



UNISON®
Project
Studio

Imagine...
the possibilities.



Unison®

an affordable package

of dimming and control

products designed

specifically to

provide flexible

multi-scene lighting

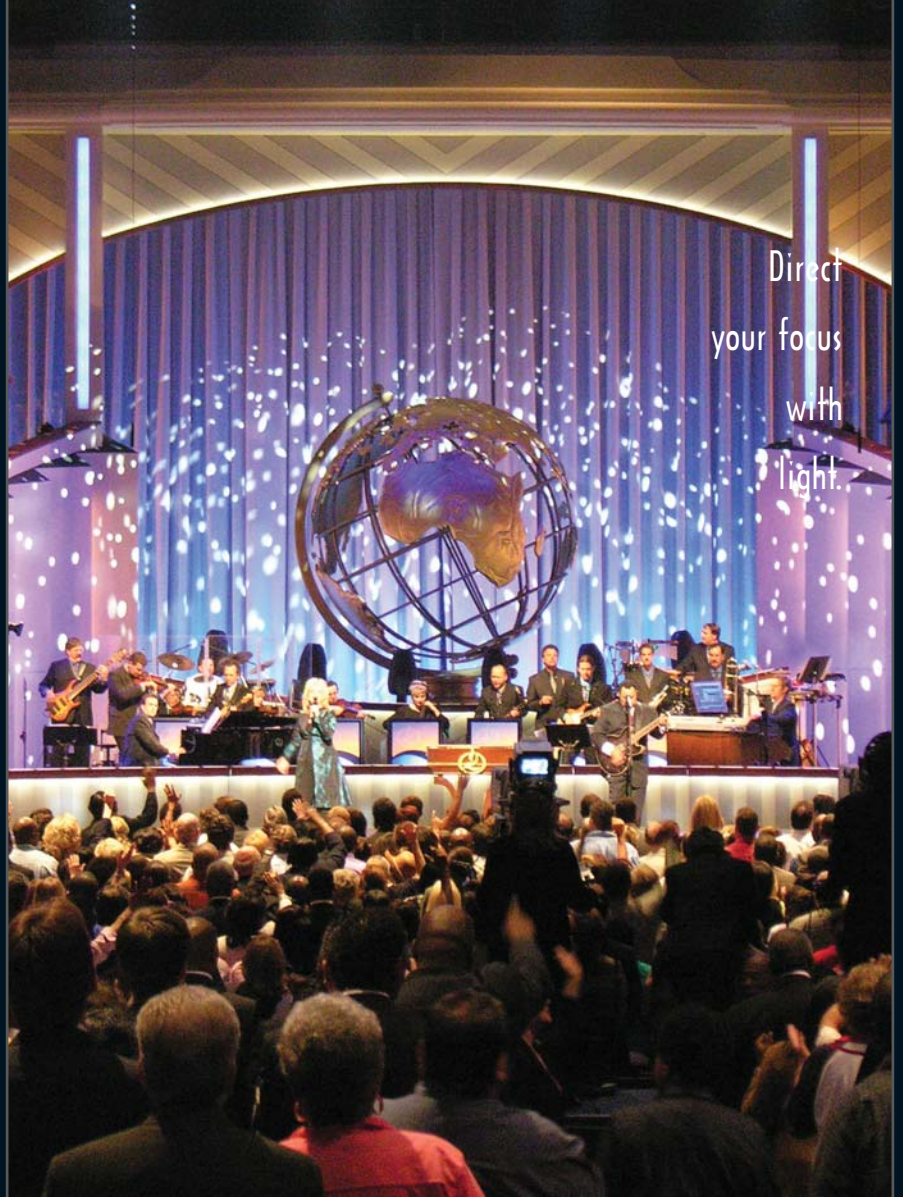
presets for small to

large architectural

and entertainment

applications.

Imagine...
the possibilities.



Direct
your focus
with
light.

Easy to install, program and operate, Unison offers dimming and switching for incandescent, fluorescent, low-voltage, neon and cold-cathode lighting. Fully programmable fader, button and touchscreen LCD stations provide an unsurpassed variety of control options. Our design and support services before and after the sale give you peace of mind!



ETC Archi



Energy Management concerns

With soaring energy costs, smart lighting controls are a must! Let Unison assist you in extending your energy dollars!

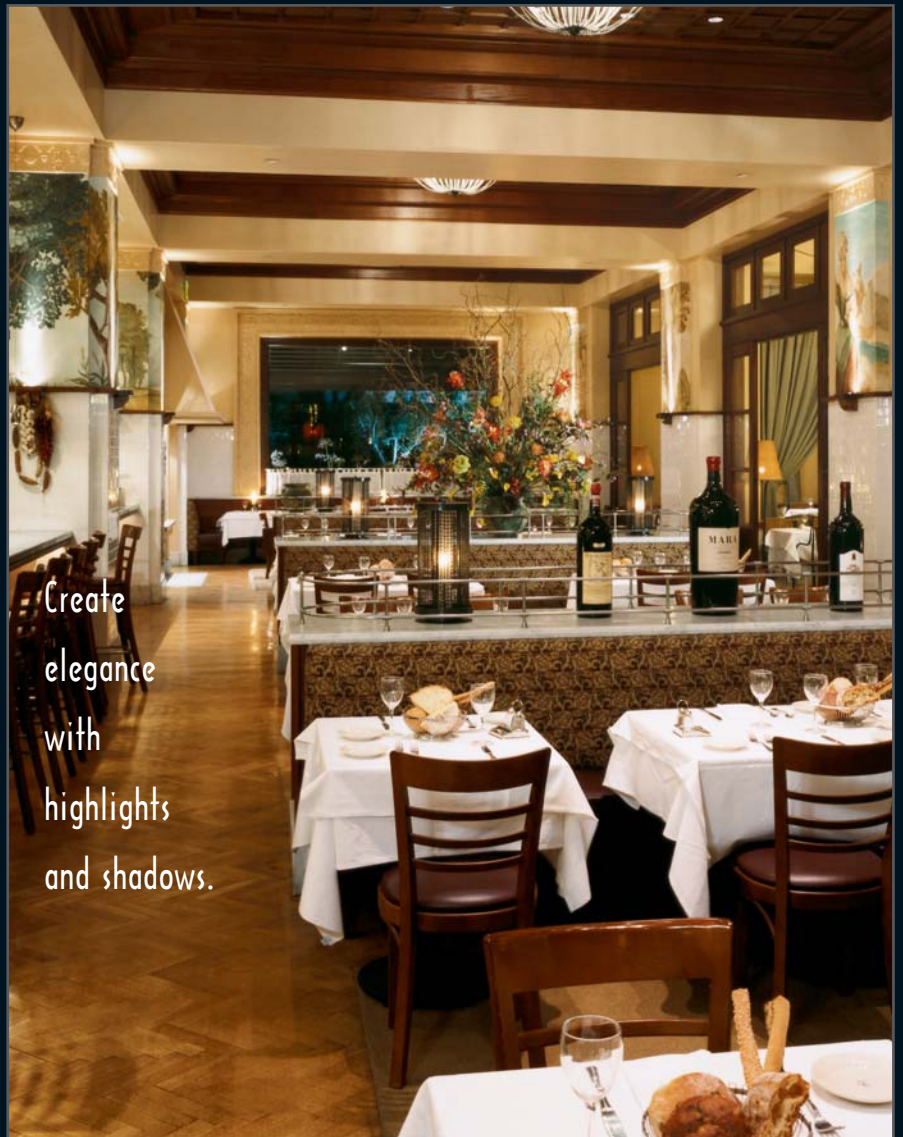
- Interface with multilevel photocells, and harvest your daylight
- Use motion sensors to turn off lighting in unoccupied spaces
- Use the integrated timeclock to automatically turn lighting on and off based on sunrise, sunset or time of day
- Program a "max" lighting level to extend lamp life

Integral features include:

- Control station programming
- Room Combine
- Astronomical timeclock
- Spreadsheet import/export
- Macro sequencing
- Full DMX interface

Advanced capabilities include:

- Large-system networking
- DMX routing and prioritization
- Serial interface
- Dry-contact interface



Create elegance with highlights and shadows.

Button Station Controls

Fully programmable button stations provide preset select, non-dim control, room-combine or macro activation function in half- and one-gang sizes.



Specification

Mechanical:	1/2 or 1-gang electronic assembly and screwless faceplate with 1–10 fully programmable buttons and integral LED response indicator. Faceplate and button cap constructed of injection-molded ABS plastic.	
Wiring:	Link Power:	(1) Belden 8471 – Topology free, polarity independent Max run 1500' w/o Repeater
	Ground:	(1) #14AWG stranded
Backbox:	1-gang flush:	RACO 690 (not by ETC)
	1-gang surface:	ETC 7081A2004-1 (supplied by ETC)

Field-programmable buttons

Preset Recall
 Manual
 Record
 Lockout
 Raise
 Lower
 Macro Recall
 Zone Bump
 Room Join/Separate

Beveled designer faceplates

Topology-free wiring

Connectorized station termination

White, Signal White, Ivory, Gray and Black standard station colors

Custom color, material available upon request

Flush- or surface-locking doors available

For more information

www.etcarchitectural.com

Ordering Information

Button Stations

	Model #	Description	Legend
	U00001 - __1F	1/2 gang, 1 button	On/Off
	U00001 - __2F	1/2 gang, 1 button	Entry
	U00001 - __3F	1/2 gang, 1 button	Panic
	U00002 - __1F	1/2 gang, 2 button	On, Off
	U00002 - __2F	1/2 gang, 2 button	Open, Close
	U00005 - __1F	1/2 gang, 5 button	Preset 1-4, Off
	U10001 - __1F	1 gang, 1 button	On/Off
	U10001 - __2F	1 gang, 1 button	Entry
	U10001 - __3F	1 gang, 1 button	Panic
	U10002 - __1F	1 gang, 2 button	On, Off
	U10002 - __2F	1 gang, 2 button	Open, Close
	U10005 - __1F*	1 gang, 5 button	Preset 1-4, Off
	U10007 - __1F	1 gang, 7 button	Raise, Lower, Preset 1-4, Off
	U10010 - __1F	1 gang, 10 button	Preset 1-9, Off
	U11K00 - __1F	1 gang, 1 keyswitch (maintained**)	Lockout
	U11K01 - __1F	1 gang, 1 keyswitch (maintained**), 1 button	Lockout, On/Off
	U11K01 - __2F	1 gang, 1 keyswitch (maintained**), 1 button	Lockout, Entry
	U11K01 - __3F	1 gang, 1 keyswitch (maintained**), 1 button	Lockout, Panic
	U11K02 - __1F	1 gang, 1 keyswitch (maintained**), 2 button	Lockout, On, Off
	U11K02 - __2F	1 gang, 1 keyswitch (maintained**), 2 button	Lockout, Open, Close
	U11K05 - __1F	1 gang, 1 keyswitch (maintained**), 5 button	Lockout, Preset 1-4, Off

*Product shown above.

**Keyswitch stations available in momentary configurations.

Notes:

Enter station color code in __ space provided. 1-white, 2-ivory, 3-gray, 4-black, 5-signal white.

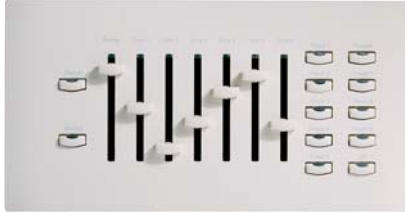
Above stations flush mount (F) in industry-standard gang boxes. (Not by ETC.)

Also available in surface-mount (S) and portable (P) configurations.



Fader Station Controls

Unison's Fader Stations offer flexible hands-on control over different lighting zones in a facility. No user expertise required: Simply slide fader handles to smoothly adjust levels of brightness. With Unison's ultra-convenient 'preset' buttons added, one touch recalls and activates pre-designed lighting looks.



Field-programmable buttons

- Preset Recall
- Manual
- Record
- Lockout
- Raise
- Lower
- Macro Recall
- Zone Bump
- Join/Separate

Field-programmable faders

- Master
- Zone Control
- Preset Control
- Fade Rate

Beveled designer faceplates

Topology-free wiring

Connectorized station termination

White, Signal White, Ivory, Gray and Black standard station colors

Custom color, material available upon request

Flush- or surface-locking doors available

Portable desktop stations

For more information

www.etcarchitectural.com

Specification

Mechanical:	Single and multi-gang electronic assembly and screwless faceplate with 1–16 fully programmable faders and seven or twelve buttons with integral LED response indicator. Faceplate, button and fader cap constructed of injection-molded ABS plastic.
Wiring:	
Station:	Link Power: (1) Belden 8471 – Topology free, polarity independent Max run 1500' w/o Repeater
	Ground: (1) #14AWG stranded
Backbox:	1–7 gang flush: RACO Series (not by ETC) 1–7 gang surface: ETC 7081A2004-X Series (supplied by ETC)

Ordering Information

Fader Stations

	Model #	Description	Legend
	U10100 - __1F	1 gang, 1 fader	Master
	U10101 - __1F	1 gang, 1 fader, 1 button	Master, On/Off
	U10102 - __1F	1 gang, 1 fader, 2 buttons	Master, On, Off
	U10105 - __1F	1 gang, 1 fader, 5 buttons	Master, Preset 1-4, Off
	U30407 - __1F*	3 gang, 4 fader, 7 buttons	Manual, Record, Master, Zone 1-3, Preset 1-4, Off
	U30412 - __1F	3 gang, 4 fader, 12 buttons	Manual, Record, Master, Zone 1-3, Preset 1-9, Off
	U40707 - __1F	4 gang, 7 fader, 7 buttons	Manual, Record, Master, Zone 1-6, Preset 1-4, Off
	U40712 - __1F	4 gang, 7 fader, 12 buttons	Manual, Record, Master, Zone 1-6, Preset 1-9, Off
	U51007 - __1F	5 gang, 10 fader, 7 buttons	Manual, Record, Master, Zone 1-9, Preset 1-4, Off
	U51012 - __1F	5 gang, 10 fader, 12 buttons	Manual, Record, Master, Zone 1-9, Preset 1-9, Off
	U61307 - __1F	6 gang, 13 fader, 7 buttons	Manual, Record, Master, Zone 1-12, Preset 1-4, Off
	U61312 - __1F	6 gang, 13 fader, 12 buttons	Manual, Record, Master, Zone 1-12, Preset 1-9, Off
	U71607 - __1F	7 gang, 16 fader, 7 buttons	Manual, Record, Master, Zone 1-15, Preset 1-4, Off
	U71612 - __1F	7 gang, 16 fader, 12 buttons	Manual, Record, Master, Zone 1-15, Preset 1-9, Off

*Product shown above.

Notes:

Enter station color code in __ space provided. 1-white, 2-ivory, 3-gray, 4-black, 5-signal white. Above stations flush mount (F) in industry-standard gang boxes. Also available in surface-mount (S) and portable (P) configurations.



Touchscreen LCD Station Controls

LCD stations consist of a backlit liquid-crystal display (LCD) with a touchscreen interface. Stations operate using graphic buttons, faders and other images on up to thirty tab-styled programmable pages. The multiple-room controller allows the importing of bitmap images and the programming of electronic lockout codes, on a page-by-page basis. Designer and industrial portable LCD stations are available.



32 custom or standard control pages

Field-programmable buttons

- Preset Recall
- Manual
- Record
- Lockout
- Raise
- Lower
- Macro Recall
- Zone Bump
- Room Join/Separate

Virtual zone control

Custom screens

Import bitmap images

Integral electronic lockout

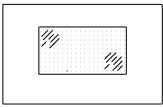
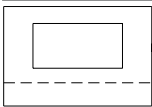
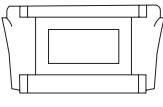

Custom color, material available upon request

Specification

Mechanical:	Electronic Touchscreen LCD assembly and faceplate. Faceplate constructed of injection-molded ABS plastic.
Wiring:	
Station:	<p>Link Power: (1) Belden 8471 – Topology free, polarity independent Max 4 LCD per process or Max run 1500' w/o Repeater</p> <p>Auxiliary 24Vdc: (2) #16AWG Max run 1500' w/o Repeater</p> <p>Ground: (1) #14AWG stranded</p>
Backbox:	<p>Flush: ETC 7081A2002 (supplied by ETC)</p> <p>Surface: ETC 7081A2001 (supplied by ETC)</p>

Ordering Information

LCD Station Options

	Model #	Description	Legend
	ULCD - __F	Flush-Mount LCD	
	ULCD - __S	Surface-Mount LCD	
	ULCD - __P*	Portable LCD/Industrial	Clam shell design
		Note: U1RS Receptable Station Required	
	ULCD - __D	Portable LCD/Console	Desktop design
		Note: U1RS Receptable Station Required	
	U1RS - __F	1 gang, Portable Receptacle	Portable
	U1RS - __S	1 gang, Portable Receptacle	Portable

*Product shown above.

Notes:

Enter station color code in __ space provided. 1-white, 2-ivory, 3-gray, 4-black, 5-signal white.
All LCD backboxes supplied by ETC.

For more information

www.etcarchitectural.com

Infrared Controls

Infrared receiver/transmitter stations offer wireless lighting control for applications such as meeting rooms and ballrooms.



Wireless lighting control

Programmable buttons

Preset Recall
Manual
Record
Lockout
Raise
Lower
Macro Recall
Zone Bump
Join/Separate

Specification

Mechanical:

Receiver: 1-gang electronic assembly and screwless faceplate with IR receiver and integral LED response indicator. Faceplate constructed of injection-molded ABS plastic.

Transmitter: 6.75" h x 2" w x 0.5" d handheld device constructed of injection-molded ABS plastic. Enclosure to include 5 or 10 fully programmable soft-touch buttons.

Wiring:



Station: **Link Power:** (1) Belden 8471 – Topology free, polarity independent
Max run 1500' w/o Repeater
Ground: (1) #14AWG stranded

Backbox: 1-gang flush: RACO 690 (not by ETC)
1-gang surface: ETC 7081A2004-1 (supplied by ETC)

Functional: Receiver reception cone: 60°
Transmitter range: 35'

Ordering Information

Infrared

	Model #	Description	Legend
	U1IR - __F	1 gang – Infrared Receiver	
	UP-05	5 button handheld IR transmitter	Preset 1-4, Off
	UP-10	10 button handheld IR transmitter	Preset 1-9, Off

*Product shown above.

Enter station color code in __ space provided. 1-white, 2-ivory, 3-gray, 4-black, 5-signal white.

For more information

www.etcarchitectural.com



Imagine...
the possibilities.

Contact Interface

The Contact Interface station allows integration of multiple systems via contact closure (in or out).



Sends and receives
contact closure

Interface with:

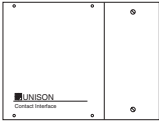
- Multi-level photocell
- Motion Sensor
- Fire Alarm System
- Partition
- AV System
- Projection Screen
- Blinds

Specification

Mechanical:	Surface mount – 18-gauge formed steel enclosure finished in black, smooth, matte, powder coat paint. Assembly to consist of up to 16 connections; 8 inputs functionally coupled with 8 normally open relay contact outputs. Inputs and outputs can be configured as either maintained or momentary.		
Electrical:	Output Contact Rating:	0.5A@120VAC / 1A@30Vdc	
	Switch Input Rating:	5V@10mA (unit requires dry contact closure)	
Wiring:	Link Power:	(1) Belden 8471 – Topology free, polarity independent Max run 1500' w/o Repeater	
	Auxiliary 24Vdc:	(2) #16AWG Max run 1500' w/o Repeater	
	Ground:	(1) #14AWG	
Switch Input: (each)	(2) #18AWG – twisted – max 300'	Relay Output: (each)	(2) #10AWG to #18AWG – twisted – max 300'

Ordering Information

Contact Interface

	Model #	Description	Dimensions (h x w x d)
	UCI*	Unison Contact Interface	10.5" x 14" x 3"
	R MK	Rack Mount Kit (6U)	10.0" x 2.5" x 3"

*Product shown above.

Fader Interface

The fader interface allows integration of analog components such as daylight sensors.

Activates presets,
control zones and/or preset
levels with analog input

Interface with:

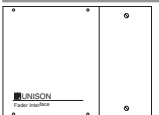
Daylight Sensor Interface to
continuously maintain lighting levels
based on analog photocell input

Specification

Mechanical:	Surface mount – 16-gauge formed steel enclosure finished in black smooth matte powder coat paint. Assembly to consist of up to 8 input connections and 8 output lamp indication connections.		
Electrical:	Lamp Output Rating:	100mA @ 12Vdc	
	Fader Input Rating:	0-5Vdc (Must be referenced to Aux Power common)	
Wiring:	Link Power:	(1) Belden 8471 – Topology free, polarity independent Max run 1500' w/o Repeater	
Station:	Auxiliary 24Vdc:	(2) #16AWG Max run 1500' w/o Repeater	
	Ground:	(1) #14AWG	
Fader Input:	(3) #18AWG – twisted – max 300'	Indicator Output:	(2) #18AWG

Ordering Information

Fader Interface

	Model #	Description	Dimensions (h x w x d)
	UFI	Unison Fader Interface	10.5" x 14" x 3"

For more information

www.etcarchitectural.com



Dimmer Modules

Patented ETC dimming modules feature fully magnetic circuit breakers, standard or enhanced risetime, toroidal filter chokes, and smooth dimming of load types including incandescent, low voltage, fluorescent, neon and cold cathode.



Dimming and relay modules

Modular die-cast
aluminum chassis

Tool-free insertion

Standard (350 μ s) and
enhanced (500 μ s)
risetime filtering

Dims incandescent, low voltage,
fluorescent (2-, 3- and 4-wire),
neon, and cold cathode

Magnetic breakers –
fully rated for continuous loads

For more information

www.etcarchitectural.com

Specification

Mechanical:	Modular – heavy duty, die-cast aluminum chassis with an integral faceplate, finished in a fine-texture, scratch-resistant, gray, epoxy powder coat.
Electrical:	
Internal:	Fully prewired
Module Rating:	Dual and single 10, 15 and 20A @120V Dual and single 5, 15 and 20A modules @277V Up to 100,000A SCCR @ 120V, 14,000A SCCR @ 277V
Circuit Bkr:	Tungsten rated, fully magnetic
SCR:	Sealed patented assembly consisting of two back-to-back SCR's per circuit
Filtering:	Integral toroidal filter chokes used to limit objectionable harmonics, reduce lamp-filament sing and limit radio frequency interference on line and load conductors Standard risetime: 350 μ s Enhanced risetime: 500 μ s (E)
Module Types:	
Universal:	Designed to control incandescent, low voltage, 2 and 4-wire fluorescent, neon and cold cathode
Fluorescent:	Designed to control 3-wire fluorescent ballasts
Relay:	Electrically-held mechanical relay for any switched load including motors and HID ballasts

Ordering Information

120 Volt Modules

Model #	Description	BTU	Efficiency (%)	Wt. (lbs)
D10, L10	10A Dual Low-Wattage Dimmer	<10	99.0	2.4
D10F, L10F	10A Single 3-wire Low-Wattage Fluorescent Dimmer	<10	99.0	2.4
D15	15A Dual Universal Dimmer – 350 μ s	380	96.9	5.0
D15E	15A Dual Universal Dimmer – 500 μ s	474	96.1	5.0
D15F	15A Single 3-wire Fluorescent Dimmer	<10	>99.0	2.4
R15	15A Dual Electrically Held Relay	<10	>99.0	2.4
CC15	15A Dual Constant Circuit	<10	>99.0	2.4
D20*	20A Dual Universal Dimmer – 350 μ s	522	96.8	5.0
D20E	20A Dual Universal Dimmer – 500 μ s	810	95.0	5.0
D20F	20A Single 3-wire Fluorescent Dimmer	<10	>99.0	2.4
R20	20A Dual Electrically Held Relay	<10	>99.0	2.4
CC20	20A Dual Constant Circuit	<10	>99.0	2.4
AFM	Air Flow Module	0		1.0

277 Volt Modules

Model #	Description	BTU	Efficiency (%)	Wt. (lbs)
AD5	5A Dual Low-Wattage Dimmer	<10	99.0	2.4
AD5F	5A Single 3-wire Low-Wattage Fluorescent Dimmer	<10	99.0	2.4
AD15	15A Dual Universal Dimmer – 225 μ s	380	96.9	5.0
AD15F	15A Single 3-wire Fluorescent Dimmer	<10	>99.0	2.4
AR15	15A Dual Electrically Held Relay	<10	>99.0	2.4
AD20	20A Dual Universal Dimmer – 225 μ s	522	96.8	5.0
AD20F	20A Single 3-wire Fluorescent Dimmer	<10	>99.0	2.4
AR20	20A Dual Electrically Held Relay	<10	>99.0	2.4

*Product shown above.



DR Series Dimming Racks

The Unison DR Series Dimming Racks offer professional-quality dimming at a fraction of the cost. DR Racks are ideal for use in *any* size hotel, theater, restaurant, or worship facility.



Modular construction

Easy to install

Ships fully pre-wired

High density, small footprint

Backlit control electronics

Main breaker and
single-phase options

Integral RS-232 interface

Voltage regulation

Specification

Mechanical:	Surface mount – 18-gauge formed steel w/hinged, locking door – gray, scratch resistant epoxy paint.
Electrical:	
Input:	3P/4W, 120/208 VAC plus ground – 50/60Hz, max 100A DR6, 10,000A SCCR 3P/4W, 277/480 VAC plus ground – 50/60Hz, 14,000A SCCR 1P/3W, 120/240 VAC plus ground – 50/60Hz, max 200A DR12, 22,000A SCCR
Wiring:	
Internal:	fully prewired
Station:	Link Power: (1) Belden 8471 – Topology free, polarity independent (32 stations), Max run 1500' w/o Repeater Auxiliary 24Vdc: (2) #16AWG – (LCD / PC Connector / Portable Connector / Contact Interface) Max run 1500' w/o Repeater DMX: (1) Belden 9729 – (Console / Moving Light / Scrollers or any DMX device) Max run 1600' Ground: (1) #14AWG
Serial RS232:	(1) Belden 9729 (Max 50')
Ambient:	32–104°F / 0–40°C – 30–90% non-condensing humidity
Control Module:	Modular plug-in assembly constructed of 18-gauge formed steel Integral nine-button membrane overlay and two-line x 20 character LCD and 3.5" disk drive* (*CMEd only)
Control Capacity:	Cmd: 512 dimmers x 512 zones (DMX only control) CMEd: Parameters based on memory usage: maximum 10,000 levels calculated by adding (zones x presets) totals for each room

Ordering Information

Racks

Model #	Description	Dimension (H x W x D)	Wt. (lbs)
DR6-12-120	6 module (12 channel) dimming rack – 120VAC	21.9" x 17" x 9.6"	31
DR12-24-120*	12 module (24 channel) dimming rack – 120VAC	31.0" x 17" x 9.6"	42
DR6-12-277	6 module (12 channel) dimming rack – 277VAC	21.9" x 17" x 9.6"	31
DR12-24-277	12 module (24 channel) dimming rack – 277VAC	31.0" x 17" x 9.6"	42

Note: Racks also available in 230V standard and neutral-disconnect configurations.

Control Modules

Model #	Description
Cmd	Dimming Control Module
CMEd	Dimming Control Module w/Architectural station processor

Rack Options

Model #	Description
1PH6	Single-phase strap kit for DR6
1PH12	Single-phase strap kit for DR12
FLO	Fluorescent Option Board – provides termination for dimmable 4-wire fluorescent ballasts
BYP	Bypass Option Board – provides low cost supplemental egress lighting – UL924 Listed
USAP	Serial Access Protocol Kit

*Product shown above.

For more information

www.etcarchitectural.com



AX Series Auxiliary Racks

AX/M Racks provide primary main circuit-breaker protection for single Unison DR Series Dimming Racks. AX/X Racks facilitate the cross-bussing of two DR Series Racks.



Easy to install

Main Breaker Option

Cross-Buss DR Series Racks

Trip Plug Options

Specification

Mechanical:	Surface rack mount – 18-gauge formed steel – gray, scratch-resistant epoxy paint.
Electrical:	
Input:	3P/4W, 120/208 VAC plus ground – 50/60Hz 3P/4W, 277/480 VAC plus ground – 50/60Hz 1P/3W, 120/240 VAC plus ground – 50/60Hz
Wiring:	Factory-supplied wire harness for rack interwiring
Ambient:	32–104°F / 0–40°C – 30–90% non-condensing humidity
Circuit Bkr:	AX/M Main Breaker Fault Rating 65,000A SCCR @120V 14,000A SCCR @277V

Ordering Information

Auxiliary Racks

Model #	Description	Dimension (H x W x D)	Wt. (lbs)
AX6-M	Main Breaker Rack for DR6-100A/3P**	21.9" x 13" x 9.6"	33
AX12-M*	Main Breaker Rack for DR12-200A/3P**	31.0" x 13" x 9.6"	66
AX12X-M	Main Breaker Rack for (2) DR12 X-bussed–400A/3P	31.0" x 13" x 9.6"	66
AX12X-ML	Main Lug Rack for (2) DR12 X-bussed**	31.0" x 13" x 9.6"	66

Trip Plug Options

Model #	Description
100ATP	100A Trip Plug Assembly (for AX12 racks)
200ATP	200A Trip Plug Assembly (for AX12X racks)

*Product shown above.

**Single-Phase options available.

For more information

www.etcarchitectural.com



ER Series Processing Racks

The Unison ER Series Racks offer centralized control processing for distributed Unison or Sensor dimming systems. ER Series Racks are ideal for larger applications with multiple dimming racks, such as convention centers and hotels.



Easy to install

Fully pre-wired,
surface-mounted racks

19" rack-mount option

Low profile

Backlit control electronics

Integral RS-232 interface

Contact Closure Interface

Networkable

Specification

Mechanical:	Surface or 19" rack mount – 18-gauge formed steel w/hinged locking door – gray, scratch-resistant epoxy paint.
Electrical:	
Input:	1P/2W, 20A, 120VAC plus ground – 50/60Hz 8 amps fully loaded
Wiring:	
Internal:	Fully prewired
Control:	<p>Link Power: (1) Belden 8471 – Topology free, polarity independent (32 stations), Max run 1500' w/o Repeater</p> <p>Auxiliary 24Vdc: (2) #16AWG Max run 1500' w/o Repeater</p> <p>DMX: (1) Belden 9729 – (Console / Moving Light / Scrollers or any DMX device) Max run 1600'</p> <p>Ground: (1) #14AWG stranded</p>
Serial RS232:	(1) Belden 9729 (Max 50')
Ambient:	32–104°F / 0–40°C – 30–90% non-condensing humidity
Control Module:	Modular plug-in assembly constructed of 18-gauge formed steel Integral nine-button membrane overlay and two-line x 20 character LCD and 3.5" disk drive* <small>(*CME and CMEi)</small>
Control Capacity:	Parameters based on memory usage: maximum 10,000 levels calculated by adding (zones x presets) totals for each room

Ordering Information

ER Racks

Model #	Description	Dimension (H x W x D)	Wt. (lbs)
ER4-120*	External Processing Rack – Wall Mt. – 120VAC	16.25" x 15.5" x 7.00"	20
RM	19" Rack Mount Kit	17.50" x 19.0" x 8.63"	12

Note: Racks also available in 230V standard configurations.

Control Modules

Model #	Description
CME	Extended Architectural Control Module
CMEi	Extended Architectural Control Module w/Network Connections

Option Modules

Model #	Description
REP	Repeater Option Module (Required for each additional group of 32 station OR wire runs >1500')
AIR	Blank Airflow Module (Used to fill unused rack spaces)

*Product shown above.

For more information

www.etcarchitectural.com



System Layout – Small

As a combination of dimming and control products, Unison offers a variety of solutions to address your project requirements.

Small Systems

Using Unison in a small church or restaurant makes it easy to recreate that special look, day in and day out. A small system consists of a DR Series dimming rack and Unison remote controls.

Installation

Designed for contractor installation, racks surface-mount and accept single- or three-phase main feeds. Unison controls use “topology-free” Echelon® Link Power wiring. Wire control in any configuration – home run, star, bus or loop.

Recording Presets

Preset looks are simple to program! Adjust each zone of control to the desired level, press the record button and assign look to a recall button. Recall a preset by simply pressing the recall button. It’s that easy!

Button Stations

Designed with 1–10 programmable buttons. Button function options include presets, manual, record, lockout, raise, lower, macro, zone bump, or join/separate.

Fader Stations

Designed with 1–16 programmable faders and 2–12 programmable buttons. Fader function options include master, zone, fade rate, or preset master.

IR Stations

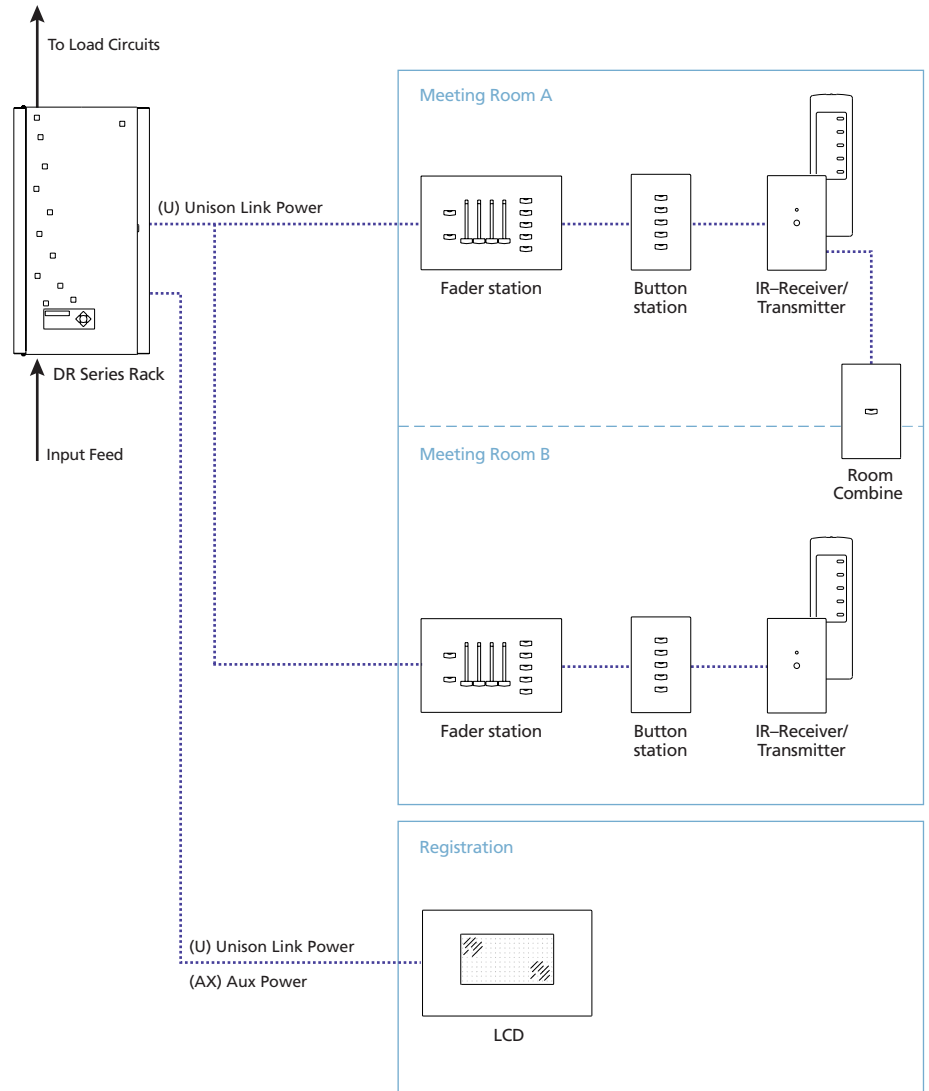
Designed with 5 or 10 fully programmable buttons.

Touchscreen LCD Stations

Designed with 30 programmable tab-styled pages with standard or custom page design (including imported bitmap images). Features integral electronic lockout functionality.

Custom Stations

If a standard station doesn’t meet your needs, our project managers will help you create custom control specifically for your project. Wood, metal, custom... you name it!



System Layout – Large

Room Combine

In rooms with moving partitions, lighting control can be challenging. When the partition is opened, you can manually (by pushing a button) or automatically (via micro-switches) “join” the lighting controls of adjacent rooms. Conversely, when the partition is closed, you can “separate” the lighting control of adjacent rooms.

Astronomical Timeclock

The integral astronomical timeclock can be programmed to automatically select lighting presets based on time of day, relationship to sunrise or sunset or periodic interval.

Integration

Ballrooms and meeting rooms often require the use of an entertainment-style lighting console. Unison’s integral DMX prioritizer allows you to program your room on a zone-by-zone basis to automatically relinquish control when a console is plugged in.

Dry Contact Interface

With Unison, you can send or receive dry-contact closures to/from peripheral equipment such as multi-level photocells, motion sensors, partition sensors or AV systems.

Serial Interface

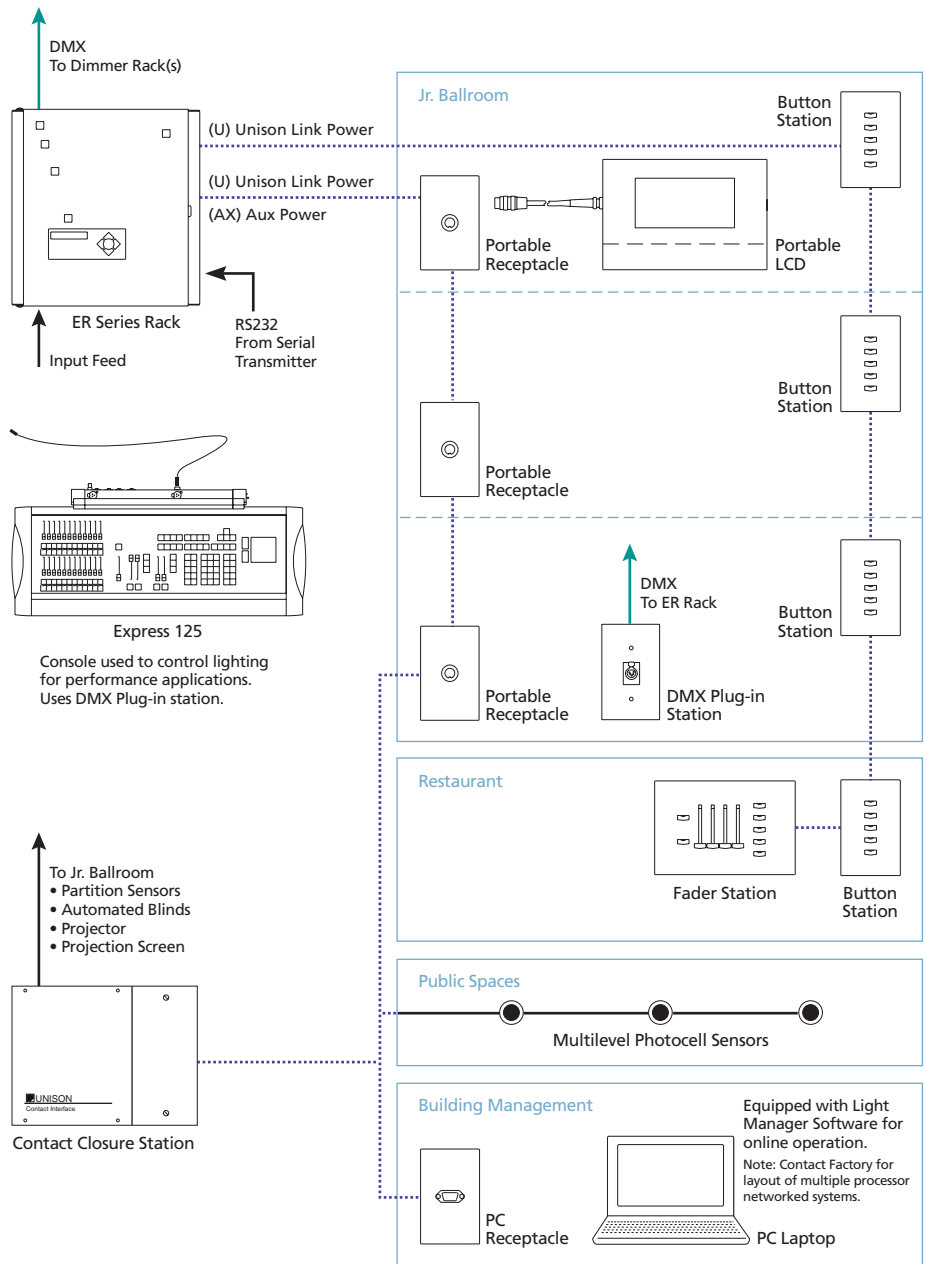
A lighting system should make control easier. The Unison Serial Access Protocol or AV/Serial station receives serial command strings from an AV or building-automation system to activate presets, macros or control individual zones.

Networking

Connect multiple control processors on an ETCNet2™ network to control systems with over 512 dimmers.

Large Systems

In large systems such as hotels and convention centers, Unison simplifies the integration of other control equipment such as audio/visual, building-automation or entertainment controls. A typical large system may consist of multiple DR or SR Series dimming racks, an ER Series control rack, a variety of Unison controls, and various peripheral devices such as consoles, photo-sensors or AV equipment.



System Wiring

(U) Link Power

(U) Link Power

Link Power is an Echelon® communications protocol used in Unison control systems. Link Power allows topology-free and polarity-independent wiring. This means you can wire in any configuration – star, bus, or loop.

Guidelines	Link Power
Wire Type:	(1) Belden #8471 (1) #14AWG stranded (ground)
Maximum wire length (w/o repeater)	1500'

(AX) Auxiliary Power

(AX) Auxiliary Power

24Vdc auxiliary power is required for LCD, PC interface, portable receptacle and contact-closure stations. The AX power supply is located in the control module in the DR or ER Series rack. Auxiliary power is always used in conjunction with Link Power.

Guidelines	AX Power
Wire Type:	(2) #16 AWG
Maximum wire length (w/o repeater)	1500'

(D) DMX

(D) DMX

DMX refers to DMX-512, the entertainment-industry standard protocol originally designed for communication between dimmers and controls. DMX has been widely adopted by the lighting industry and is commonly used for control of LEDs, fiber optic illuminators, moving lights, color scrollers and other devices.

Guidelines	DMX
Wire Type:	(1) Belden #9729
Maximum wire	1600'

(R) RS232

(R) RS232

RS232 is a serial communications protocol that is used to allow communication between, and control of, different types of equipment.

Guidelines	RS232
Wire Type:	(1) Belden #9729
Maximum wire	50'

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Light Manager™

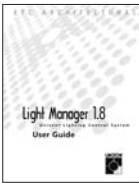

Light Manager is a Windows™-based programming software used for initial system configuration and online system operation. Light Manager configurations provide basic system parameters such as quantity of rooms, presets and zones. Configurations are downloaded to the Unison processor via the 3.5" disk drive or via network connection.

Specification

PC Requirements: Pentium 90 or better with a minimum of 16MB RAM and 10MB free hard-drive
Windows 95 or Windows 98 operating system
VGA monitor, 3.5" hard drive and mouse

Ordering Information

Light Manager

	Model #	Description
	LM	Light Manager Disk/Manual/Site License/Training
	U1RSP - __F	PC Connector

Easy system configuration

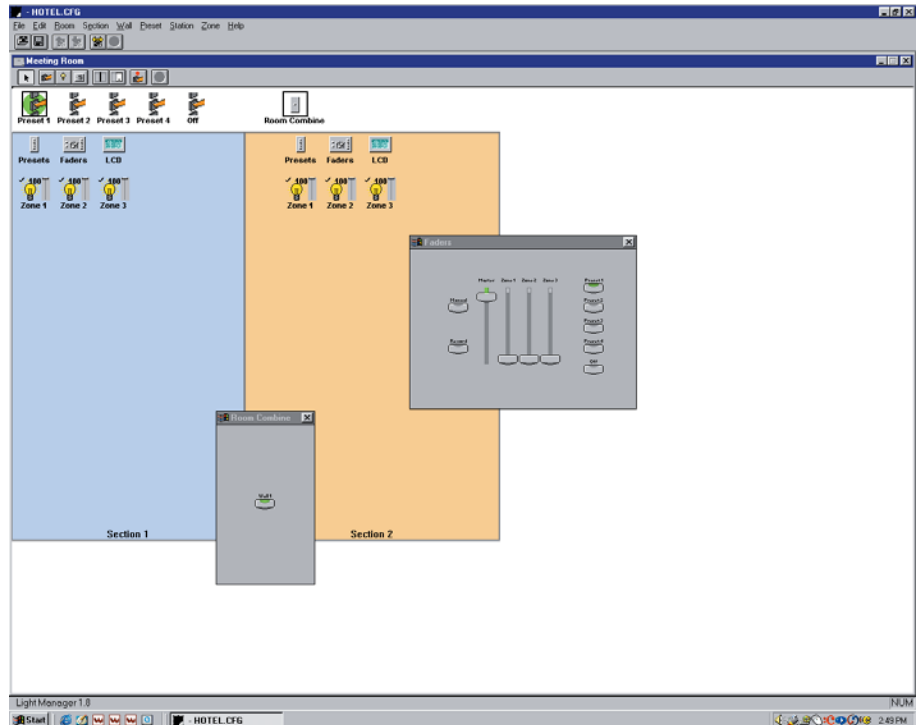
Graphical user interface

Integral astronomical timeclock

Programmable buttons and faders

Macro sequencing

Multilevel electronic security



For more information

www.etcarchitectural.com



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Networking Tools

In applications where dimmer and station quantities exceed single-processor limitations, or when an architectural system requires integration with ETC Entertainment equipment, use ETCNet2™ networking. Simply put, a network is a collection of devices that are connected via a standard Ethernet switch. Networks are designed to utilize a common set of communication “languages.” In addition to scalability, an ETCNet2 network offers simplified wiring, centralized operation and unsurpassed integration of architectural and entertainment controls. Below is an overview of ETCNet2 Tools. Contact your local ETC Representative for assistance in network system layout.

Unison CMEi



CMEi – Unison Control Module: Extended with network connections

The CMEi is the Unison architectural control module used in network applications. The CMEi mounts in an ER Series control rack. The CMEi consists of the architectural processor, the associated power supplies and the Ethernet control connector. The CMEi supports termination of UTP-10Base-T wiring.

Net3 4-Port Gateway



Net3 4-Port Gateway

The Net3 4-Port Gateway is a DMX data distribution device designed to take advantage of the quality and reliability of ETC’s network development, built for both the proven ETCNet2 protocols and the new industry standard ACN. An Ethernet-native network device, the Net3 4-Port Gateway uses bi-directional communication with other network devices to send/receive DMX512 digital signals via the four configurable ports on the rear of the unit. The DMX ports can be individually configured to be either inputs (receive DMX from a console or other DMX source and put on the network) or outputs (receive information from the network and create DMX for other devices).

Congo



ETC Consoles

In architectural application, ETC consoles like the new Eos™ and Congo™ can be used for programming a venue’s lighting control, which can then be transferred to a rack-mountable lighting playback controller. Console features include ETCNet2 and Net3 (ACN) networking compatibility, high channel counts and output capacities, integrated fixed-focus (conventional) and moving light controls, multiple cue lists, dynamic effects and timecode programs. Both systems offer the option to use two consoles or lighting playback controller units to provide full backup.

Eos



Switch

The Hub/Switch is a network device required for the connection of ETCNet2 devices. Both devices typically consist of (4–24) RJ-45 Ethernet ports. The Hub transmits network data across all ports while a Switch allows for varying levels of data management across ports.

Switch



Ethernet Tap



Ethernet Tap

The Ethernet Tap provides a wall-mounted connection to your ETCNet2 system.

A selection of ETC Architectural installations

- **Asprey Store, Trump Tower**
New York, New York
- **Canadian Museum of Civilization**
Ottawa, Ontario
- **Cerritos Library**
Cerritos, California
- **Copenhagen Opera House**
Copenhagen, Denmark
- **Copia: The American Center for Wine, Food, and the Arts**
Napa, California
- **Crown Fountain, Millennium Park**
Chicago, Illinois
- **Disney themeparks**
Worldwide
- **Hålogaland Theater**
Tromsø, Norway
- **Holland Performing Arts Center**
Omaha, Nebraska
- **Imperial Palace Hotel**
Seoul, South Korea
- **Maumee River Crossing Bridge**
Toledo, Ohio
- **The Museum of Russian Art**
Minneapolis, Minnesota
- **Overture Center for the Arts**
Madison, Wisconsin
- **Ruth's Chris Steakhouse**
St. Louis, Missouri
- **Schiphol Airport**
Amsterdam, The Netherlands
- **United Nations Assembly Hall**
New York, New York
- **United States Air Force Museum**
Dayton, Ohio
- **Venetian Hotel and Casino**
Las Vegas, Nevada
- **Wynn Las Vegas**
Las Vegas, Nevada

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- (6) Sensor SR48 Dimmer Racks
- (180) Sensor D20DHR Modules
- (2) 48-Circuit Relay Panels
- (96) Circuits of Emergency Transfer (ELTS)
- (8) Custom Unison LCD Stations with Macro Controls
- (2) Portable Unison LCD Stations
- (2) Unison ER4 Processor Racks
- (2) Unison CMEi Control Modules
- (40) Custom Unison worklight button stations
- (17) Custom Unison houselight button stations
- (50) Custom distribution wallplates
- (31) Source Four jr ellipsoidals
- (1) Unison Light Manager Software
- (1) Network Configuration Editor (NCE)
- (24) Sensor D20E Modules

Extensive additional ETC lighting equipment in Overture Hall and Promenade Hall, including Emphasis Control System, ETCNet2 network, Source Four fixtures, Sensor dimming, and ETC distribution.



Overture Center for the Arts, Madison, Wisconsin
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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 +39 (06) 32 656 990

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 605-606, Tower III Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325

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