxeon® Rebel emitters

50,000-hour LED life

3000K warm-white emitter array

Accessory slots for gobo, drop/in iris, motorised effects and soft focus diffuser media

Power and DMX in/thru connections for easy setup

Multiple control options, including RGB, HSI, strobe, and console-free Master/Slave mode

15-bit virtual dimming engine for smooth fades and minimal color shift during dimming

CE compliant and IP20 rated for dry location use

## SOURCE FOUR LED DAYLIGHT

[www.etccconnect.com/s4LEDdaylight](http://www.etccconnect.com/s4LEDdaylight)



LED luminaire with 60 Luxeon® Rebel emitters

50,000-hour LED life

5600K cool-white emitter array

Accessory slots for gobo, drop/in iris, motorised effects and soft focus diffuser media

Power and DMX in/thru connections for easy setup

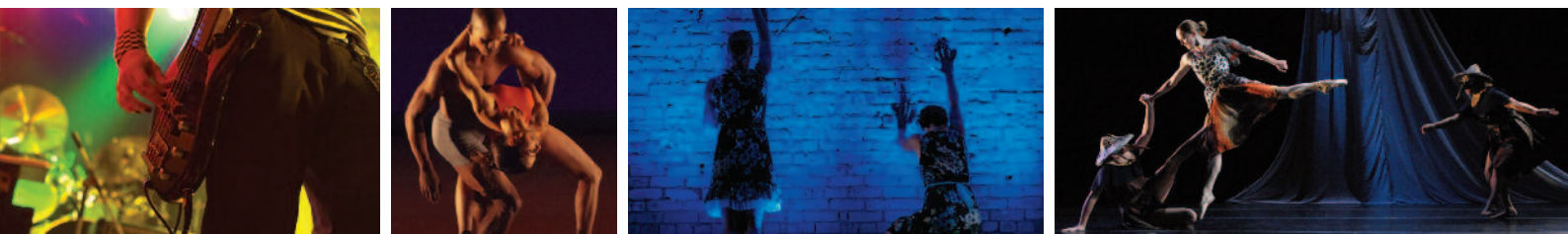
Multiple control options, including RGB, HSI, strobe, and console-free Master/Slave mode

15-bit virtual dimming engine for smooth fades and minimal color shift during dimming

CE compliant and IP20 rated for dry location use



# Desire



## Desire x7 LED Luminaires

Winner of 2011 WFX award for best lighting product. ETC has expanded the acclaimed Selador® LED line with a series of high performance luminaires: Desire. With Desire, producers and technicians have even better professional tools to achieve brilliant, high quality and energy saving lighting — indoors and outdoors. ETC's Desire line offers three versions: the bright D40 with 40 LED emitters, the IP66 rated D40XT for outdoor use, and the super bright D60 with 60 emitters. The luminaires feature Selador's x7 Color System, which uses up to seven colours of emitters to provide the widest colour gamut possible from LED fixtures. The x7 light renders scenery, textiles, and people beautifully and realistically — emulating the gel colour light favoured by lighting professionals. And every Desire fixture is factory calibrated to ensure that fixtures added to existing inventory match as closely as possible.

The Desire user interface offers Quick Setup options to simplify getting started. The *Stage*, *High-Impact*, *XT* (Exterior)/Architectural, *General* and *Studio* settings quickly configure the luminaire to your specific task. You can further tailor the light to your needs by choosing specific profile and performance settings. Desire luminaires can be controlled from a DMX controller — like an ETC lighting desk — or on the back of the fixture via stand alone control functions.

*Colour flexibility.* Desire's DMX profile selection (RGB, HSI, HSIC, Direct, and Studio) lets you choose the control personality that is best for any programming situation. The *Red Shift* option allows Desire fixtures to mimic the colour shift in a tungsten fade, and the *Plus 7* setting adds precision control over individual LED colours to the more intuitive control modes like HSI and RGB. Using the built in colour picker on ETC lighting control desks, you can quickly modify the colour to get the exact shade you want. The best of all control worlds.

## DESIRE D40

[www.etconnect.com/desireD40](http://www.etconnect.com/desireD40)



Desire D40 Vivid



Desire D40 Lustr+

LED luminaire with 40 Luxeon® Rebel emitters

Four arrays: Vivid, Lustr®, Fire, and Ice

IP20-rated for indoor use

50,000-hour LED life

Power and DMX in/thru connections for easy setup

Easy control interface with multiple modes and fixture settings

Uses standard 190mm PAR accessories

Primary field angle of 17°

Round and oblong beam diffusers available

Fan free for acoustically sensitive installations

## DESIRE D40 XT

[www.etconnect.com/desireD40xt](http://www.etconnect.com/desireD40xt)



Desire D40XT Vivid



Desire D40 XT Lustr+

LED luminaire with 40 Luxeon Rebel emitters

Four arrays: Vivid, Lustr+, Fire and Ice

IP66 rated for exterior, wet-location use

Power and DMX in/thru connections for easy setup

Easy control interface with multiple modes and fixture settings

50,000 hour LED life

Primary field angle of 17°

Secondary lenses available for multiple beam-spread options

## DESIRE D60

[www.etconnect.com/desireD60](http://www.etconnect.com/desireD60)



Desire D60 Vivid



Desire D60 Lustr+

Brightest variant in Desire family

LED luminaire with 60 Luxeon Rebel emitters

Four arrays: Vivid, Lustr+, Fire and Ice

Power and DMX in/thru connections for easy setup

Easy control interface with multiple modes and fixture settings

Easy access slots for secondary lenses

Primary field angle of 17°

Secondary lenses available for multiple beam-spread options



# Desire



## Desire Studio LED Luminaires

*The right white light.* Selador Desire Studio LED luminaires are ETC's new white light fixtures designed expressly for broadcast, film, video, and stage use. *The right bright light:* The Studio line comprises the D40 series and the IP66 outdoor rated D40XT, both with an array of 40 Luxeon® Rebel emitters; and the D60, with a more powerful 60-emitter array.

The breakthrough Studio HD was developed in consultation with TV lighting experts. It starts with warm white and cool white LEDs to provide continuously variable colour temperatures, from 2700 to about 6500 degrees Kelvin. Five colours from the Selador x7 Color System are added to the colour array. Together they produce high quality white light for the most demanding professional lighting situations. The Studio HD gives the precise *colour of white light* the instant it's needed. Intensity, colour temperature and magenta/green levels can be adjusted and saved into a lighting console or right at the fixture at location shoots. Studio HD excels at illuminating people – creating a natural looking, photogenic light that can be fine tuned to skin tones, flattering and complementing all pigmentations. So the talent looks great, time after time.

When high-efficiency punch is more important than subtle colour control, the Desire range offers the Studio Tungsten and the Studio Daylight fixtures. Both were developed in response to international demand by lighting for specific colour temperature, non variable, high intensity LED light sources. The Studio Tungsten uses LEDs designed to produce white light at 3000 degrees Kelvin. The Studio Daylight is perfect for designers working in video, film or architectural situations requiring 5600 degrees Kelvin.



Desire Studio D40 HD



Desire Studio D40 Tungsten



Desire Studio D40 Daylight



Desire Studio D60 HD



Desire Studio D60 Tungsten



Desire Studio D60 Daylight

**DESIRE D40 STUDIO AND D60 STUDIO**

White light for high brightness applications

D40 Studio has 40 Luxeon Rebel LED emitter array

D60 Studio has 60 LED Luxeon Rebel LED emitter array

D40 and D60 Studio available in three white light configurations: Studio Daylight, Studio Tungsten, Studio HD

All D40 Studios available in IP66-rated XT versions for exterior, all-weather use

Native field angle of 17°

25°, 35°, 45° and 75° round field diffuser lenses and 20°x40°, 30°x70° and 35°x80° oblong diffuser lenses available

User friendly control interface with multiple modes and fixture settings for stand-alone operation

Power and DMX-In and Thru

Full RDM capability

Up to 10 fixtures may be linked via power in/thru connectors per 15A circuit

'Studio' control mode allows stand alone operation with no external DMX control required

**DESIRE STUDIO HD**

D40 and D60 configurations

Colour temperature and tint variable white light with added x7 spectrum

High definition white light (great in person and on camera)

**DESIRE STUDIO TUNGSTEN**

D40 and D60 configurations

For low power, high intensity tungsten like warmth

3,000K (CRI-90) tungsten LED emitters

**DESIRE STUDIO DAYLIGHT**

D40 and D60 configurations

High volume single colour 5600K light output

Replaces high wattage HMIs



### Lustr LED fixtures

Pure, clean white light. Lustr is the all round theatre performer in the Selador Series. Think watercolours: warm or cool white light slowly evolving into soft tints and then into pure saturated colour. In Lustr, the Selador x7 Color System is optimised to produce theatrical quality whites and tints that render skin tones naturally (indispensable for HD TV and film production)—while still creating the deep colours that only LEDs can make.

In key, fill and front light applications, Lustr provides a soft beam of light that blends beautifully with the Source Four® luminaires in your lighting system. Lustr's subtle tinting and strong colour capabilities are the perfect solution for lighting scenery and creating powerful color washes.

Finally—bright light, in colour or in white. Broadcast studios and theatres will love the total package performance of Lustr.

### Paletta LED fixtures

A riot of colour. Paletta is the jewel tone superstar in the Selador Series, providing a broad colour palette for stage washes, cycs and scenery lighting. In its own unique housing, Paletta offers theatre and broadcast lighting designers an amazing assortment of rich, full colours in a low profile source—a perfect colour changing companion to your Source Four luminaires. Paletta also boasts the lowest energy consumption of the Selador family, affording you the green minded energy savings and longevity of LED technology.

Use the powerful colour handling functionality of an ETC lighting control system to easily match Paletta's light to your favourite gels from any major manufacturer—or adjust the x7 System to create your own signature palettes.



## SELADOR LUSTR

[www.etconnect.com/lustrCE](http://www.etconnect.com/lustrCE)



x7 Color System optimised for white light and tinted colours

Designed for medium throw distances where soft blending is important: studio key, fill and wash lighting; tinted stage washes

Frosted optics for a soft beam pattern like a fresnel

High efficiency 2.5W LUXEON Rebel emitters for long life and maximum energy savings

Superior control electronics for smooth low end dimming

IP20 rated

1°C to 43°C ambient operating temperature

Universal 100V to 240V 50/60Hz internal power supply

DMX in-and-through via 5-pin XLR connectors

Rugged all metal extruded housing

Available in black and optional anodised colours

Available in 11, 21, 42 and 63 unit versions

Double yoke option stacks two units for space efficient coverage

CE compliant

## SELADOR PALETTA

[www.etconnect.com/palettaCE](http://www.etconnect.com/palettaCE)



x7 Color System optimised for a wide gamut of deep, rich colours

Designed for medium throw distances: cycs and scenery, architectural wall washes, broad stage washes

Blended for uniformity and a soft beam pattern

High efficiency 2.5W LUXEON Rebel emitters for long life and maximum energy savings

Superior control electronics for smooth low end dimming

Rugged all metal extruded housing

IP20 rated

1°C to 43°C ambient operating temperature

Universal 100V to 240V 50/60Hz internal power supply

DMX in-and-through via 5-pin XLR connectors

Available in black and optional anodised colours

Narrow 12.7mm deep profile fits in small spaces

Available in 11, 21, 42 and 63 unit versions

Double yoke option stacks two units for space efficient coverage

CE compliant



# Selador



## Vivid LED fixtures

Shade your eyes. Vivid is the colour and intensity powerhouse in the Selador Series x7 Color System. Go bold with Vivid—vibrant LED lighting when you need serious colour punch. These fixtures are designed to give you the highest centre beam brightness and robust colour. You get the brilliant colour that you expect from an LED, with the fierce beam qualities of a PAR.

As the high candela member of the Selador family, Vivid can be used wherever you need that extra kick of strong, deep colour. And with the low heat output of the Selador Series, you can have your colours blazing without ever overheating your talent. Bright, dramatic and energy efficient, Vivid is a perfect fit for large scale events, broadcast and installations.

## Vivid Fire and Vivid Ice LED fixtures

Vivid Fire and Vivid Ice: Two new ETC luminaires that combine the best that LED technology has to offer with the unique innovations of the Selador Series x7 Color system. These intense new colour machines are also brilliant 'green' lights—producing high wattage colour with low wattage LED efficiency. Used together in your lighting plot, the Vivid Fire and Ice fixtures form a powerhouse of theatrical lighting possibility.

### Vivid Fire

Fire your imagination. Stage your passions. There's no red like an LED red and Vivid Fire is a compact red machine. But not only red. Vivid Fire adds other warm colours from the Selador x7 array to produce a broad range of hot house hues from golden straws and ambers to intense pinks and magentas to deep ruby reds.

### Vivid Ice

Cool blues. Lush light. Sometimes blue LEDs don't know their own strength as they pump out maximum rich blue light at minimum wattage. Vivid Ice harnesses the power of LED blue by combining the cool hues of the x7 Color System to produce colours used in every stage lighting plot: daylight and dusk blues, moonlight and indigos, or gentle lavenders and calming greens.

## SELADOR VIVID

[www.etconnect.com/vividCE](http://www.etconnect.com/vividCE)



x7 Color System optimized for a range of deep, intense colours

Designed for long throw applications: large cycs, stage washes, sidelight and box-boom washes, high impact architectural washes

Clear optics for a direct and strong beam quality like a PAR

Superior control electronics for smooth low-end dimming

IP20 rated

1°C to 43°C ambient operating temperature

Universal 100V to 240V 50/60Hz internal power supply

DMX in-and-through via 5-pin XLR connectors

Rugged all metal extruded housing

Available in black and optional anodised colours

Available in 11, 21, 42 and 63 unit versions

Double yoke option stacks two units for space efficient coverage

CE compliant

## SELADOR VIVID FIRE AND ICE

[www.etconnect.com/fireandiceCE](http://www.etconnect.com/fireandiceCE)



x7 Fire colour mix for warm and 'hot' hues

x7 Ice colour mix for broad range of cool tones

High intensity, low wattage output

Designed for medium throw distances

Broad stage washes

Blended for uniformity and a soft beam pattern

High efficiency 2.5W LUXEON Rebel emitters for long life and maximum energy savings

Superior control electronics for smooth low end dimming

Rugged all metal extruded housing

IP 20 rated

1°C to 43°C ambient operating temperature

Universal 100V to 240V 50/60Hz internal power supply

DMX in-and-through via 5-pin XLR connectors

Available in black and optional anodised colours

Available in 11, 21, 42 and 63 unit versions

Double yoke option stacks two units for space efficient coverage

CE compliant



## ETC Source Four® luminaires

ETC's Source Four lighting fixtures are the first choice of entertainment lighting professionals worldwide. No other lights provide such lighting punch while keeping heat generation to a minimum. For almost 20 years, ETC has pioneered green lighting by replacing inefficient 1000W fixtures with our better performing 375W, 575W and 750W HPL-powered Source Four fixtures — providing radical energy savings. And Source Four optics are unsurpassed in imaging excellence. These are the world's best lights — with more than 3 million units shining brightly in entertainment venues across the globe — outperforming and outlasting all others.

### *The evolution of brilliance continues...*

- 1992 The Source Four ellipsoidal spotlight makes its debut, stunning the lighting world and garnering the LDI Best Entertainment Lighting Product of the Year.
- 1996 The Source Four jr takes the TCI Lighting Product of the Year award.
- 1998 The Source Four Zoom wins the LDI Best Entertainment Lighting Product.
- 1999 The genre bending Source Four PARNel receives the ESTA Dealer's Choice Award for Equipment.
- 2004 ETC's quiet moving light for theatre, the Source Four Revolution®, wins both the prestigious EDDY Product of the Year Award and the ABTT Lighting Product of the Year Award.
- 2006 ETC offers adds more field angles — the 14°, 70° and 90° — to the Source Four family, plus the EDLT lens tube option for stunning contrast and crispness.
- 2008 ETC goes even greener with introduction of Source Four 70W HID in its architectural line.
- 2011 ETC debuts the much demanded Source Four Fresnel fixture, which wins the PLASA Members Choice Award at LDI. At the same time, ETC introduces the long awaited Source Four XT, a Source Four for the outdoors [see Architectural chapter].
- 2012 ETC launched Source Four LED in the Spring and won the ABTT Lighting Product of the Year award.

### Source Four family

- Source Four Revolution**
- Source Four Revolution modules**
- Source Four**
- Source Four jr**
- Source Four 14°**
- Source Four 70°**
- Source Four 90°**
- Source Four EDLT option**
- Source Four Zoom**
- Source Four jr Zoom**
- Source Four PAR EA**
- Source Four PAR MCM**
- Source Four PARNel**
- Source Four Fresnel**
- Source Four MultiPAR**



# Source Four

## *Oliver!*

Theatre Royal, Drury Lane, London, UK

The hit revival of the musical *Oliver!* took London's West End by storm, racking up record breaking ticket sales. Paule Constable's lighting design evoked the magic and moods of Charles Dickens' timeless story and created stunning visual displays. Her elaborate light plot included more than 150 conventional Source Four luminaires and 50 Source Four Revolution moving lights to achieve many of its spectacular effects. And to control this elaborate mixed media rig, Paule chose ETC's award winning Eos desk.

Photo © Michael Le Poer Trench



# Revolution



**Source Four® Revolution®** The Revolution of brilliance. There has never been a moving light like this—designed expressly for the needs of theatre. So versatile yet so affordable, so quiet and reliable, and best of all, so quintessentially and brilliantly Source Four. Winner of the 2004 EDDY and ABTT Product of the Year awards, the Source Four Revolution brings automated lighting to everyone.

Revolution offers maximum performance at an affordable cost. Every venue—from high schools to local theatres to West End shows—can have the power of automated lighting without compromising quality. The Revolution is also the brightest Source Four yet.

With ingenious patented features like a QXL quick exchange lamp and optional effects modules, the Revolution saves you on maintenance and money, while accessing a mother lode of creative lighting effects. Every Revolution has a 24-frame colour scroller based on Wybron's industry standard Coloram. That means fast and highly accurate colour changes every time.

Modularity. Design your Revolution to your own specifications and budget. Each Revolution features two innovative module bays. Pick the module you need. Revolution's Shutter Module makes the luminaire a true four-blade framing spotlight. The Iris Module allows you to take your 35° soft edge wash beam down to a 2.5° pin spot in just one cue. The Static Wheel Module is perfect for dichroic colours or break-up gobos. And finally, the Rotating Wheel Module lets you index linear gobos right into place or do continuous rotation for great effects. The best part about Revolution's modularity—if you don't need a particular module, you don't have to buy it.

## SOURCE FOUR REVOLUTION

[www.etconnect.com/revolutionCE](http://www.etconnect.com/revolutionCE)



Automated lighting with superior Source Four quality light output and optics

540° pan/270° tilt

750W QXL (Quick eXchange Lamp), based on acclaimed HPL filament design, for the warm tones and colour rendering of an incandescent source

Patented lamp base for fast lamp change out without opening fixture housing or disturbing settings

15-35° zoom capability

Beam edge control

Exclusive QuietDrive automation eliminates motor noise

24 frame capacity gel cartridge based on the Coloram for true 'Wybron inside' performance

On board dimming and other electronics adapt automatically to global voltages and frequencies

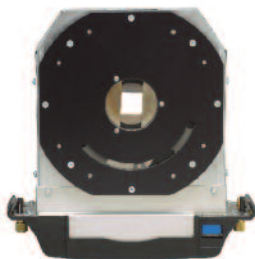
Automated Internal Media Frame allows insertion of conventional diffusion filters or extra gel colour into beam whenever desired

Optional modularity for greater beam control



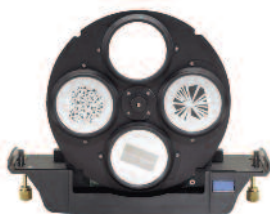
## SOURCE FOUR REVOLUTION MODULES

[www.etconnect.com/revolutionCEmodules](http://www.etconnect.com/revolutionCEmodules)



Shutter Module

Iris Module

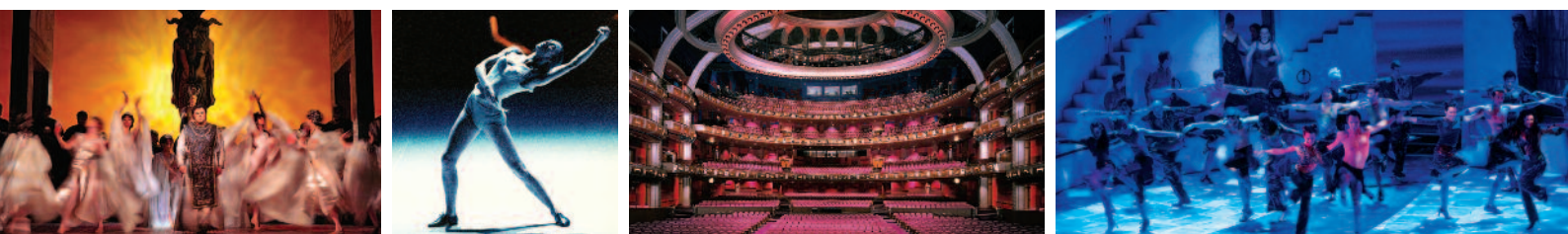


Static Wheel Module

Rotating Wheel Module



# Source Four



## There's only one Source Four®

The luminaire that changed the lighting industry. Source Four combines the energy-saving power of the patented HPL lamp, with a dichroic reflector and optical-quality lenses, for the coolest beam on the market. That means your gobos and shutters last longer and your performance space stays cooler.

No other light offers such optical brilliance. Source Four's revolutionary technology gives you a clean white beam for unequalled imaging, crisp gobo projection and a bright, even field. It's the favourite luminaire of lighting designers everywhere.

Rated for up to 750 watts, the Source Four punches through saturated colours and offers great long throw performance. Ultra-efficient for more lumens per watt, at 750W the Source Four literally outshines 1000W profile spotlights. No point comparing—there are no other luminaires in its class.



## SOURCE FOUR

[www.etconnect.com/s4CE](http://www.etconnect.com/s4CE)



5°, 10°, 14°, 19°, 26°, 36°, 50°, 70° and 90° field angles

Rated up to 750W

Super efficient HPL lamp

Faceted dichroic reflector removes 90% of IR heat from beam

Interchangeable lens tubes

Rotating barrel  $\pm 25^\circ$

Three plane stainless steel shutterblade assembly

Tool free lamp adjustment

Insulated rear handle

Rugged die cast aluminium construction

EDLT lens option in 19°, 26°, 36° and 50° angles

Custom colours available

## SOURCE FOUR JR

[www.etconnect.com/s4jrCE](http://www.etconnect.com/s4jrCE)



26°, 36° and 50° fixed field angles

Rated up to 575W

Super efficient HPL lamp

Interchangeable lens assemblies

Faceted dichroic reflector removes 90% of IR heat from beam

Two plane stainless steel shutterblade assembly

Tool free lamp adjustment

Rugged die cast aluminium construction

Custom colours available



# Source Four



## Source Four® 14°, 70°, 90°

More tools for your Source Four workbox! Now there's a Source Four field angle for every lighting throw distance. ETC's Source Four 14° gives you a powerful alternative for front of house positions where a 10° field would be too small or 19° too big. Ideal for performance venues where 9m to 21m throws are encountered.

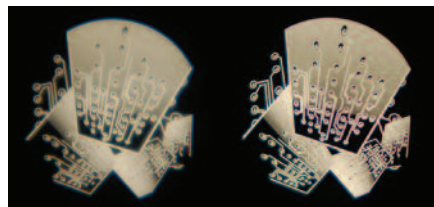
We have you covered – with the brightest short throw luminaires available! The Source Four 70° and 90° luminaires give you ultra wide spotlighting for positions with low trim heights, like low ceilings or back-of-set specials. Choose the 70° or 90° when you need more controlled light coverage than a wide angle wash, plus powerful gobo projection from a very short throw distance.

## Source Four EDLT

When your lighting situation requires the most precise optics for projecting gobo images or logos, the Source Four Enhanced Definition Lens Tube (EDLT) option is an invaluable addition to your Source Four inventory. The EDLT attaches easily to any new or existing Source Four body and is available in 19°, 26°, 36° and 50° field angles. Without compromising on light output, EDLT provides heightened sharpness and stunning contrast to images when the Source Four is used as a gobo projector. With the innovative EDLT option on your Source Four, the best spotlight available gets even better.

Seeing is believing: a side-by-side comparison of gobos projected with and without the EDLT demonstrates the clear difference.

Standard Source Four



Source Four with EDLT

## SOURCE FOUR 14°

[www.etconnect.com/s4CE](http://www.etconnect.com/s4CE)



14° field angle for intermediate throw applications

Precision dual aspheric glass lenses with high quality coatings

Heightened crispness and contrast

Rated up to 750W

All standard Source Four features

## SOURCE FOUR 70° AND 90°

[www.etconnect.com/s4CE](http://www.etconnect.com/s4CE)



70° and 90° field angle for short throw applications

Precision glass aspheric lenses with high quality coatings

Heightened crispness and contrast

Rated up to 750W

All standard Source Four features

## SOURCE FOUR EDLT OPTION

[www.etconnect.com/edlt](http://www.etconnect.com/edlt)



For 19°, 26°, 36° and 50° field angles

Heightened sharpness and contrast

Increased output

Advanced, dual aspheric lenses with anti-reflective coatings

Fits all new and existing Source Four bodies



# Zoom



## Source Four® Zoom

Up to 40% brighter than others' zooms! You don't have to compromise on brightness when you need the versatility of a variable focus ellipsoidal spotlight. This is the zoom for the most discerning international lighting professionals. Just one luminaire to achieve a variety of field angles, with all the advantages of the acclaimed fixed field Source Four: bright even field (even brighter than the fixed field units!), cool beam and amazing efficiency. The dichroic mirror means shutters and accessories stay cool and drop-in accessories are interchangeable with fixed field Source Fours. Rated up to 750W, Source Four Zoom gives you Source Four's crisp optics for excellent imaging and field quality with added field angle flexibility.

And ETC's patented one-handed zoom operation makes adjustments quick, simple and safe. Technicians can focus with one hand and hold the ladder with the other. And the unique lens tube door provides quick and easy access when you want to clean the lens assembly (tool free!).

## Source Four jr Zoom

If you're looking for the field angle versatility of a zoom ellipsoidal with the economy and compact design of a smaller luminaire, you're looking for the convenient Source Four jr Zoom. School stages, black-box theatres and budget-minded productions will find the jr Zoom to be a great solution for their smaller scale or short throw lighting needs. There's no compromising on quality either — Source Four jr Zoom boasts ETC's standard rugged luminaire construction and performance.

## SOURCE FOUR ZOOM

[www.etconnect.com/s4zoomCE](http://www.etconnect.com/s4zoomCE)



15-30° and 25-50° beam spreads available

Rated up to 750W

Super efficient HPL lamp

Faceted dichroic reflector removes 90% of IR heat from beam

One handed zoom operation

Field angle and focus scale markings

Rotating barrel  $\pm 25^\circ$

Three plane stainless steel shutterblade assembly

Tool free lamp adjustment

Easy access lens cleaning

Insulated rear handle

Rugged die cast and extruded aluminium construction

## SOURCE FOUR JR ZOOM

[www.etconnect.com/s4jrzoomCE](http://www.etconnect.com/s4jrzoomCE)



25-50° beam spread

Rated up to 575W

Super efficient HPL lamp

Faceted dichroic reflector removes 90% of IR heat from beam

Two plane stainless steel shutterblade assembly

Tool free lamp adjustment

Rugged die cast aluminium construction

Custom colours available



# PAR



## Source Four® PAR EA and MCM

Elegant, compact, efficient and flexible — this is no ordinary PAR can. ETC's Source Four PAR goes beyond with its rugged die cast aluminium construction and acclaimed Source Four lighting technology.

Changing beam angles is easy: Source Four PAR comes with a set of four snap-in lenses that mount in a cool, rotating ring. That also means no more reaching into a hot can with cracked porcelain sockets. And when you need a new lamp, just use your stock of Source Four HPLs (no need to carry a large inventory of expensive PAR64 lamps).

Source Four PAR's compact design means more units can be mounted on a pipe or fitted into a truck. Combined with reductions in power and cable requirements, Source Four PAR is perfect for touring. Source Four PAR is available in two versions: EA (Enhanced Aluminium) and MCM (Metal Cold Mirror). EA is a perfect PAR choice for 'normal' applications, but when your space requires the coolest performance environment, choose MCM, engineered with a cool beam as top priority.

## Source Four PARNel

With the PARNel, ETC introduced a new category of luminaire to the lighting world. Featuring the patented wave lens design and easy focusing knob, the PARNel lets you quickly access a range of 25° to 45° — a smooth, soft, symmetrical field that you can spot or flood like a pebble convex spot, but do even more with. ETC went beyond mere imitation and created a luminaire with softlight functionality and the awesome performance of a Source Four PAR. Awarded ESTA's Dealers' Choice Award for Equipment, the PARNel has taken its place on professional lighting rigs worldwide.



**SOURCE FOUR PAR EA**

Rated up to 750W

EA (Enhanced Aluminium) reflector

Super efficient HPL lamp

Interchangeable lenses  
(VNSP, NSP, MFL, WFL – standard; XWFL – optional)

Die cast faceted reflector

Die cast aluminium construction

Custom colours available

**SOURCE FOUR PAR MCM**

Rated up to 575W

MCM (Metal Cold Mirror) reflector for cool beam performance

Super efficient HPL lamp

Interchangeable lenses  
(VNSP, NSP, MFL, WFL – standard; XWFL – optional)

Die cast faceted reflector

Die cast aluminium construction

Custom colours available



Rated up to 750W

Enhanced Aluminium Reflector

Super efficient HPL lamp

25°-45° variable field focus

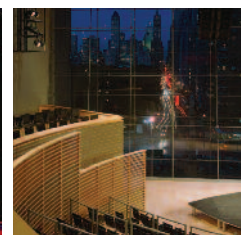
Easy spot to flood adjustment knob

Die cast faceted reflector

Die cast aluminium construction



# Source Four



## Introducing Source Four® Fresnel

*A Fresnel that's a Source Four!* Winner of the 2011 PLASA Members' Choice Product Award, ETC's

Source Four Fresnel gives you the soft focus lighting you love, with Source Four quality and efficiency. Lighting designers praise the controlled blending soft beam you can only get from a barn doored Fresnel. Our new luminaire combines the classic fresnel optical system with the HPL lamp technology that makes Source Four luminaires the professional choice. And like all Source Fours, this Fresnel is energy-saving: the 750W unit produces the same light output as others' 1000W Fresnels. *Your lighting rig is now complete.* Choose lamp wattage to suit your application and energy requirements—375W to 575W to 750W.

Our innovative socket and access door let you change the lamp from underneath the fixture—without breaking focus—saving time and trouble. ETC makes it simple to adjust the fixture from spot to flood, with a full sized zoom knob for better grip. Replace your old fresnels with ones built to last: Like all Source Fours, the ETC Fresnel is made of rugged die cast aluminium.

## Source Four MultiPAR

Available in 3-cell, 4-cell, and 12-cell versions! Another powerful step in lighting solutions for the entire stage, the ETC MultiPAR outstrips all

other batten type luminaires. We've applied the award winning optics of our Source Four PAR luminaire to a time honoured theatrical workhorse and made it into a lighting thoroughbred. Lamped with the HPL and using the space saving Source Four PAR design, this is a powerful next generation tool.

The Source Four MultiPAR in 3-, 4-, or 12-cell lengths offers excellence in light distribution, energy savings and ETC's knowledge and reputation for quality construction. The innovative design capitalises on the thermal management of the PAR reflector while still allowing easy access to the lamp without breaking focus.

We made the innovations we had always wanted to see in a batten, including Source Four level energy efficiency and light output, a beautiful field and the flexibility to change from three to four circuits (and vice versa!) for the MultiPAR-12.



## SOURCE FOUR FRESNEL

[www.etconnect.com/s4fresnel](http://www.etconnect.com/s4fresnel)



175mm aperture

Zoom range: 9°-52° beam angle; 20°-65° field angle

Barn door beam shaping

Rated up to 750W

Super efficient HPL lamp (same as all Source Fours, for common inventory)

Quick release socket enables easy lamp change

Full sized zoom adjustment knob

Sliding yoke mount for variable balance point

Rugged die cast aluminium construction

CE compliant

## SOURCE FOUR MULTIPAR

[www.etconnect.com/s4multiparCE](http://www.etconnect.com/s4multiparCE)



3-cell, 4-cell and 12-cell versions

Rated up to 750W

Enhanced aluminium (EA) reflector

Super efficient HPL lamp

Focus free lamp mounting

Interchangeable lenses  
(VNSP, NSP, MFL, WFL – standard; XWFL – optional)

Die cast faceted reflector with integral heat-sink fins

Extruded and die cast aluminium construction

Tool free lamp replacement

Hanging brackets or floor mount version optional



*The new Unison – Complete Control*

Building on decades of lighting innovation, ETC brings you the most comprehensive architectural control systems on the market. Lighting designers and specifiers swear by ETC products, used in thousands of venues around the globe, including theme parks, conference centres, casinos, restaurants, retail stores, museums, schools and theatres.

ETC drew on its history of expertise to expand and update the Unison control line. These innovative offerings – including Paradigm®, SmartLink®, and Mosaic – were developed with the same dedication to quality as ETC’s award winning control desks, luminaires and dimming.

As a pioneer in the development of open standards in networking, ETC believes that all of your lighting control system’s components should be interoperable. Unison draws on innovative core technologies for truly 21<sup>st</sup> century lighting functionality and building control: LinkConnect (freedom to wire control stations however needed), NetConnect (data plus power using Power over Ethernet and no external power supplies) and MeshConnect (wireless connectivity for portable touchscreen controls).

And of course, Unison systems—like all ETC products—are backed by ETC’s industry leading service promise. ETC technical support is a phone call away all day, every day, so your questions or concerns can be handled right now.

## Unison Paradigm

- LightDesigner software
- ControlDesigner software
- Wall-Mount Touchscreen
- Portable Touchscreen
- Handheld Touchscreen
- Architectural Control Processor (P-ACP)
- Control Enclosure (ERn)
- Dimming Enclosure (DRd)
- Unison Modules
- LinkConnect Station Power Modules
- Heritage Control Stations
- Heritage Console Station

## Unison Mosaic

- Unison Mosaic Tessera Panel Controller (MTPC)
- Unison Mosaic Show Controllers (MSC1 and MSC2)
- Unison Mosaic 1 and 2 Expansion Modules
- Unison Mosaic Remote Input/Output Modules (RIOs)
- Unison Mosaic Show Controller X (MSCX)
- Unison Mosaic Designer Software

## Smartlink

- SmartLink Architectural Control Processor (S-ACP)
- SmartLink Button Stations
- SmartLink TimeClock
- SmartPack Wall Mount with SmartLink [see Smart Solutions chapter]
- SmartSwitch with SmartLink [see Smart Solutions chapter]

## Source Four fixtures

- Source Four HID
- Source Four HID jr
- Source Four HID Zoom
- Source Four HID jr Zoom
- Source Four HID PAR
- Source Four HID PARNel
- Source Four XT



A paradigm shift in building control: total entertainment and architectural lighting control integration – with maximum green efficiency. Unison Paradigm masters any magnitude of venue or building: office buildings to theatres, hotels to conferences centres, museums to theme parks, and beyond.



# Mosaic



ETC's Mosaic Show Control brings landmarks, buildings and events to life – creating wonder and awe. From spectacular exterior lighting shows to dynamic colourful LED displays to ingenious waterworks and themed automated effects, the powerful but compact Mosaic system makes your technical and creative visions happen.



# Smartlink



Scale back your lighting control budget without scaling back quality — ETC SmartLink is the smart, affordable solution for smaller scale applications such as retail stores, restaurants and schools that want the convenience, elegance and ease of preset lighting looks — with simplified local control.

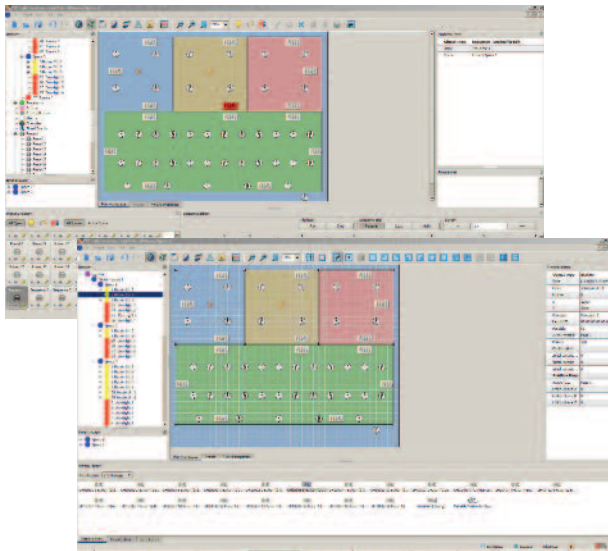


# Paradigm

**Unison® Paradigm®** *Dramatic lighting, dramatic efficiencies.* A new paradigm for control. Designed as a new way of thinking about building control, ETC's visionary Unison Paradigm system goes where none has gone before – fully merging architectural lighting control advances with entertainment lighting control technology. ETC brings our award winning expertise in both areas together to give you the best of both worlds.

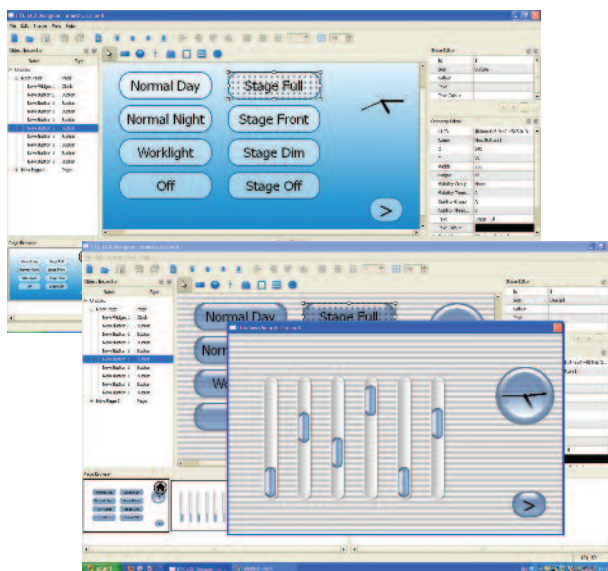
Paradigm delivers a new level of comprehensive control—sophisticated lighting and building systems integration. And it does so with unprecedented flexibility and simplicity: a green minded energy management system that capitalises on daylight harvesting, occupancy sensing and time schedules for maximum electricity and budget savings, combined with dynamic effects that make a venue exciting. Plus the power to speak fluently to different devices from different manufacturers over the same control system.

The Unison Paradigm family of products includes powerful software, elegant touchscreens, wall stations, modular control electronics, dimming and control enclosures and accessories to offer the most customisable and people friendly control systems available.



State of the art software for lighting and building control systems. LightDesigner represents a true shift in how lighting control and dimming systems are programmed, freeing the design team to create effective lighting control scenarios for day to day operations, special events and special effects. LightDesigner works the way you want it to, with effective pre-programming and simulation capabilities that allow you to visualise and test out changes to the lighting design, as well as access powerful, real time live control and live editing of your Unison Paradigm Control System.

Green light. LightDesigner's EnergyManager suite of features helps you harness maximum energy savings by using daylight harvesting (DaylightManager), occupancy sensing (OccupancyManager) and time based controls (TimeManager) simultaneously.



The face of the system—the look of your lighting controls. Companion to LightDesigner, ControlDesigner software gives you the tools to create the look of your Touchscreen pages and other user interfaces, pre-visualising your control interface. Free for download from ETC's website [www.etconnect.com](http://www.etconnect.com), ControlDesigner lets you choose from built in graphics or build your own as you develop unique interfaces ahead of time and load them when you are ready.

ControlDesigner's DesignView function allows you to create and edit control pages using extensive design tools, ensuring that each page has the look and controls you need, when you need them. ControlView lets you visualise and test each screen and action before uploading the design to the Touchscreens.

## WALL MOUNT TOUCHSCREEN

[www.etconnect.com/touchscreens](http://www.etconnect.com/touchscreens)



Paradigm®'s elegant Touchscreens are customised to your interior design – while putting complete lighting and building control at your fingertips. Available in wall mount, portable or handheld versions, all Touchscreens use high resolution, widescreen, colour liquid crystal displays that are bright and easy to read. Designed to your specifications with ControlDesigner software, the Touchscreen's intuitive graphics guide you through control options. Adapt your Touchscreen's look, choosing buttons, faders, animation, pop-up windows, transparent pages and Secure-it Touch electronic Lock out.

The permanently installed Unison® Wall Mount Paradigm Touchscreen with its DuraFrame design is built to withstand the busiest environments and is available in standard painted finishes (cream, ivory, grey, black and signal white) as well as custom paints or anodised finishes.

## PORTABLE TOUCHSCREEN

[www.etconnect.com/touchscreens](http://www.etconnect.com/touchscreens)



Unison Paradigm Portable Touchscreens are rugged, portable control devices that can be moved wherever you have a wired connector station. The Portable's DuraShell aluminium frame acts as a work stand when open and a screen protector when closed. The Portable Touchscreen communicates with the system via a flexible LinkConnect cable, which also powers the device, for use during fast changeovers or wherever you need temporary control. And the Portable loads just the controls you need, based on the location you plug it into – allowing you to stay focused on the task at hand, no matter how many rooms you have to work with.

## HANDHELD TOUCHSCREEN

[www.etconnect.com/touchscreens](http://www.etconnect.com/touchscreens)



Unison Handheld Paradigm Touchscreen is an elegant portable control device that can be used wired or wirelessly. In wired mode, the Handheld Touchscreen communicates to the system via a flexible LinkConnect cable, which also powers the Handheld and attaches to the Portable LinkConnect jack, Access Point or Tabletop Dock, for use wherever you need control for long periods of time. Used wirelessly, the Handheld Touchscreen employs ETC's innovative MeshConnect wireless technology to communicate with Paradigm's Tabletop Touchscreen Dock or Paradigm Access Point Accessories.





Built from the ground up with performance, reliability and ease of use in mind, the powerful Paradigm Architectural Control Processor module contains state of the art electronics and is packed with input and output ports. Designed to keep the lights on in your facility – even in critical emergency situations – the Paradigm processor uses solid state components, with no fans, disk drives or moving parts, for die hard 24/7/365 operation.

Get Connected. The Paradigm processor is the centre of your lighting control infrastructure. The ACP allows full Ethernet network control using NetConnect, featuring ETC’s Net3, powered by ACN, and native networking ports. The Paradigm Architectural Control Processor gives you the integration options you need, including two fully configurable DMX512A ports, which can be set as inputs or outputs, a bi-directional RS-232 serial port, along with four dry-contact inputs and four relay outputs. Or you can use your internet browser to view and edit elements of the system using LightDesigner Access, Paradigm’s built in web interface.



Mission critical functionality and power. Ultimate convenience. The most sophisticated buildings require the most sophisticated lighting control solutions. For large scale, multifunction, multi-partitioned venues where the stakes for system reliability are high, ETC offers the most comprehensive architectural control available: Paradigm control in an ERn enclosure.

The Unison ERn Control Enclosure was designed to perform one important task: support all the capabilities of the Paradigm Lighting Control System. With the ERn enclosure, you choose the features you need for your facility’s unique lighting and building control: processing, station support, power options and networking.

Convenient in size but a powerhouse in functionality, the ERn is available in two sizes – ERn2 and ERn4 – to meet the needs of your lighting and building control system now and in the future. ERn is the centre of a network infrastructure, with no need for external gear. The optional Ethernet Switch Module for ERn provides five ports for 10/100 networking with four ports supplying 802.13AF-compliant Power over Ethernet, making it the definition of a NetConnect system. And, like most infrastructure equipment, the ERn2 enclosure is also available in a 19” rack version.

## UNISON DRD DIMMING ENCLOSURES

[www.etconnect.com/DRd](http://www.etconnect.com/DRd)



ETC's Unison® DRd Series Enclosures are the workhorses behind the scenes, supporting a networkable Paradigm® processor and a variety of dimming, switching and option modules. These dimming enclosures are trusted for their reliability and versatility. Designed with long term round-the-clock operation in mind, Unison DRd's dimming, control and station power components are now modular, making service and support easier than ever.

Scaled to the power you need. Unison DRd is available in 6- and 12-module enclosures for up to 24 dimmers and can be cross-bussed from the same main power input, combining enclosures for up to 48 dimmers from a single feed, while only needing one control processor for both enclosures. When it comes to fluorescent dimming, Unison DRd can handle it all: two- and three-wire dimming ballasts with standard modules, DALI Ballasts and 0-10V ballasts.

## UNISON DIMMER MODULES

[www.etconnect.com/unisonmodules](http://www.etconnect.com/unisonmodules)



Unison Dimmer Modules are hard at work in venues across the globe. Designed specifically for use in Unison DRd Series enclosures, these modules are heavy duty, high grade commercial dimmers. Each module is manufactured for continuous duty at 1.3kW, 2.3kW, 3kW and 5kW capacities. Universal modules are available for incandescent, magnetic low voltage, two and four (need optional board) wire fluorescent, neon, cold cathode or switched loads, or in specialised modules such as three wire fluorescent, relay or constant current.

## LINKCONNECT STATION POWER MODULES

[www.etconnect.com/linkconnect](http://www.etconnect.com/linkconnect)



The LinkConnect Paradigm Station Power Module series provides the power for all your Unison Heritage and Paradigm stations. Based on Echelon's LonTalk protocol with LinkPower, LinkConnect allows you to communicate over a two wire, topology free data bus—simplifying system wiring. And the LinkConnect Station Power Module sends power, along with communication, down the same pair of wires for up to 32 stations. When you need more stations or need to cover more distance, you can add Paradigm Repeater or Dual Repeater Station Power Modules to your system.



ETC's Unison Heritage Control Stations are used in lighting systems worldwide, from smaller scale venues such as schools and restaurants to large scale networked conference centres and theme parks. Elegant and clean lined, Unison Heritage controls are designed to complement – not to compete with – the aesthetics of any interior environment, while being easy to install using LinkConnect.

The Unison Heritage series of button and button/fader control stations can be customised to suit any décor and application – available in a wide range of sizes, colour and configurations. Heritage faceplates use our Fastener-Free attachment system and may also be made to order – from custom legends in the font and colour of your choice to a unique look using materials you specify.

Maximum security. Prevent unauthorised use of your lighting control system in public spaces with Secure-it Keyswitch Stations. You specify combinations of buttons or faders with a local, momentary or maintained key lock in a single gang faceplate or choose button stations with key only access. Secure-It technologies provide you with multiple levels of control protection.

Not all system interaction involves people: a variety of Heritage interface stations (DMX in and out, network, AV serial, contact closure and more) are available when interaction with other building systems or peripheral equipment is required.



*Off the wall!* The wall is not always the most convenient location for lighting controls. Sometimes you want your controls to be right where you are. The Unison Heritage Console Station gives you mobility and flexibility, allowing you local control from a podium, a boardroom table or other temporary position. Plus, you can program it to provide different settings for each connection point.

Choose any of our button or fader/button stations for use in this portable, table top enclosure, complete with a 9m cable for connection to a LinkConnect Portable jack.



# Mosaic

## Unison® Mosaic Show Control

*Be memorable.* Special effects are no longer just for the stage. Everyday life has become the staging ground for entertainment experiences. It is not enough to engineer a space or structure functionally. The art and wonder of interactive lighting, automation, audio and visual spectacles, kinetic art displays, water effects and more are captivating people's attention — differentiating a venue, creating a landmark, making an event truly memorable.

Unison Mosaic is the solution for merging disparate elements—show control, LEDs, moving lights, media effects and more into one visionary work — seamlessly closing the distance between architectural and entertainment technology.

ETC's Unison Mosaic Show Control System assembles the pieces you need, giving you the freedom to focus on creativity not technology. Mosaic provides state of the art software and hardware tools. Easy to learn and use, Mosaic Designer Software provides the canvas for your artistic design, from concept through programming to execution. Mosaic Show Controllers (MSCs) are the ultra-compact hardware solution, running your shows reliably with peace of mind precision. And the MSC's wide range of inputs and outputs include industry standard network protocols to facilitate system integration as needed.

For retail, museum and themed spaces, art installations and special events—any unique environment—Mosaic control is the solution.



*Touch this.* The ancient word for tile, a tessera is a part of a greater mosaic and an object of utility itself. The Unison Mosaic Tessera Controller (MTPC) is both a part of a greater sophisticated networked system *and* a full standalone controller, in a compact interface. The versatile Tessera combines a sleek 4.3" touchscreen with a 512 channel DMX over Ethernet Mosaic controller. Complex lighting shows using devices like moving lights, colour-mixing LEDs, water features can all be controlled by Tessera. It also handles impromptu show control, accessories, automation, waterworks and other non lighting effects.

Each device supports onboard triggering over Ethernet. Additional channels and triggering interfaces are supported by optional MSC controllers and remote devices attached over an Ethernet network.

Tessera's integrated show control capability is programmed and configured using Mosaic Designer software. With RealEngine functionality, Tessera ensures an accurate representation of your full show – whether in software simulation or played live to connected controllers. Tessera also employs LiveControl for live output of your Mosaic show file to Mosaic controllers and fixtures during simulation. With DesignerAccess, Tessera draws on an internal web server with pages providing status, configuration information, remote monitoring and remote show uploads. The QuickChange function allows show data to be stored on a flash memory card, which can be conveniently transferred to another Tessera processor.



*Packed with power.* These 'instant-on' compact devices run your sophisticated shows precisely, time after time. The Mosaic Show Controller 1 (MSC 1) and the Mosaic Show Controller 2 (MSC 2) support DMX512 and DMX-Over-Ethernet protocols to control colour mixing fixtures, conventional dimmable luminaires and automated lights. MSC 1 offers one DMX universe, or 170 RGB colour mixing units. MSC 2 offers two universes or 340 RGB colour mixing units. Or you can choose to output the data to your network using DMX-over-Ethernet protocols: ETCNet2, sACN, Philips KiNet, ArtNet2 or Pathway XDMX.

Each MSC has the same extensive range of external triggering interfaces, including Ethernet, RS232 Serial, MIDI and digital inputs. The built in real time clock triggers precise timed events, including 'sunrise' and 'sunset' astronomical cues. Additional triggering interfaces are supported by optional MSC Expansion Modules attached to the unit.

The Mosaic RealEngine drives your Mosaic Designer software created show flawlessly in real time. For LiveControl functionality or show upload, MSCs accept either Ethernet or USB connections from the Mosaic Designer software running on your computer. MSCs also feature DesignerAccess, an internal web server with active pages – providing status, configuration information, remote monitoring and remote show uploads.



*Beyond the box.* The Mosaic Show Controllers 1 and 2 offer many built in interface options. When those are not enough, you can add on up to two Mosaic Expansion Modules per MSC 1 or 2 – each specific to a protocol or purpose.

The **Mosaic DMX Input Expansion Module** allows you to configure DMX channels as triggers for intensity or colour control.

The **Mosaic RS485 Expansion Module** allows you to communicate bi-directionally with third-party show control and automation devices.

Harness the power of RealEngine with the **Mosaic Audio Expansion Module** and manipulate intensity, colour and timeline playback for sound-to-light effects.

The **Mosaic Timecode Expansion Module** reads all Linear Time Code (LTC) formats so that you can synchronise your design with audiovisual or show control equipment.

Control up to 128 Digital Addressable Lighting Interface (DALI) ballasts per Mosaic Show Controller with the **Mosaic DALI Master Expansion Module** or use the DALI protocol to trigger one or more Mosaic Show Controllers with the **Mosaic DALI Slave Expansion Module**.



*Expand your reach.* The Mosaic Remote Input/Output Modules (RIOS) expand the advanced show control capabilities of the system in interactive installations, allowing lighting and AV to respond instantly to the environment or viewer. All three RIO devices offer an integrated, bi-directional serial port (RS232/RS485) for interfacing to third party equipment and use reliable Ethernet wiring with IEEE 802.3af Power-over-Ethernet (PoE).

#### RIO 8/0

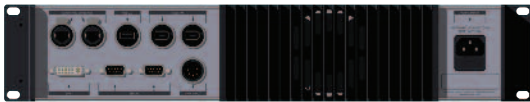
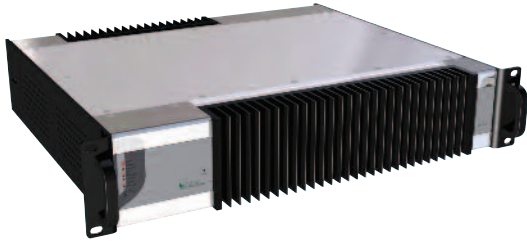
When you need to accept discrete triggers from third party equipment to complete your system, choose the RIO 8/0. Featuring eight configurable Tri-Mode inputs, the RIO 8/0 accepts almost any input from the necessary equipment.

#### RIO 4/4

When you need both input triggers and control over other devices in the same location, choose the RIO 4/4. Featuring both relay outputs and configurable Tri-Mode inputs, the RIO 4/4 allows you to integrate with almost any third party device.

#### RIO 0/8

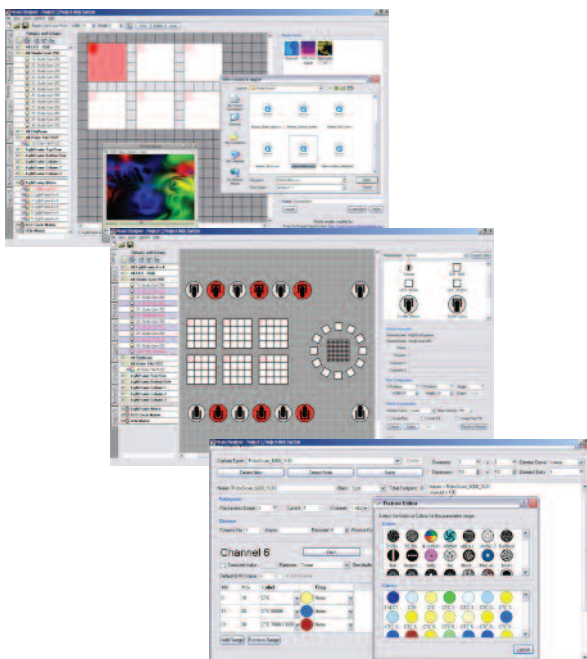
When you need to issue commands to third party devices (such as building automation and alarm systems, effects controllers and automata) rely on the RIO 0/8 with eight fully isolated relay outputs.



*Extreme show control.* The “X” in MSC X stands for that exceptional project which demands much more control power and integration. Designed to meet the needs of landmark projects, the MSC X is available in capacities ranging from 10,240 channels of DMX-over-Ethernet (20 universes) up to more than 100,000 channels (200 DMX universes or 34,000 RGB LEDs!) from a single 19” rack mounted unit.

Like its siblings MSC 1 and MSC 2, the MSC X has an extensive range of external triggering interfaces, including Ethernet, RS232 Serial and DMX input. A built in real time clock triggers precise timed events, including ‘sunrise’ and ‘sunset’ astronomical cues. As a DMX-over-Ethernet device, the MSC X also empowers you to send the data to your network using Ethernet protocols ETCNet2, Philips KiNet, ArtNet2 or Pathway XDMX simultaneously. But unlike any other Mosaic device, the MSC X includes VideoConnect – digital video outputs using Firewire and DVI connections to master pixel mapping on video based fixtures, as well as a Firewire digital video input for live video mapping in real time.

All Mosaic Show Controllers feature QuickChange, where invaluable show data is stored on a removable flash memory card, which can be transferred to another MSC if needed. The Mosaic RealEngine drives your Designer created show flawlessly in real time. For LiveControl functionality or show upload, MSC X accepts Ethernet connections from the Mosaic Designer software running on your computer. MSCs also feature DesignerAccess, an internal web server with active pages – providing status, configuration information, remote monitoring and remote show uploads.



*Freedom to focus on creativity not technology.* Unison Mosaic Designer Software provides the framework for creating your unique work of art. Everything you need is here: from importing project plans for system layout, to positioning luminaires and other devices in the plan, to editing triggers and timelines, picking specific colours, programming special effects, mapping pixels to an array, playing back video clips, visualising the results and uploading your show.

With Mosaic you don’t need a control desk. You already have one – inside the Designer Software. Using your Mac or PC, create an infinite mosaic of show looks with Designer’s TimeSlice using visual, timeline based blocks. Use ColorPick, Designer’s powerful colour selector to change intensity and hue. EasyFX brings out the artistry of your design with a comprehensive range of customisable special effects. And Designer’s PixelMap goes way beyond traditional lighting effects allowing you to define a group of fixtures as a virtual screen and then play back static or video images on it. Use this as true video playback across an LED array or to generate dynamic and fluid colour effects across large numbers of LEDs and other fixtures.



# Smartlink

**SmartLink® Control** *Architectural lighting control for any budget!* Plug-and-play — SmartLink architectural lighting control is ready to go, out of the box. Low installation cost. No programming or commissioning. No DMX wiring required. No software, computer or external devices necessary.

Smart savings. SmartLink's system functionality is free in ETC's SmartPack and is a low-cost option in Unison® systems. Recall fundamental lighting looks with SmartLink button stations, which allow simple access to presets and sequences. We also offer the functional and stylish SmartLink TimeClock, giving you access to all your presets and time of day control from a single location. You choose what fits your location's aesthetics and needs.

SmartLink's two wire topology free LinkConnect system gives you the freedom to put stations where needed, without worrying about wiring. SmartLink is a high quality, low cost solution for lighting control applications such as restaurants, retail stores, schools and more.



## SMARTLINK ARCHITECTURAL CONTROL PROCESSOR (ACP)

[www.etconnect.com/smartlinkACP](http://www.etconnect.com/smartlinkACP)



Designed exclusively for the Unison DRd enclosures, the SmartLink ACP provides smooth lighting fades for up to 48 channels. The SmartLink ACP features a QuickLoad SD card slot, which can be used to store the system data for later access, even while the system is in use. The ACP's Secure-it User Access control keeps data protected, using multiple levels of user access at the facepanel.

The ACP offers 64 presets and a sequence and can support 16 SmartLink control stations when you add a LinkConnect Station Power Module. The SmartLink ACP also accepts DMX512A input for control by other devices. The combination of DMX and LinkConnect allow you to Snapshot a lighting scene for use later as one of the system presets, by simply pressing and holding a button.

## SMARTLINK BUTTON STATIONS

[www.etconnect.com/smartlinkstations](http://www.etconnect.com/smartlinkstations)



*Light touch.* A lot of power. Available in convenient five- and ten-button configurations, SmartLink stations provide direct access to lighting presets and sequences. With Plug-and-Play addressing, you don't need to program the stations, but you can effortlessly change which presets they access. Using the two wire topology free LinkConnect network, up to 16 button stations can be employed in a system. SmartLink stations are available in neutral colours to complement all interiors: cream, ivory, black, grey and signal white.

## SMARTLINK TIMECLOCK

[www.etconnect.com/timeclock](http://www.etconnect.com/timeclock)



The SmartLink TimeClock brings low cost, easy to use time of day control to ETC Unison, Sensor and SmartPack dimming, as well as to SmartSwitch relay systems.

When energy consumption is a concern, SmartLink TimeClock is a smart choice. Meeting energy saving standards, TimeClock maximises the energy efficiency of your lighting system.

Anyone can program the SmartLink TimeClock for set-it-and-forget-it operation. Automatically activate lighting presets and sequences using event recurrence modes like 'everyday', 'weekday', 'weekend' and 'daily'. It also offers fully configurable Daylight Saving Time settings.

The SmartLink TimeClock follows the design of other SmartLink stations. The attractive two gang device has a coordinating overlay and plastic faceplate available in cream, ivory, black, grey and signal white.



# Source Four



## Source Four® HID luminaire family

*Source Four lighting power for anywhere!* If your commercial venue needs the lighting punch and

long throws of a theatrical spotlight or the even, clean wash of a PAR-style luminaire, the solution is Source Four HID. Call attention to architectural details. Project gobos, logos and frame signage. Source Four HID's long life 12,000 hour lamp is available in both 70W and 150W versions. That means low maintenance – perfect for locations that can't be reached often or easily – and low-wattage options, great for working within strict energy consumption guidelines.

Source Four HID gives you the level of performance of a 2,000 hour incandescent Source Four luminaire but with 10,000 additional hours. The metal halide luminaire features the Source Four's famous cool beam, imaging, gobo projection and bright, even field. Source Four HID uses an electronic ballast with a power factor of greater than 95% compared to some competitors' ballasts at less than 70%. And HID's ballast has an efficiency of greater than 90%. With its low operating current, you can safely place more Source Four HID's on a standard lighting circuit than you can other manufacturers' units that operate less efficiently.

A Source Four HID for every commercial environment. The standard Source Four HID comes in field angles to suit almost any throw distance! Use the Source Four HID jr when space is tight. The Source Four HID Zoom allows you to alter field angles for multipurpose venues or make last minute on site changes. The Source Four HID PAR gives you brilliant wash lighting and the Source Four HID PARNel gives you multiple effects – dramatic pools of light or room filling washes. The Source Four HID PAR and HID PARNel offer four field spreads and a 25°-45° zoom range. Source Four HID's are non-dimmable.

## SOURCE FOUR HID

[www.etconnect.com/s4HIDCE](http://www.etconnect.com/s4HIDCE)



5°, 10°, 14°, 19°, 26°, 36°, 50°, 70° and 90° field angles

15°-30° and 25°-50° Zooms

Available in 70W and 150W versions

Yoke mounted electronic ballast

Ships with 70W or 150W ceramic metal halide lamp

12,000 hour lamp life with 3000°K colour temperature

Optional 4200°K 12,000 hour lamp available

Barrel rotates  $\pm 25^\circ$

Black, white, and silver grey standard; custom colours available

EDLT (Enhanced Definition Lens Tube) option available

## SOURCE FOUR HID JR

[www.etconnect.com/s4HIDjrCE](http://www.etconnect.com/s4HIDjrCE)



26°, 36° and 50° fixed field angles

25°-50° Zoom

Available in 70W and 150W versions

Yoke mounted electronic ballast

Ships with 70W or 150W ceramic metal halide lamp

12,000 hour lamp life with 3000°K colour temperature

Optional 4200°K 12,000 hour lamp available

## SOURCE FOUR HID PAR & PARNEL

[www.etconnect.com/s4HIDparCE](http://www.etconnect.com/s4HIDparCE)



Available in 70W and 150W versions

Yoke mounted electronic ballast

Ships with 70W or 150W ceramic metal halide lamp

12,000 hour lamp life with 3000°K colour temperature

Optional 4200°K 12,000 hour lamp available

PAR features interchangeable lens set  
(VNSP, NSP, MFL, WFL — standard; XWFL — optional)

PARNel features 25°-45° zoom



# Source Four



## Introducing Source Four XT

*Great spotlighting for the great outdoors.* Responding to popular demand, ETC has created a Source Four for exterior

use: the Source Four XT HID Zoom. The new luminaire offers the acclaimed operational benefits of Source Fours — optical acuity, brilliant light output and energy efficiencies, in a waterproof, dust tight housing for all weather use. The XT's durable industrial design coupled with a 12,000 hour, 150W high intensity discharge source make it ideal for long term use anywhere.

Unlike interior rated spotlights modified with add on housings to work outdoors, this is a sleek, fully sealed and self contained fixture. XT is also aesthetically neutral so that it blends into any location — from outdoor architectural installations to entertainment venues to themed environments and more.

Engineered for a variety of long throw situations, the XT uses the same 15° to 30° optical system as the Source Four Zoom. And the XT employs Source Four B gobo patterns and dichroic colour. With its built in shutters, the XT is ideal for highlighting architectural detail, as well as for framing building features and signage. XT's mounting options allow you to light from wherever you need: Place the fixture on the ground, hang it by yoke, attach it to poles, walls or other structures.

Designed for the long haul, the Source Four XT requires minimal maintenance. Technicians can re-lamp the luminaire without breaking focus or accessing the optical chamber. And the fixture's ballast is mechanically separate for cooler operation, and fully pre-wired for fewer installation hassles.



Low copper die cast and extruded aluminium construction

Stainless steel, metric hexagonal hardware

150W ceramic metal halide lamp (not dimmable), 12,000 hour life

Integral 230V electronic ballast, with greater than 90% efficiency

IP66 rated — watertight structure seals optical chamber

CE compliant

Removable barrel for easy focus

Barrel hangs on yoke for hands free operation

Tilt down ballast housing for lamp change without disturbing focus

15° to 30° zoom range with high efficiency optics

Dual internal pattern holders suitable B size metal or glass gobo patterns and dichroic colour

Two plane stainless steel shutter assembly with shutter rotation

Bronze, black and white standard; custom colours available

#### ACCESSORIES

Variety of mounting options (yokes, pole top adapters, wall mount, etc)

Gobo pattern Holder (B size) for steel patterns

Gobo pattern Holder (B size) for glass patterns and dichroic colour

Grid Louver and Half Shield options for glare control

External media holder, holder for glass or gel colour for external mounting on fixture housing



# a better way

ETC was founded in 1975 with the passionate belief that there

was a better way to make a lighting control desk. We developed one of the first microprocessor-based systems, with the then blindingly fast 2MHz 8080 CPU. Now our award winning lighting control desks are thousands of times more powerful than those versions. And we keep believing lighting control can be even better.

We also found that the HPL lamp in a Source Four® made for a better spotlight — unmatched light output *and* energy savings. More than 3 million Source Four-family luminaires now light up venues and productions worldwide. There is even a new all-weather Source Four spotlight — a better way to light outdoors.

And we offer you a better way to seize the efficiencies of LED lighting: eco-friendly LED fixtures with the power and punch that theater and broadcast productions require, plus a stunningly beautiful seven-colour range. The most vivid, saturated colour available from LED technology: the award-winning Selador Series x7 Color System, including the award-winning Desire line and the brand new Source Four LED.

With our Unison® family, now comprising Paradigm®, SmartLink®, Mosaic products and more, we are giving you far better — and greener — solutions for handling sophisticated architectural lighting, as well as for building systems and dynamic show control.

We also believe there is a better way to serve customers. At ETC, our best product is our people. Our Project Management group serves as intermediaries and customer advocates. They support your installation's unique needs, create submittals, assist specifiers, process order changes, facilitate shipping, and coordinate technical service involvement. They *listen* to you and respond with solutions for your lighting success.

We are here with customer support. Call us when you need us, 24 hours a day, seven days a week. Our regional offices and over 200 authorised service providers around the world will do what it takes to solve your problem. *The show must go on.* That's the ETC ethic.

The great playwrights of history have often said '*Life is theatre.*' At ETC, we light life. And we're always looking for better ways to do that for you.



**ETC Headquarters**

3031 Pleasant View Rd  
 PO Box 620979  
 Middleton WI 53562-0979

Toll Free 1.800.688.4116  
 Tel 1.608.831.4116  
 Fax 1.608.836.1736  
 Automated voice mail system  
 608.831.4041

**Electronic Theatre  
 Controls Ltd**

26-28, Victoria Industrial Estate  
 Victoria Road, London W3 6UU

Tel +44 (0)20 8896 1000  
 Fax +44 (0)20 8896 2000

**Electronic Theatre  
 Controls GmbH**

Ohmstrasse 3  
 83607 Holzkirchen  
 Deutschland

Tel +49 80 24 / 47 00-0  
 Fax +49 80 24 / 47 00-3 00

**ETC srl**

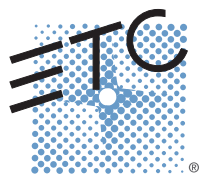
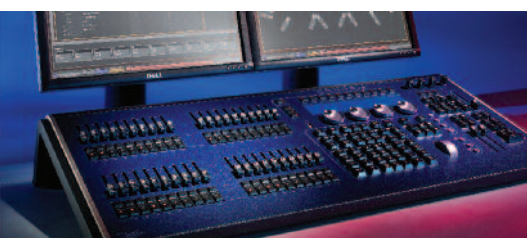
Via Pieve Torina, 48  
 00156 Roma  
 Italy

Tel +39 063 211 1683  
 Fax +44 (0)20 87528486

**Electronic Theatre  
 Controls Asia, Ltd**

Room 1801, 18/F, Tower I,  
 Phase 1 Enterprise Square  
 9 Sheung Yuet Road  
 Kowloon Bay, Kowloon,  
 Hong Kong

Tel +852 2799 1220  
 Fax +852 2799 9325



**Corporate Headquarters** ■ 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA ■ Tel +1 608 831 4116 ■ Fax +1 608 836 1736

**London, UK** ■ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel +44 (0) 20 8896 1000 ■ Fax +44 (0) 20 8896 2000

**Rome, IT** ■ Via Ennio Quirino Visconti, 11, 00193 Rome, Italy ■ Tel +39 (06) 32 111 683 ■ Fax +44 (0) 20 8752 8486

**Holzkirchen, DE** ■ Ohmstrasse 3, 83607 Holzkirchen, Germany ■ Tel +49 (80 24) 47 00-0 ■ Fax +49 (80 24) 47 00-3 00

**Hong Kong** ■ Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325

**Web** ■ [www.etccconnect.com](http://www.etccconnect.com) ■ Copyright © 2012 ETC. All Rights Reserved. All product information and specifications subject to change. 5000L1009-GB Rev. J Printed in USA 08/12