Somers Public Schools
Request for Proposals

Somers High School Auditorium
Lighting Project

March 18, 2019

Somers High School Auditorium Lighting Project Proposal Form

Name of Company: __Supertech Inc.__

Name of Owner / Authorized Person: __Steven M. Hamelin__

Mailing Address: __22 North Plains Industrial Rd., Suite #4__

Telephone Number: __203-294-9400__   Email Address: __s.hamlein@supertech-inc.com__

Contact Person: __Steven M. Hamelin__   Title: __President__

Tax ID. # __06-1345020__

> ➢ The design is to be provided in accordance with Scope of Services and Specifications
> ➢ The Contractor shall provide all material and equipment to perform the contract responsibilities.
> ➢ Payments to the Contractor will be made within 30 days of the receipt of invoices presented to the Somers Public Schools Business Office.
> ➢ The contract includes a provision that it may be nullified at any time by the Somers Public Schools for cause.
> ➢ Contractor will be penalized $1000 per day for each day the work is not completed by August 19, 2019
> ➢ Valid insurance certificates must be provided annually and at other times at the request of Somers Public Schools.

A complete proposal package shall include:
1. This form, completed and signed
2. A detailed and itemized proposal form
3. Equipment information including detailed specifications
4. Copies of Insurance Certificates
5. The names and contact information for 3 references: Customers where auditorium lighting projects have been performed in the past 2 years to include Contact Name, Address, Phone Number and email. Public school or similar sized clients preferred.
6. A short narrative statement detailing the firm's history, the number of employees, the type and quantity of equipment that has been worked on in the past.

Under penalty of perjury and other remedies available to the Somers Public Schools, the undersigned certifies this proposal is submitted without collusion and all responses are true and accurate. If awarded this contract it is agreed this forms a contractual obligation to provide services at fees specified and in accordance with the terms and conditions presented in this Proposal, including any addenda, which are all made part of this proposal.

(signature)	Steven M. Hamelin	President	April 8, 2019
Signature	Printed Name	Title	Date

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Somers High School Auditorium Lighting Project

Base Bid for Work Described in Scope of Services and Specifications $197,390.20
      (includes vendor removal of existing equipment, installation of
      new equipment, commissioning and training)

Itemized Breakdown
      Installation of new front and rear projection main stage screen $11,622.28

      Replacement of stage main curtain $8,482.00
      (Valance and main drapery replacement)

      Price per spare ETC LED Instrument each CS Spot with Lens tube,
      Clamp, safety cable and Edison plug $1375.20

Name of Company _Supertech Inc._

Name of Owner/Authorized Person _Steven M. Hamelin_

Title of Owner/Authorized Person _President_

Signature of Owner/Authorized Person _[signature]_

Date _April 8, 2019_

<div align="center">END OF BID</div>

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/17/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER		
J. P. Svendsen Agency 27 Lucy St. Woodbridge, CT 06525	CONTACT NAME: **Jon Svendsen**	
	PHONE (A/C, No, Ext): **(203) 397-3993**	FAX (A/C, No): **(203) 389-9540**
	E-MAIL ADDRESS: **jon@svendseninsurance.com**	
	PRODUCER CUSTOMER ID #: **3548**	

	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED **SUPERTECH INC** **22 NORTH PLAINS INDUSTRIAL RD #4** **Wallingford, CT 06492**	INSURER A : **Utica National Insurance**	**10687**
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES   CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR			**4811413**	**10/18/2017**	**10/18/2018**	EACH OCCURRENCE	$ **1,000,000**
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ **1,000,000**
							MED EXP (Any one person)	$ **10,000**
							PERSONAL & ADV INJURY	$ **1,000,000**
							GENERAL AGGREGATE	$ **2,000,000**
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ **2,000,000**
								$
A	**AUTOMOBILE LIABILITY** ANY AUTO ALL OWNED AUTOS X SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			**4808022**	**10/18/2017**	**10/18/2018**	COMBINED SINGLE LIMIT (Ea accident)	$ **1,000,000**
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
								$
A	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DEDUCTIBLE X RETENTION $ **10,000**			**4811414**	**10/18/2017**	**10/18/2018**	EACH OCCURRENCE	$ **5,000,000**
							AGGREGATE	$ **5,000,000**
								$
								$
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		**4808017**	**10/18/2017**	**10/18/2018**	WC STATU-TORY LIMITS X OTH-ER	
							E.L. EACH ACCIDENT	$ **500,000**
							E.L. DISEASE - EA EMPLOYEE	$ **500,000**
							E.L. DISEASE - POLICY LIMIT	$ **1,000,000**
A	**BUSINESS PERS.PROP-OTHERS**			**4811413**	**10/18/2017**	**10/18/2018**	**$150,000**	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION
Supertech, Inc. **22 North Plains Industrial Rd** **STE #4** **Wallingford, CT 06492**	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE *Kelly Becker* <DA>

ACORD 25 (2009/09)   The ACORD name and logo are registered marks of ACORD

22 North Plains Industrial Rd.
Suite #4
Wallingford, CT 06492
Telephone: (203) 294-9400
Fax: (203) 294-9404
www.supertech-inc.com

SUPERTECH, INC. PROFILE AND CREDENTIALS:

Supertech, Inc. has operated as a dealer/distributor and system integrator of theatrical dimming and lighting systems, studio lighting and rigging systems, and motorized and manual theatrical rigging systems, including rigging and drapery installations since 1992. Supertech utilizes experienced licensed electricians and ETCP certified riggers for installation of our products.

Our Wallingford, CT facility has 6,200 square feet of office and warehouse space, as well as a fully configured service center. We are a dealer/distributor for multiple theatrical, studio and architectural lighting, dimming and control lines including ETC, Strand Lighting, VariLight, Leviton, Altman Stage Lighting, Brightline, Chauvet, City Theatrical, Color Kinetics, Desisti, Elation, Interactive Technologies, Lex Products, LitePanels, Lycian, Martin Professional, Osram/Sylvania, Robert Juliat, SSRC, the Light Source, Chroma-Q, Leprecon, and others. Supertech, Inc. is an authorized service center for ETC, Strand Lighting, and others.

Supertech, Inc. is a dealer and service center for ETC motorized rigging, Thern Stage Equipment, Desisti Rigging, J.R. Clancy, ADC, and stage draperies from Northeast Stage.

PERSONNEL:

Steven Hamelin, President

Steve Hamelin started and has owned and operated the business since 1992. For two years prior to starting the company, he worked as the director of operations for Theater Techniques Inc. (TTI). Prior to that, he was in the professional lighting business working for multiple companies, as a lighting crew chief, with touring acts including Bruce Springsteen, Michael Jackson, Elton John, Kenny Rogers, Yes, Simon and Garfunkel, and David Bowie. He is also an authorized service technician for Electronic Theater Controls (ETC) and Strand Lighting.

Todd Paskin, Project Manager

Todd Paskin has been a Supertech employee since the company was founded in 1992. He graduated the Connecticut School of Electronics in 1997. He is a certified CompTIA A+ computer technician and N+ network technician. Todd has completed factory training and is an authorized service technician for ETC and High End Systems. He has had many years of field service and on-site experience, prior to becoming a Supertech project manager. He has been project manager on numerous jobs including the WCSU Performing Arts Center, ECSU Fine Arts Center, The Morgan School, Berlin High School, Waterford High School, Basketball Hall of Fame, Bushnell Belding Theater, Weston High School, Middletown High School, Hartford Classical Magnet School, the Regional Center for the Arts, North Haven High School, Hamden Middle School and others.

Tony Stubbs, Purchasing

Tony Stubbs started as warehouse manager, coordinating delivery of materials on all Supertech projects. Since 2005, he has handled all purchasing for the company. Tony also has completed factory training and is an authorized service technician for ETC.

Ben Haverkampf, Service Technician

Ben has completed factory training and is an authorized service technician for ETC. He handles factory commissioning and programming of ETC lighting systems, service and repairs, and is a licensed CT E2 electrician.

PROJECTS:

Wallingford Public Schools / Four School Project
Dag Hammarskjold MS, James H Moran MS, Mark T. Sheehan HS, Lyman Hall HS

- Installation of LED stage lighting control systems, stage lighting distribution system, stage lighting network.
- Installation of motorized and dead hung rigging, stage curtains and tracks.
- Installation of LED stage lighting.

Quinnipiac University / Performing Arts Center

- Installation of LED stage lighting control systems, stage lighting distribution system, stage lighting network.
- Installation of lighting grids, stage curtains and tracks.
- Installation of LED stage lighting.

Sacred Heart University / Edgerton Auditorium Renovation

- Installation of LED stage lighting control systems, stage lighting distribution system.
- Installation of LED house lighting systems, emergency lighting systems
- Design and installation of LED stage lighting.
- Installation of Vortek motorized rigging systems with twelve line sets.
- Installation of stage curtain and track systems.
- Installation of audio-visual and projection systems.

Wall Street Theater / Historic Theater Renovation

- Installation of LED stage lighting control systems, stage lighting distribution system.
- Installation of LED house lighting systems, emergency lighting systems, company switches.
- Installation of J.R. Clancy counterweight rigging systems with nineteen line sets.
- Installation of stage curtain and track systems, fire curtain system.

Eastern Connecticut State University Fine Arts Instructional Center

- ETC LED lighting systems.

Yale University Center for British Arts

- ETC lighting control and dimming systems.

Western Connecticut State University Performing Arts Center

- ETC lighting control and dimming systems.

Wesleyan University – Cross St Dance Studio

- Installation of studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

University of Bridgeport

- Installation of ETC lighting control and dimming system, new stage distribution system.
- Installation of JR Clancy counterweight rigging system, fire curtain system.

Middlesex Community College

- Installation of ETC studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

Hall High School

- Installation of ETC lighting control and stage distribution systems.
- Conventional and LED upgrades to stage lighting system.

CPTV

- Installation of ETC studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

Levitt Pavillon

- Installation of ETC lighting control systems, SSRC distribution system.
- LED outdoor lighting.

Westhill High School

- Installation of ETC lighting control, dimming, and distribution systems.
- Upgrades to electrical services.

New Britain High School

- Installation of LED House Lighting System.
- LED Upgrades to stage lighting system.

Central Connecticut State University Performing Arts Center

- ETC lighting control and dimming systems.

ACES – Little Theater

- ETC lighting control and dimming systems.

Sacred Heart University / School of Business and Communications

- Installation of studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

Nutmeg TV

- Installation of ETC studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

University of Connecticut – Ballard Institute and Museum of Puppetry

- Installation of lighting control systems, studio distribution system.
- LED Studio lighting.

Focus Springfield

- Installation of ETC studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

Back Nine Network

- Installation of ETC studio lighting control systems, studio distribution system.
- LED Studio lighting.
- Installation of lighting grid, studio curtains and track.

Waterford High School

- ETC lighting control and dimming systems.
- Installation of Daktronics Vortek rigging system.

Choate Rosemary Hall

- Installation of ETC lighting controls and dimming systems.
- Installation OF ETC Prodigy motorized rigging systems.

Stamford Train Station
- Design and Installation of LED architectural lighting systems and controls.

Weston High School
- Installation of ETC lighting control and dimming systems.
- Installation of Vortek rigging system, stage drapes, and removable staging platforms for orchestra pit.

Jonathan Law High School
- Installation of ETC lighting control system.
- Installation of LED theatrical lighting.
- Installation of ETC Prodigy motorized rigging system, new stage distribution system.
- Installation of theatrical stage curtains.

Fairfield University – Regina Quick Center for the Arts
- Installation of ETC lighting control and dimming systems.
- Installation of Vortek motorized rigging systems with twenty-two line sets.
- Replacement of Austrian drape rigging.

Trumbull High School
- ETC lighting control and dimming systems.

Greenwich Country Day School
- ETC lighting control and dimming systems.

Norwich Technical High School
- ETC lighting control and dimming systems.

Mohegan Sun Casino
- Lighting, lighting control and dimming systems.

Bushnell Center for the Performing Arts - Belding Theater, Mortensen Hall
- ETC lighting control and dimming system, stage distribution system.
- ETC Control system upgrades, LED upgrades.

Basketball Hall of Fame
- Exhibit lighting and control systems for all interior lighting and exterior LED fixtures.

Hartford Civic Center (XL Center)
- Updated lighting control systems.
- Upgraded arena lighting to energy efficient fixtures.

Quinnipiac University TD Athletic Center
- Crestron lighting control systems.

Western Connecticut State University Berkshire Theater
- Installation of counterweight rigging system.

University of Rhode Island
- Installation TV studio grid and studio lighting systems.

Katharine Hepburn Theater
- ETC lighting control and dimming systems.

Pomperaug High School
- Installation of Strand lighting control and dimming system.
- Installation of Vortek rigging system, new stage distribution system.

CES Regional Center for the Arts
- Strand lighting control and dimming system.

Middletown High School
- ETC lighting control and dimming systems, stage distribution system.

Plainville High School
- Installation of ETC lighting control and dimming system, stage distribution system.
- Upgrade of counterweight rigging system, upgrade of catwalk system to code.

University of Connecticut / Nafe Katter Theater
- ETC lighting control, dimming, and distribution system.

Walnut Hill Community Church
- Design consultant for church expansion.
- Installation of ETC lighting control and dimming system, stage distribution system.
- Installation of counterweight rigging system and stage drapes.

Farmington High School
- Installation of ETC lighting control, dimming, and distribution systems.

REFERENCES:

Wallingford Public Schools
Wallingford Public Schools
Buildings and Grounds
12 Kondracki Lane
Wallingford, CT 06492
(203) 294-3785
Contact: Richard K. Voelker, RA

Sacred Heart University
5151 Park Ave,
Fairfield, CT 06825
(203) 371-7999
Contact: Mark Izzo

Waterford High School
20 Rope Ferry Rd.
Waterford, CT 06385
(860) 437-6956 Ext.728
Contact: Shane Valle

Fairfield University – Regina Quick Center for the Arts
North Benson Road
1073 Fairfield, CT 06824
(203) 254-4000 ext. 2990
Contact: Russ Nagy

Central Connecticut State University - Welte Auditorium
1615 Stanley Street
New Britain, CT 06050
(860) 832-1966
Contact: Scott McKenna

SUPERTECH, INC. SELLS THE PRODUCTS OF THESE FINE MANUFACTURERS:

ADC (Automatic Devices Co.)
Altman Stage Lighting
Anixter / Pacer Wire & Cable
Apollo Design Technology
Applied Electronics
Brightline Studio Fixtures
Bulbtronics
CBI Cables
Chauvet Professional
Chroma-Q
City Theatrical
Color Kinetics
Desisti Lighting
Doug Fleenor Design
Dracast
ETC (Electronic Theater Controls)
Elation Lighting
Fred Krieger & Co
Green LED Lighting
H & H Specialties
Hall Stage
High End Systems
Iluminarc
Interactive Technologies
JR Clancy
LeMaitre USA
Leprecon
Leviton
Lex Products
LitePanels
Lycian Stage Lighting
Magna Steel
Martin Professional
Matthews Studio Equipment
Milestone / Raxxess
NorthEast Stage
Osram Sylvania
Pathway Connectivity
Peak Trading
Pharos Lighting
Philips Lighting
Phoebus Manufacturing
Pro Cyc, Inc.
Robert Juliat
Rosco
Rose Brand
SSRC
StageRight
Strand Lighting
TCP
The Light Source
Thern, Inc.
Vari-Light

Somers High School
Somers, CT

RFP - Auditorium Lighting System

April 2019

22 North Plains Industrial Road
Suite 4
Wallingford, CT 06492
Telephone #:   203-294-9400
Fax #:   203-294-9404

BILL OF MATERIALS

Supertech

22 North Plains Industrial Rd. Suite #4
Wallingford, CT 06492
203-294-9400 / 203-294-9404 fax
www.supertech-inc.com

DATE	QUOTE #
4/8/2019	Q2019035-B

NAME / ADDRESS
Somers Board of Education 1 Vision Boulevard Somers, CT 06071 Attn: Robert Hall

PROJECT	Q2017166 / Somers HS Lighting Upgrade
CONTACT	Robert Hall
CONTACT #	860-749-2270
SALES REP	Steven Hamelin
TERMS	Net 30

1) THIS BILL OF MATERIALS IS BASED UPON OUR INTERPRETATION OF PARTIAL PLANS AND/OR SPECIFICATIONS, OR A LIST OF REQUIRED EQUIPMENT. ORDERS PLACED FOR THIS PROJECT WILL ONLY BE ACCEPTED PER OUR BILL OF MATERIALS, AND NOT PER PLANS AND SPECIFICATIONS. ALL RIGGING AND PIPE IS BY OTHERS UNLESS INCLUDED IN THE BILL OF MATERIALS LISTED BELOW.
2) DRAWINGS FOR APPROVAL AND ENGINEERING CHECKOUT ARE INCLUDED. FREIGHT IS ALLOWED TO THE JOB SITE.
3) ALL INSTALLATION IS PROVIDED BY OTHERS. FACTORY ENGINEER TO ENERGIZE SYSTEM IS INCLUDED.
4) THIS QUOTATION IS VALID FOR 60 DAYS. ALL APPLICABLE TAXES OR PERMIT FEES, IF ANY, ARE ADDITIONAL.
5) PLEASE CALL (203) 294-9400 FOR QUESTIONS OR CHANGES.

ITEM #	QUANTITY	DESCRIPTION
000	1	Stage Lighting Upgrade & Accessories for Somers High School w/ The Following Items:
100	1	STAGE POWER SYSTEM:
101	1	ETC IQ48 Sensor IQ Mains Feed Wall Mount Panel to Contain: (3)-Phase 120/208V; 200A; (48)-Pole Breaker Sub Panel w/ No Breakers, (5)-2x250MCM, Main Lugs w/ Option for Main Breaker, (1)-Built-in Sequencer (1)-DMX Interface, (1)-Astro & Realtime Timeclock, (1)-Net interface
102	1	ETC IQ DOOR 120-48S Sensor IQ Door, for Surface Mount (48)-Circuit Panel
103	1	ETC IQ-MB200A65K-B Sensor IQ Bottom Feed 200A 65kA (3)-Phase Main Breaker
104	48	ETC IQ SM B20 Sensor IQ 120V 20A Single Pole Intelligent Breaker w/ Relay Includes Reporting for Current, Breaker Trip, & Relay State
200	1	HOUSE LIGHT DIMMING SYSTEM:
201	1	ETC DRd12-24-120 Unison Dimming Enclosure
202	1	ETC P-DRd-TK Paradigm Termination Kit
203	1	ETC P-ACP2 Paradigm Architectural Control Processor
204	1	ETC P-SPM Paradigm Station Power Module
205	4	ETC D20 Dual 20 A Dimmer Module
206	8	ETC ELV10 Dual 10A Electronic Reverse Phase Module

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ITEM #	QUANTITY	DESCRIPTION
300	1	ARCHITECTURAL CONTROL SYSTEM:
301	3	ETC UH10005-41S Unison Heritage Preset Station w/ (5)-Buttons, Surface Mount, Color Black
302	3	ETC SL-1B Single Gang Sliding Locking Cover, Surface Mount, Color Black
303	2	ETC P-TS7-4 Paradigm 7" Touch Screen Station, Surface Mount, Color Black
304	2	ETC P-TS7-SBB Paradigm Touch Screen Locking Surface Mount Back Box, Color Black
305	2	ETC P-LCD-LC-4 Paradigm Touch Screen Locking Cover, Color Black
306	3	ETC BB-1S Single Gang Surface Mount Back Box, Color Black
400	1	NETWORK CONTROL EQUIPMENT RACK:
401	1	Lowell LWR-1223 Swivel Wall Equipment Rack, (12)-Spaces, w/ Plexi-Locking Door, Color Black
402	1	Furman M-8LX Surge Arrester w/ (9)-Edison Outlets, & Pull Out Lights
403	1	Tripp Lite (24)-Port Cat5e Patch Panel 568B
404	1	APC 1U Cable Pass Through w/ Brush Strip, Color Black
405	1	NETGEAR #FS728TP-100NAS ProSafe (24)-Port Gigabit Smart Switch w/ PoE & 4 SFP Ports
406	24	Cat5e RJ45 Patch Cable @ 2'
407	1	Lowell UDEL-(3)-Space Rack Mount Drawer w/ Lock
408	1	Tripp Lite SmartPro LCD Rackmount UPS 1200VA 120V w/ (8)-Edison Outlets

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ITEM #	QUANTITY	DESCRIPTION
500	1	CONSOLE CONTROL SYSTEM:
501	1	ETC ION XE 20 2K-US Lighting Console (2,048-Outputs) w/ Dust Cover, (2)-Active Display Port to DVI Adapters, Mouse, External Alpha-Numeric Keyboard, Locking Power Cord & (1)-LED Littlelite
502	2	Dell P2418HT 23.8 Inch Touch Screen LED-Lit Console Display Monitor w/ M/M DVI Signal Cable @ 6'
503	1	NET M/M RJ45 Ethernet Extension Cable @ 25'
504	2	ETC ECPB NET/NET Control Plug In Station, Surface Mount, Color Black
505	12	ETC N31TG-1F One-Port Touring DMX Output Gateway w/ (1)-DMX Output, Back Box, C-Clamp, Safety Cable, Color Black

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ITEM #	QUANTITY	DESCRIPTION
600	1	ELECTRICAL DISTRIBUTION SYSTEM:
601	2	SSRC PM-2/2-520PT-NET Pipe Mount Pigtail Box w/ (2)-18" Edison Pigtails, On (2)-20 Amp Circuit, (1)-RJ45 Connector & Pipe Mount Hardware
602	2	SSRC BAL-10-3/6-520PT-NET Connector Strip 10' w/ (4)-18" Edison Pigtails, (2)-48" Edison Pigtails, On (3)-20 Amp Circuits, (1)-RJ45 Connector & Wall Mount Hardware
603	2	SSRC BAL-44-6/18-520PT-NET Connector Strip 44' w/ (18)-18" Edison Pigtails, On (6)-20 Amp Circuits, (1)-RJ45 Connector & Double Pipe Hardware
604	6	SSRC FP-2/4-520R-NET Floor Pocket (Insert -Only) w/ (4)-Edison Flush Connectors, On (2)-20 Amp Circuits, (1)-RJ45 Connector
605	2	SSRC GB-6 Grid Iron Junction Box for (6)-20 Amp Circuits w/ NET
606	2	SSRC 12/14 SO Multi-Cable @ 25'
607	4	SSRC #515 Box Type Strain Relief
608	2	SSRC CC2 Large Cable Cradle
609	2	SSRC CCP Cable Clamp
610	2	NET M/M XLR Heavy Duty Ethernet Extension Cables @ 25'
611	2	SSRC 6X10TP (10'X10") Tormentor Pipe, Color Black
612	2	SSRC 10X10TP (10'X10") Tormentor Pipe, Color Black
613	24	Hubbell HBL5969VBLK Valise Edison Connector, Color Black
614	1	Stage Lighting Distribution Label Set

BILL OF MATERIALS

Supertech

22 North Plains Industrial Rd. Suite #4
Wallingford, CT 06492
203-294-9400 / 203-294-9404 fax
www.supertech-inc.com

DATE	QUOTE #
4/8/2019	Q2019035-B

NAME / ADDRESS
Somers Board of Education 1 Vision Boulevard Somers, CT 06071 Attn: Robert Hall

PROJECT	Q2017166 / Somers HS Lighting Upgrade
CONTACT	Robert Hall
CONTACT #	860-749-2270
SALES REP	Steven Hamelin
TERMS	Net 30

1) THIS BILL OF MATERIALS IS BASED UPON OUR INTERPRETATION OF PARTIAL PLANS AND/OR SPECIFICATIONS, OR A LIST OF REQUIRED EQUIPMENT. ORDERS PLACED FOR THIS PROJECT WILL ONLY BE ACCEPTED PER OUR BILL OF MATERIALS, AND NOT PER PLANS AND SPECIFICATIONS. ALL RIGGING AND PIPE IS BY OTHERS UNLESS INCLUDED IN THE BILL OF MATERIALS LISTED BELOW.
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ITEM #	QUANTITY	DESCRIPTION
700	1	INSTALLATION SERVICES:
701	1	Remove Existing Lighting Fixtures from Electrics
702	1	Remove Existing Lighting Fixtures from Box Booms
703	1	Remove All Existing Stage Electrical Distribution
704	1	Remove Existing Dimmer Rack
705	1	Install IQ48 Relay Panel
706	1	Install DRd12 House Light Dimmer Rack
707	1	Route Existing Load Conduits to Trough & Panels
708	1	Install Breaker Panel to Feed Rack Utilizing Existing Feeds
709	1	Route Existing Feed Wires to Breaker Panel
710	1	Terminate All Load Wires
711	1	Install Equipment Rack in Booth, Power from Local Panel
712	1	Install Cat5 Over Ceiling, to (2)-Catwalk, (2)-Box Boom
713	1	Install Cat5 in Conduit to (4)-Stage Electrics, (1)-Stage Left, & (1)-Stage Right
714	1	Install Cat5 Control Plug-In (2)-Booth, for Console & Paradigm Touch Screen, Stage Right Paradigm Touch Screen & Rear of House Paradigm Touch Screen
715	1	Replace Entry Stations & Install New Control Cable
716	1	Replace Existing Connector Strips w/ Edison Connectors, (1)-Stage Electric & FOH Catwalk
717	1	Install New Circuit Numbers on Strips
718	1	Run Conduit from Existing Circuits on Catwalk to Box Boom Locations
719	1	Install (3)-Circuits Each Side & Terminate
720	1	Install (2)-Box Boom Pipes Horizontal at Each Overhang at Existing Box Boom

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ITEM #	QUANTITY	DESCRIPTION
721	1	Install (2)-Box Boom 10' Connector Strips
722	1	Install (2)-Stage 44' Connector Strips, Reusing Existing Rigging Pipes
723	1	Install New Stage Grid Iron Junction Boxes & Multi-Cable
724	1	Install (12)-LED Stage Work Light @ 4'
725	1	Remove Existing House Light Lamps
726	1	Repair Existing Socket As Needed
727	1	Install LED House Light Lamps
728	1	Complete System Test...
729	1	Performance Hang Focus...
730	1	Electrical Labor...
731	1	Electrical Materials...
732	1	Personnel Lifts, Scaffolding
733	1	System Integration, Commissioning, Programming, Low Voltage Terminations, & System End User Training

BILL OF MATERIALS

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ITEM #	QUANTITY	DESCRIPTION
800	1	STAGE LIGHTING FIXTURES:
801	50	ETC CSSPOTS-A ColorSource Spot Light Engine w/ Barrel, Assembly (BLACK) w/ C-Clamp, Safety Cable, Soft Diffuser, "A"-Size Pattern Holder, & PowerCon to Edison Power Input Cable
802	12	ETC 419LT Source Four (19)-Degree Lens Tube w/ Lens Installed
803	16	ETC 426LT Source Four (26)-Degree Lens Tube w/ Lens Installed
804	12	ETC 436LT Source Four (36)-Degree Lens Tube w/ Lens Installed
805	10	ETC 450LT Source Four (50)-Degree Lens Tube w/ Lens Installed
806	10	City Theatrical #2160 S4 "B"-Size Sandwich Template Holder
807	15	ETC CSPAR ColorSource PAR LED Wash Fixture w/ Hanging Yoke, C-Clamp, Safety Cable, & PowerCON to Edison Power Cord
808	15	ETC SELOW-7.5 D40 Wide Oval Diffuser
809	15	ETC SELOM-7.5 D40 Medium Oval Diffuser
810	7	ETC CSCYC Color Source Cyclorama Fixture w/ Hanging Yoke, C-Clamp, Safety Cable, & PowerCON to Edison Power Cord
811	85	DMX M/F XLR Extension Cable @ 10'
812	77	PowerCon to PowerCon Extension Cable @ 10'
813	8	City Theatrical #210 Safer Side Arm w/ 1.5" Pipe @ 24"
814	6	Lex Products Male DMX Termination Connector
900	1	STAGE WORK LIGHTS:
901	12	Lithonia Lighting LED Strip Light, Direct Wire, 4K, 50 Watt, 4500 Lumens @ 4'

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ITEM #	QUANTITY	DESCRIPTION
1000	1	HOUSE LIGHT LED REPLACEMENT:
1001	14	Soraa SP38-18-60D-927-03 PAR38, (60)-Degree, 18.5 Watt, 930 Lumens, 2700K
1002	62	Soraa SP38-18-25D-927-03 PAR38, (25)-Degree, 18.5 Watt, 930 Lumens, 2700K

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ITEM #	QUANTITY	DESCRIPTION
1100	1	ADD ALTERNATE #1: - MOTORIZED PROJECTION SCREEN:
1101	1	Da-Lite #35283 Professional Electrol Motorized Projection Screen (146" X 260")
1102	2	Da-Lite #40975 Three-Button Low Voltage Control Station, Surface Mount, Color White
1200	1	INSTALLATION SERVICES:
1201	1	Rigging / Electrical Labor...
1202	1	Rigging / Electrical Materials...
1203	1	Personnel Lift / Scaffolding...

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ITEM #	QUANTITY	DESCRIPTION
1300	1	ADD ALTERNATE #2: - VALANCE & MAIN DRAPERY REPLACEMENT:
1301	1	VALANCE: - of 25oz. IFR Prestige Velour, 50% Fullness, (3'-0"H) X (36'-0"W), Color TBD, Lined, 2" On-Stage Turnback, 2" Off Stage Turnback, 3" Weighted Bottom Hem, 3" Box Pleats, Top Hem w/ Webbing, Grommets,12" O.C., & S-Hooks
1302	1	MAIN STAGE TRAVELER: (PAIR) of 25oz. IFR Prestige Velour, 50% Fullness, (15'-0"H) X (42'-0"W) (21'-0"W ea.), Color TBD, Lined, 12" On-Stage Turnback, 2" Off Stage Turnback, 6" Weighted Bottom Hem, 3" Box Pleats, Top Hem w/ Webbing, Grommets,12" O.C., & S-Hooks
1400	1	INSTALLATION SERVICES:
1401	1	Rigging Labor...
1402	1	Rigging Materials...
1403	1	Personnel Lift / Scaffolding...

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ITEM #	QUANTITY	DESCRIPTION
1500	1	ADD ALTERNATE #3: - STAGE LIGHTING FIXTURE:
1501	1	ETC CSSPOTS-A ColorSource Spot Light Engine w/ Barrel, Assembly (BLACK) w/ C-Clamp, Safety Cable, Soft Diffuser, "A"-Size Pattern Holder, & PowerCon to Edison Power Input Cable
1502	1	ETC 400LT Source Four Lens Tube w/ Lens Installed

Thank you for the opportunity to quote.

ETC® 120V Sensor IQ Intelligent Breaker System

Power Control Series

GENERAL INFORMATION

ETC's Sensor® IQ Intelligent Breaker System provides mains-fed power distribution for up to 48 branch circuits in the industry's most compact footprint. Sensor IQ breakers combine high-inrush rated overcurrent protection, switched power control, and power usage/ breaker status reporting in a single device. With built-in station, sensor, DMX and TimeClock controls and Ethernet connectivity, plus optional 0-10V dimming, DALI output , contact inputs, and isolated ground bar for audio loads, the Sensor IQ integration opportunities are limitless.

APPLICATIONS
- Theaters
- Schools
- Houses of worship
- Conference centers
- Studios
- Arenas and stadiums

FEATURES
- Mains Feed: Three-phase 120/208V four-wire plus ground or single (bi) phase 120/240V three-wire plus ground
- 12-, 24- or 48-position breaker subpanel
- Breakers
  - Hydraulic magnetic breaker with high inrush trip curve
  - 22kA SCCR (up to 65kA series rated with main breaker)
  - Freely mix one-, two- and three-pole breakers up to 30A
  - Integrated air-gap relay switching
  - Integrated on/off/tripped and connected load feedback
  - No power required for handle operation at the breaker
- Echo, sACN, DMX-512, TimeClock, or stand-alone control
- Built-in EchoConnect power supply for up to 6 Echo stations/ sensors and 5 output products
- Built-in network interface provides:
  - Advanced control of relays over streaming ACN (sACN)
  - Measured energy usage reporting per branch circuit
  - Web UI for configuration
- Available 0-10V, contact input or DALI control cards
- UL924 LISTED emergency control bypass contact input

ORDERING INFORMATION

Panel Models

MODEL	DESCRIPTION
IQ12MLO	120/208V 12-circuit breaker panel, main lug only
IQ12	120/208V 12-circuit breaker panel, can support MCB
IQ24	120/208V 24-circuit breaker panel, can support MCB
IQ48	120/208V 48-circuit breaker panel, can support MCB
IQ12-1	120/240V 12-circuit breaker panel, can support MCB
IQ24-1	120/240V 24-circuit breaker panel, can support MCB
IQ48-1	120/240V 48-circuit breaker panel, can support MCB

Door Options

IQ DOOR 120-12MLR	Recess-mount door for IQ12MLO
IQ DOOR 120-12MLS	Surface-mount door for IQ12MLO
IQ DOOR 120-12R	Recess-mount door for IQ12/IQ12-1
IQ DOOR 120-12S	Surface-mount door for IQ12/IQ12-1
IQ DOOR 120-24R	Recess-mount door for IQ24/IQ24-1
IQ DOOR 120-24S	Surface-mount door for IQ24/IQ24-1
IQ DOOR 120-48R	Recess-mount door for IQ48/IQ48-1
IQ DOOR 120-48S	Surface-mount door for IQ48/IQ48-1

Optional Main Breakers

IQ-MB10025K	Main Breaker: 120/208V, 100A, 25kA SCCR
IQ-MB10065K	Main Breaker: 120/208V, 100A, 65kA SCCR
IQ-MB20025K	Main Breaker: 120/208V, 200A, 25kA SCCR
IQ-MB20065K	Main Breaker: 120/208V, 200A, 65kA SCCR
IQ-MB40065K	Main Breaker: 120/208V, 400A, 65kA SCCR
IQ1-MB10025K	Main Breaker: 120/240V, 100A, 25kA SCCR
IQ1-MB20025K	Main Breaker: 120/240V, 200A, 25kA SCCR
IQ1-MB40065K	Main Breaker: 120/240V, 400A, 65kA SCCR

Please see page 4 for more accessory information

Echo Power Requirements

EchoConnect:	One unit of output power
Auxiliary Power:	Not required

Built-in EchoConnect Power Supply

| EchoConnect:	Provides 6U of control power and an additional 5U of output power*
Auxiliary Power:	Not provided

*Note: Built in power supply can be disabled when used with external 16U EchoConnect Power Supply or when multiple relay panels are used in a single system

ETC®

Unison® 100-120V Rack Enclosure

Unison Dimming Series®
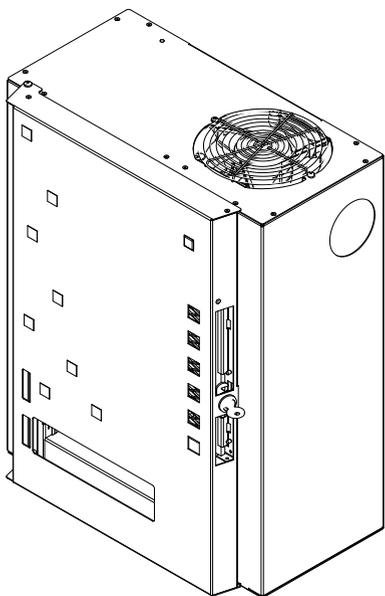
GENERAL INFORMATION

ETC's Unison DRd Series Rack Enclosures are the workhorses behind the scenes, supporting two processor options and a variety of dimming, switching and option modules. DRd Rack Enclosures are trusted for their reliability and versatility.

APPLICATIONS
- Houses of worship
- Hotels
- Convention centers
- Theaters
- Schools
- Restaurants

FEATURES
- All-On – clearly marked switch allows for all loads to be turned on to full, without the need for a control processor
- HighFault – protection from power spikes and surges with short-circuit current ratings from 22,000 amps up to 100,000 amps
- Regulation – monitoring and adjustment of incoming line voltage with min and max scale voltages
- Bypass – UL924-Listed emergency-lighting bypass input with load shedding
- Hold Last Look – dimming engine holds the last output during any loss of control
- QuickBoot – dimming engine boot time of less than four seconds
- PowerStrip – solid copper bus that easily converts from one-phase to three-phase without additional parts
- HiRes Dimming – support for 16-bit DMX and over 65,000 steps of dimming
- Electronic Low-Voltage Dimming – reverse-phase dimming control for electronic low-voltage transformers when used with the ELV module
- California Title 20/24 Compliant

ORDERING INFORMATION

100-120 Volt – DRd Rack Enclosures

MODEL	DESCRIPTION
DRd6-12-120	Six-module rack enclosure (12 circuits)
DRd12-24-120	12-module rack enclosure (24 circuits)
DRd12-48-120*	Two 12-module rack enclosures (48 circuits)

*In 48-channel configurations, two 12-module racks are cross-bussed using AX series main-lug or main-breaker enclosures.

100-120 Volt – Auxiliary Enclosures

| MODEL	DESCRIPTION
AX6-MCB-1-150	Auxiliary rack with 150A Main Breaker for DRd6 -1ø, 3W
AX6-MCB-3-100	Auxiliary Rack with 100A Main Breaker for DRd6 - 3ø, 4W
AX12-MCB-1-300	Auxiliary Rack with 300A Main Breaker for DRd12 - 1ø, 4W
AX12-MCB-3-200	Auxiliary Rack with 200A Main Breaker for DRd12 - 3ø, 4W
AX12X-MCB-1-400	Auxiliary Rack with 400A Main Breaker for Two DRd12 - 1ø, 3W
AX12X-MCB-3-400	Auxiliary Rack with 400A Main Breaker for Two DR12 - 3ø, 4W
AX12X-ML-1-600	Auxiliary Rack with Main Lugs for Two DR12 - 1ø, 3W
AX12X-ML-3-400	Auxiliary Rack with Main Lugs for Two DR12 - 3ø, 4W

Compatible Dimming Processors

MODEL	DESCRIPTION
P-ACP	Paradigm Architectural Control Processor
E-ACP	Echo Architectural Control Processor
S-ACP	SmartLink Architectural Control Processor

DRd Options and Accessories

MODEL	DESCRIPTION
DRd-FLO	DRd 0-10V LED/Fluorescent Control Option
DRd-DALI	DRd DALI Control Option
DRd-PED	DRd Floor-Mount Pedestal
U-RTO	Unison RideThru Option
U-BPO	Unison BatteryPack Option

ETC

Paradigm® Architectural Control Processor
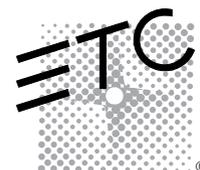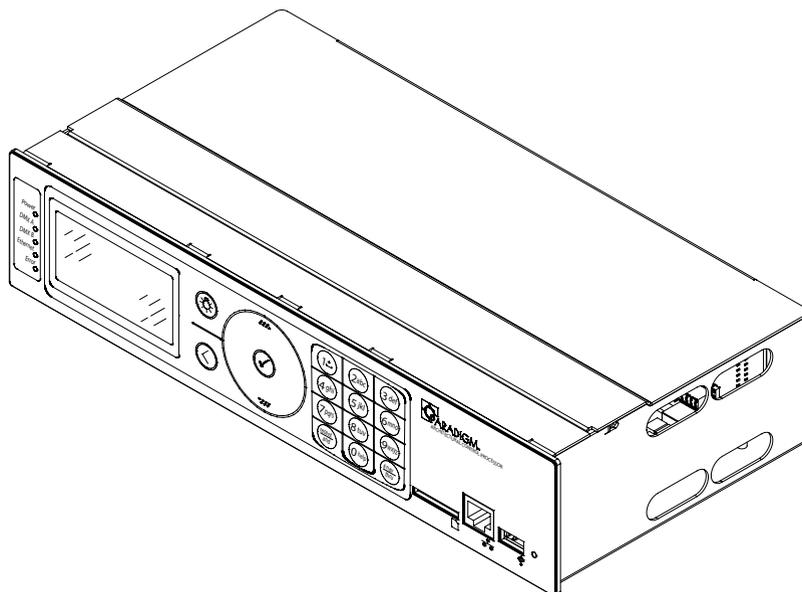
GENERAL INFORMATION

The Paradigm Architectural Control Processor is designed for easy interaction and rapid response. The Paradigm ACP's built-in memory and processing power works with vast amounts of lighting control data and is fast enough to process 1024 simultaneous fades over any of its native protocols.

APPLICATIONS

- Houses of worship
- Schools
- Restaurants
- Hotels
- Museums
- Casinos
- Ballrooms

FEATURES

- Designed for use in Unison DRd and ERn enclosures
- Point of Control Interface: easy-to-read system display shows the user pertinent system information
- LinkConnect: using Echelon® LonTalk® protocol with LinkPower, the two-wire topology-free system gives you the freedom to put stations where you need them
- NetConnect: Makes use of low-cost, easy-to-install Cat5/5e with PoE to connect touchscreen stations and other devices to a networked Paradigm System
- USBConnect: support for USB flashdrives for configuration upload and download
- QuickLoad: SD Media support for upload, and backup of configuration data
- LightDesigner™ Access: Web browser interface for easy modification, activation and monitoring of your system configuration and status
- LocalAccess: user control at the interface, including creation of timed events and editing of presets or sequences
- Secure-It Access Control: multiple levels of secure user access at the interface

ORDERING INFORMATION

Paradigm Architectural Control Processor

MODEL	DESCRIPTION
P-ACP	Unison Paradigm Architectural Control Processor

Compatible Power and Control Enclosures

MODEL	DESCRIPTION
DRd	Unison Dimming Enclosure (12 and 24 circuits)
ERn	Unison External Control Enclosure

Unison Paradigm System Accessories

MODEL	DESCRIPTION
P-SPM	Unison Paradigm Station Power Module
P-REP	Unison Paradigm ERn Repeater Module
P-DREP	Unison Paradigm ERn Dual Repeater Module
P-REP-W	Unison Paradigm Wall-Mount Repeater
P-DREP-W	Unison Paradigm Wall-Mount Dual Repeater
P-REP-RM	Unison Paradigm Rack-Mount Repeater
P-DREP-RM	Unison Paradigm Rack-Mount Dual Repeater

ETC — Unison® Paradigm® Station Power Module

Unison Control Series
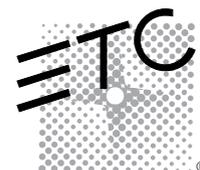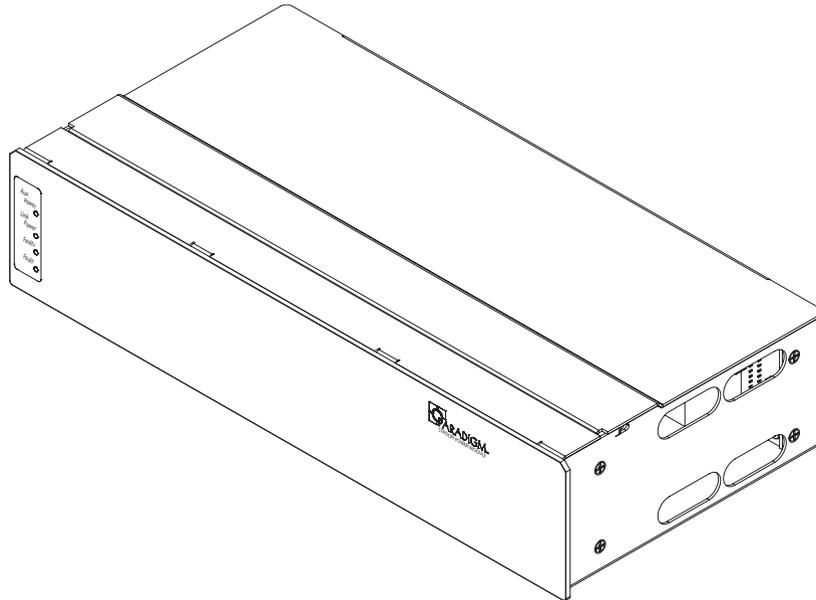
GENERAL INFORMATION

The Paradigm Station Power Module (P-SPM) was designed for use with the Unison DRd and ERn enclosures with Paradigm control. The addition of a Station Power Module offers support for button, fader and touchscreen stations.

APPLICATIONS
- Houses of worship
- Schools
- Restaurants
- Hotels
- Museums
- Casinos
- Ballrooms

FEATURES
- Designed for use in Unison DRd and ERn enclosures
- Plug and Play: ready to go out of the box, no software or external programming required
- LinkConnect: The two wire topology-free system gives you the freedom to put station where you need them
  - Up to 32 stations
  - Up to 500 meters of wiring per system
- Auxiliary power: 24 volt DC power to support Unison interface stations and Paradigm Touchscreens
  - Up to four touchscreen stations supported per P-SPM

GENERAL
- UL and cUL Listed
- CE Marked

ORDERING INFORMATION

Paradigm Station Power Module

MODEL	DESCRIPTION
P-SPM	Unison Paradigm Station Power Module

Unison Dimming and Control Enclosures

MODEL	DESCRIPTION
DRd6	Unison 6-slot (12 circuit) Dimming Enclosure
DRd12	Unison 12-slot (24 circuit) Dimming Enclosure
ERn2*	Unison 2-slot Control Enclosure
ERn4*	Unison 4-slot Control Enclosure

*ERn available **in wall- and rack-mount configurations**

### Unison Paradigm System Components

MODEL	DESCRIPTION
P-ACP	Unison Paradigm Architectural Control Processor
P-REP	Unison Paradigm ERn Repeater Module
P-DREP	Unison Paradigm ERn Dual Repeater Module
P-REP-W	Unison Paradigm Wall-Mount Repeater
P-DREP-W	Unison Paradigm Wall-Mount Dual Repeater
P-REP-RM	Unison Paradigm Rack-Mount Repeater
P-DREP-RM	Unison Paradigm Rack-Mount Dual Repeater

ETC   Unison® 120V Standard Dimmer Module
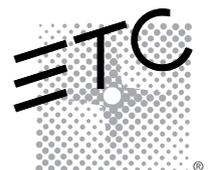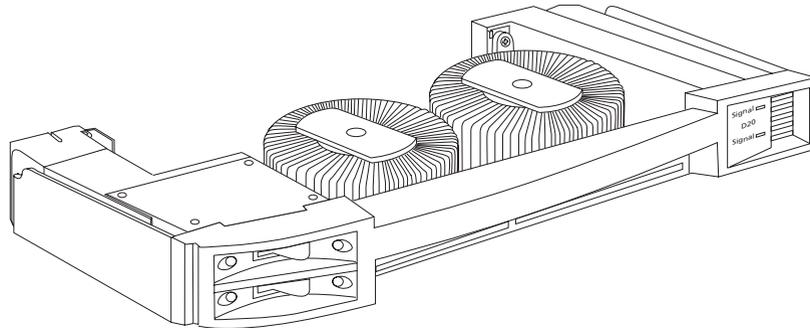
Standard Series

GENERAL INFORMATION

The Standard Dimmer Module is designed for use in Unison Dimming Series Enclosures. Standard Dimmer Modules provide cost-effective digital forward phase angle dimming for standard loads such as incandescent, low voltage, quartz, neon, cold-cathode and 2 and 4-wire fluorescent ballasts. The patented, high-density, dual modules feature modular installation and removal, fully magnetic circuit breakers and standard or enhanced risetime toroidal filters.

APPLICATIONS

- Designed for use in 100-120V Unison DRd rack enclosures
- Incandescent lighting
- Low voltage lighting
- Quartz lighting
- Neon lighting
- Cold Cathode lighting
- 2-wire Fluorescent ballast
- 4-wire Fluorescent ballast (with FLO Option Board)
- DALI ballast (with DALI Option Board)

FEATURES

- Two 1.8kW or 2.4kW dimmers per module
- Standard or Enhanced risetime toroidal filters
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breakers

GENERAL

- 100,000A Short Circuit Current Rating (SCCR)
- UL and cUL LISTED

ORDERING INFORMATION

100-120 Volt Standard Dimmer Modules

MODEL	DESCRIPTION
D15	Dual 15A Dimmer Module, 350µS
D15E	Dual 15A Dimmer Module, 500µS
D20	Dual 20A Dimmer Module, 350µS
D20E	Dual 20A Dimmer Module, 500µS
AFM	Air Flow Module

Compatible Systems[*]

MODEL	DESCRIPTION
DRd6-12-120	100-120V 6 module rack enclosure (12 circuits)
DRd12-24-120	100-120V 12 module rack enclosure (24 circuits)

[*]Rack enclosures also available for 230CE, 240 and 277 Volt applications

ETC — Unison® 120V Electronic Reverse Phase Module

Special Purpose Series

UL LISTED us   c UL LISTED   100V   120V
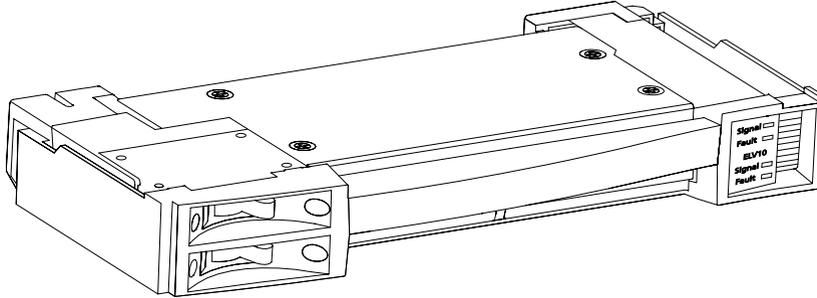
GENERAL INFORMATION

The Electronic Reverse Phase Control Dimmer Module is a dual, plug-in dimmer for use in the Unison Dimming Series rack enclosures. The Electronic Reverse Phase Control Module provides cost effective, reverse phase angle dimming, of electronic transformer circuits. The design features high-density modular assembly, fully magnetic and fully rated circuit breakers, and electronic low-end set controls via control module.

APPLICATIONS
- Designed for use in 100-120V Unison DRd rack enclosures
- Electronic low voltage transformers
- Electronic LED power supplies requiring reverse phase control

FEATURES
- Two 1.2kW dimmers per module
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breaker
- Electronic low-end set controls

GENERAL
- 100,000A Short Circuit Current Rating (SCCR)
- UL and cUL LISTED

ORDERING INFORMATION

100-120 Volt Electronic Reverse Phase Modules

MODEL	DESCRIPTION
ELV10	Dual 10A Electronic Reverse Phase Module

Compatible Systems

MODEL	DESCRIPTION
DRd6-12-120	100-120V 6 module rack enclosure (12 circuits)
DRd12-24-120	100-120V 12 module rack enclosure (24 circuits)

*Rack enclosures also available for 240 and 277 Volt applications

ETC

ETC

Unison® Heritage™ Button Station

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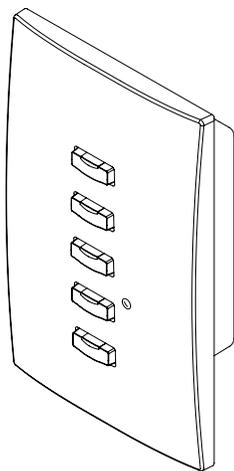
GENERAL INFORMATION

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. Artful but durable, Heritage stations are engineered to stand up to the daily abuse of busy public areas. The Unison Heritage series of button control stations can be customized to suit any décor and application and is available in a wide range of sizes, colors and configurations. Choose from pre-configured button combinations or put stations together to create endless combinations of controls.

APPLICATIONS
- Houses of worship
- Hotels
- Convention centers
- Meeting rooms
- Schools
- Restaurants

FEATURES
- LinkConnect: using Echelon's LonTalk® protocol with LinkPower, the two-wire, topology-free system gives you the freedom to put stations where you need them
- Fastener Free Faceplate System: no visible means of attachment
- ColorCondition: RGB LEDs allow for customized control indication on a per-button basis, unlocking the conditional logic capabilities of a Paradigm® control system
- Forever Legend System: complementary-colored standard or custom legend options using an indelible, laser-marking method
- RemoteDirect: a built-in Infrared (IR) receiver on every station allows for optional IR remote control at every station
- LockOut: configurable control lockout from the push of a button
- Take Control: set the faders on a Heritage fader station and then choose to gain control of the lighting in a room at exactly the right moment

ORDERING INFORMATION

Button Stations

| MODEL	DESCRIPTION	LEGEND
UH00001- __1F	1/2-gang, 1-button	On/Off
UH00002- __1F	1/2-gang, 2-button	On, Off
UH00005- __1F	1/2-gang, 5-button	Preset 1-4, Off
UH10001- __1F	1-gang, 1-button	On/Off
UH10001- __2F	1-gang, 1-button	Entry
UH10001- __3F	1-gang, 1-button	Panic
UH10002- __1F	1-gang, 2-button	On, Off
UH10002- __2F	1-gang, 2-button	Open, Close
UH10005- __1F	1-gang, 5-button	Preset 1-4, Off
UH10007- __1F	1-gang, 7-button	Raise, Lower, Preset 1-4, Off
UH10010- __1F	1-gang, 10-button	Preset 1-9, Off
UH11K00- __1F	1-gang, 1-keyswitch (maintained*)	Lockout
UH11K01- __1F	1 gang, 1 keyswitch (maintained*), 1-button	Lockout, On/Off
UH11K01- __2F	1-gang, 1-keyswitch (maintained*), 1-button	Lockout, Entry
UH11K01- __2F	1-gang, 1-keyswitch (maintained*), 1-button	Lockout, Panic
UH11K02- __1F	1-gang, 1-keyswitch (maintained*), 2-button	Lockout, On, Off
UH11K02- __2F	1-gang, 1-keyswitch (maintained*), 2-button	Lockout, Open, Close
UH11K05- __1F	1-gang, 1-keyswitch (maintained*), 5-button	Lockout, Preset 1-4, Off

*Keyswitch stations available in momentary configurations.

Notes:

Enter station color code in __ space provided:

1 = Cream (RAL 9001)
2 = Ivory (RAL 1015)
3 = Gray (RAL 7001)
4 = Black (RAL 9004)
5 = Signal White (RAL 9003)

Above stations flush-mount (F) in industry-standard gang boxes. (By others)

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

ETC®

ETC®

Unison Paradigm® 7" Touchscreen

Unison Control Series
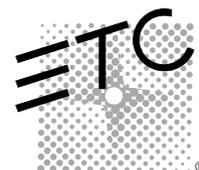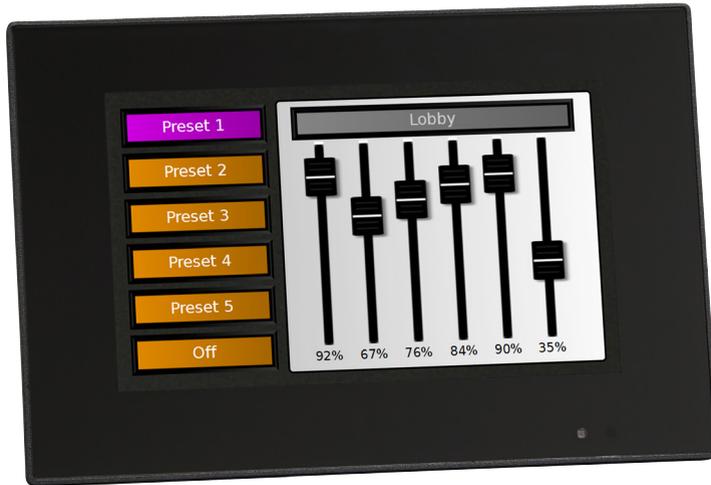
GENERAL INFORMATION

Paradigm Touchscreens use high-resolution, color displays that are bright and easy to read. The touch-sensitive panels provide audible and visual feedback that show when commands are fully registered. Designed to your specifications with ControlDesigner™ software, the Touchscreen's intuitive graphics guide users quickly through lighting and control options.

APPLICATIONS
- Houses of worship
- Hotels
- Convention centers
- Meeting rooms
- Schools
- Restaurants

FEATURES
- 7" WVGA (800x480), 24-bit color LCD touchscreen
- ColorPicker – Support for HSB color picker for dynamic selection of color with LED and multiparamiter fixtures
- Timed Event creation, edit, and override from setup menu
- Ready-When-You-Are – built in proximity and ambient light sensors make sure the station is ready to respond when you are about to use it
- Secure-it Electronic Lockout – configurable, software based access level control with up to three levels of access utilizing numeric pass codes
- NetConnect – making use of low-cost, easy to install Cat5 with PoE to connect LCD stations to a networked Paradigm System
- LinkConnect – using Echelon® LonTalk® protocol with LinkPower, the two wire topology-free system gives you the freedom to put stations where you need them
- USBConnect – Support for USB flash drives for configuration upload and download
- QuickLoad – SD Media support for upload, and backup of configuration data
- Support of standard or custom graphical control pages
- California Title 20/24 Complaint

ORDERING INFORMATION

Paradigm 7" Touchscreen

MODEL	DESCRIPTION
P-TS7-_	Paradigm 7" Touchscreen

Insert station color selection in the __ space provided:

    1 = Cream (RAL 9001)
    2 = Ivory (RAL 1015)
    3 = Gray (RAL 7001)
    4 = Black (RAL 9004)
    5 = Signal White (RAL 9003)

Paradigm 7" Touchscreen Mounting Options

| MODEL	DESCRIPTION
P-LCD-FBB	7" Touchscreen Flush Back Box
P-LCD-SBB	7" Touchscreen Surface Back Box
P-LCD-SLBB	7" Touchscreen Surface Back Box - Locking Cover
P-TS7-RM	Paradigm 7" Touchscreen Rack Mount Kit

Paradigm 7" Touchscreen Locking Covers

MODEL	DESCRIPTION
P-LCD-LC-_	7" Touchscreen Hinged Locking Cover

Notes: Insert Locking Cover color selection in the __ space provided using the color chart above.

Note: Locking covers use the standard flush mount backbox for recesses mount applications

Lowell.™
Distributed Audio, Power & Rack Solutions

Heavy Duty, Sectional Wall Rack #LWR-1223
swing open wall rack with backbox
12U x 23"D x 23"W

28" depth pictured

100% CERTIFIED US STEEL · **MADE IN THE U.S.A** · **c UL us LISTED UL2416** · **EIA TIA COMPLIANT** · **RoHS COMPLIANT**
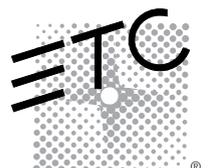
features . . . .

- **Panel Space:** 12U or 21.00" [533]
- **Overall Height:** 27.125" [689]
- **Overall Depth:** 23.05" [585]
- **Usable Depth:** 20.00" [508], allowing partial extension of equipment into backbox
- **Overall Width:** 23.06" [586]
- **Description:** Wall rack features welded steel backbox and front mounting section. Ships in 2 cartons so backbox can be field installed while front is loaded at the shop.
- **Construction:** Welded 16-gauge certified U.S. steel. Black wrinkle powder epoxy finish.
- **Backbox:**
  – 5.80"D with keyhole mounting slots on 16" centers
  – 10"x10" opening accommodates electrical pull box
  – 1/4-20 ground stud
  – Embossed dimples on back plane for installation of board-mounted accessories
  – Removable top/bottom knockout panels with combination EKOs for conduit (1/2"–3/4" and 1"–1-1/2"). Upper KOs for wireless antennae (1/2"). Lower blank project panel.
  – Side locks (2) are keyed differently than optional door.
- **Front Mounting Section:**
  – 17.06"D, welded sides, fully gusseted corners, tri-ple formed (side-to-bottom, side-to-top) wrap design mounts to backbox from inside with 2 heavy duty (self seating, positive locking) spring-loaded L-pins (move pins to change swing orientation). Strength equivalent to 3/16" steel. Front and side vents. Beveled front corners. Roller closure keeps front closed without mandatory locking.
  – Top/bottom KOs for wireless antennaes and integral rails on E.I.A. spacing for mounting or lacing.
  – Rack Rails: 1 pair (12U) 11-gauge steel rails with black finish, 10-32 threaded holes and numbered RU increments. Recessed 0.625"
- **Installation:** Minimum clearance to allow mounting section to swing open 90 degrees is 17.26" (+1" for optional door). Mounting section can swing open more than 90 degrees if room is provided.
- **Hardware:** Black pilot point screws with captive washers for quick installation.
- **Compliance:** EIA/TIA compliant. RoHS compliant. UL 2416 Listed in U.S. and Canada.
- **UL Listed Load Capacity:** 150 lbs.
- **Optional:**
  – Surface-mount front door: solid steel, fully-vented steel, or smoked plexiglass (#LFD-12, #LFD-12FV, #LFD-12P)
  – Additional pair of 12U mounting rails (#RRD-12)

LWR series summary

Model No.	Rack Units	Overall Depth	Usable Depth*	Overall Height	Usable Height	Overall Width	Load Capacity	Front Corners	Adjustable Rails
LWR-719	7 U	19.05 [484]	16.00 [406]	18.38 [467]	12.25 [311]	23.06 [586]	125 lbs	Beveled	1 pr
LWR-1019	10 U	19.05 [484]	16.00 [406]	23.63 [600]	17.50 [445]	23.06 [586]	150 lbs	Beveled	1 pr
LWR-1219	12 U	19.05 [484]	16.00 [406]	27.13 [689]	21.00 [533]	23.06 [586]	150 lbs	Beveled	1 pr
LWR-1619	16 U	19.05 [484]	16.00 [406]	34.13 [867]	28.00 [711]	23.06 [586]	200 lbs	Beveled	1 pr
LWR-2119	21 U	19.05 [484]	16.00 [406]	42.88 [1089]	36.75 [933]	23.06 [586]	250 lbs	Beveled	1 pr
LWR-2419	24 U	19.05 [484]	16.00 [406]	48.13 [1223]	42.00 [1067]	23.06 [586]	300 lbs	Beveled	1 pr
LWR-3519	35 U	19.05 [484]	16.00 [406]	67.38 [1711]	61.25 [1556]	23.06 [586]	300 lbs	Beveled	1 pr
LWR-723	7 U	23.05 [585]	20.00 [508]	18.38 [467]	12.25 [311]	23.06 [586]	125 lbs	Beveled	1 pr
LWR-1023	10 U	23.05 [585]	20.00 [508]	23.63 [600]	17.50 [445]	23.06 [586]	150 lbs	Beveled	1 pr
LWR-1223	**12 U**	**23.05 [585]**	**20.00 [508]**	**27.13 [689]**	**21.00 [533]**	**23.06 [586]**	**150 lbs**	**Beveled**	**1 pr**
LWR-1623	16 U	23.05 [585]	20.00 [508]	34.13 [867]	28.00 [711]	23.06 [586]	200 lbs	Beveled	1 pr
LWR-2123	21 U	23.05 [585]	20.00 [508]	42.88 [1089]	36.75 [933]	23.06 [586]	250 lbs	Beveled	1 pr
LWR-2423	24 U	23.05 [585]	20.00 [508]	48.13 [1223]	42.00 [1067]	23.06 [586]	300 lbs	Beveled	1 pr
LWR-3523	35 U	23.05 [585]	20.00 [508]	67.38 [1711]	61.25 [1556]	23.06 [586]	300 lbs	Beveled	1 pr
LWR-1228	12 U	28.05 [712]	25.00 [635]	27.13 [689]	21.00 [533]	23.06 [586]	200 lbs	Squared	1 pr
LWR-1628	16 U	28.05 [712]	25.00 [635]	34.13 [867]	28.00 [711]	23.06 [586]	250 lbs	Squared	1 pr
LWR-2428	24 U	28.05 [712]	25.00 [635]	48.13 [1223]	42.00 [1067]	23.06 [586]	300 lbs	Squared	1 pr
LWR-1232	12 U	31.87 [809]	29.00 [737]	27.13 [689]	21.00 [533]	23.06 [586]	200 lbs	Squared	1 pr
LWR-1632	16 U	31.87 [809]	29.00 [737]	34.13 [867]	28.00 [711]	23.06 [586]	250 lbs	Squared	1 pr
LWR-2432	24 U	31.87 [809]	29.00 [737]	48.13 [1223]	42.00 [1067]	23.06 [586]	300 lbs	Squared	1 pr

Usable Depth allows partial extension of equipment into backbox. Rack dimensions (rounded) – inches and [mm]; 1U = 1.75"

Spec #1622 / Rev. 11-30-2018
pg. 1/2

MERIT X SERIES POWER CONDITIONERS

A Merit Series Power Conditioner is the perfect low-cost AC power solution for any rack mount system. Install an M-8x², M-8Lx, or M-8Dx in to the top slot of your rack, and the eight switched outlets in the rear panel will power up and protect all your equipment up to a 15-amp load. The M-8Lx and M-8Dx feature two slide out, swiveling light fixtures to provide discreet illumination of your equipment on stages, in studios, and in other dark places. A dimmer knob lets you adjust the lamp brightness to just the right level. The M-8Dx adds a bright red, three-digit LED voltmeter that displays incoming voltage. The M-8x² is designed for applications where lights are not required.

Merit M-8x² Power Conditioner

Noise Filtration	Surge Protection	Nine Total Outlets	15 Amp Rating	"Protection OK" Indicator	Wall Wart Spacing

Merit M-8Lx Power Conditioner

Noise Filtration	Surge Protection	Nine Total Outlets	15 Amp Rating	"Protection OK" Indicator	Wall Wart Spacing	Front Panel Pull-out Lights

Merit M-8Dx Power Conditioner

Noise Filtration	Surge Protection	Nine Total Outlets	15 Amp Rating	"Protection OK" Indicator	Wall Wart Spacing	Front Panel Pull-out Lights	Digital Voltmeter

FURMAN

12-Port 1U Rack-Mount Cat6/Cat5 110 Patch Panel 568B, RJ45 Ethernet, TAA

MODEL NUMBER: **N252-012**

Highlights

- 19 in. rackmount ready, 1U (1.75")
- EIA/TIA 2/32 spacing
- 110 type punchdown termination
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Package Includes

- Cat6 Patch Panel 568B-12 Port, 1U

Description

Tripp Lite's Category 6 Patch Panels offer you all the functionality and compatibility as any name brand. Each panel comes with 110-type termination, while meeting and exceeding EIA/TIA TSB-40 Cat6 connecting hardware specifications. Color coded for both EIA/TIA 568A & 568B installations. 12 ports ensure a wide range of plug-n-play options. The clear numbering on both the front and back of each panel gives you a quick and easy way to identify cable runs and the high density 19in panel design will save you valuable space in on the rack.

Features

- Category 6
- UL approved
- Ports clearly numbered both on front and back
- Labels on front enable each port to be named
- Metal frame
- EIA/TIA 2/32 spacing
- Rack mountable on a 19 rack (1U of space)

Specifications

PHYSICAL	
Color	Black
CONNECTIONS	

NETGEAR®

ProSAFE® Fast Ethernet Smart Managed Switches

Data Sheet

The NETGEAR® Fast Ethernet Smart Managed Switches offer a comprehensive L2 feature set and enhanced performance and usability. They are purposely designed for small and medium-sized networks where reliability and performance are key, and operational cost savings and ease of management are must-haves.

There are four products in this series: 26- and 50- port Fast Ethernet Smart Managed Switch, 28-port Fast Ethernet with 12 PoE ports and 28-port with 24 PoE ports. All switches come with dedicated Gigabit SFP ports for either Gigabit and/or fiber uplinks. These ProSAFE Fast Ethernet Smart Managed Switches from NETGEAR are the optimized solutions providing the best value at an affordable SMB price point.

Highlights

Preserve the Efficiency of current Network and support seamless integration with the high-speed Core

- Fast Ethernet holds the best value for the majority of small network traffic need

- All models come with Gigabit copper and Fiber uplink ports, supporting easy connection to Gigabit backbone or servers

- Comprehensive L2 network features ensure consistency in network setup and policy across the network, regardless of network speed.

- IGMP provides advanced multicast filtering and efficient use of network bandwidth

Build Eco-friendly network with NETGEAR

- Fanless Design on non-PoE models for quiet operation and non-intruding for any environment

- Variable Speed Fan on PoE models enables the fan to turn on at a certain temperature in order to minimize the noise level

- PoE Timer for scheduling on/off time of your PoE powered devices for better control and optimized use of your devices.

- Energy Efficient Ethernet (IEEE802.3az) for energy saving and OPEX reduction (except FS728TP, FS750T2)

Network Development Made Easy

- Auto Voice VLAN for easy development of VoIP (except FS750T2)

- Auto Video for simple deployment of IP Surveillance (except FS728TP, FS750T2)

- ACL Wizard for a guided tour to set up your network access control

- Smart Control Center, a powerful tool for multi-switch discovery, deployment, monitoring and firmware upgrade

- NMS300, the NETGEAR Network Management System, consolidates the deployment and management of these switches along with all NETGEAR business products.

Small IT, not Big IT

- Easy to manage via web-Based Management GUI or Smart Control Center (Windows PC required) for multi-switch deployment

- Standard-based technology, ensuring interoperability with any standard-based devices in the existing network

- Worry-free with NETGEAR ProSAFE Lifetime Hardware Warranty

- Assist with customer deployment with 1-year Free 24x7 Advanced Technical Support*

LIFETIME WARRANTY
Hardware Warranty

LIFETIME WARRANTY
Next Business Day

LIFETIME
Tech Support

LOWELL.

Distributed Audio, Power & Rack Solutions

100% CERTIFIED US STEEL

MADE IN THE U.S.A

features.

- **Panel Space:**   2U, 3U, or 4U

- **Overall Depth:**   15.07" [383] with integral handle

- **Overall Width:**   19.00" [483]

- **Description:**   Fully welded steel utility drawer mounts to front rails of 19" equipment racks using standard E.I.A. spacing.

- **Construction:**   Fully-welded 16-gauge certified U.S. steel. Smooth black powder epoxy finish. Ball bearing slides for smooth operation.

- **Cable Management:**   Plastic bushing in rear for wire pass-through (up to 1.06" diameter).

- **Hardware:**   Mounting hardware is not included.

- **Lock:**   Front lock with key.

- **Origin:**   Made in the U.S.A.

- **Compliance:**   EIA/TIA compliant.

- **Load Capacity:**   50 lbs.

- **Options:**

  – **DFI Series:** Die-cut foam insert (15.5" x 14") is pre-scored with pick-and-pull sections to allow the user to create custom nests to secure specific pieces of equipment. Includes solid (3/8"H) foam bottom. Available for 2U, 3U, or 4U drawer.

  – **CDM:** Non-slip perforated mat lliner (15.5" x 14") provides a protective barrier for a drawer's metal surface.

a&e specifications.

The rackmount utility drawer shall be Lowell Model _____ (#UDEL-214, #UDEL-314, #UDEL-414), which shall be fully-welded 16-gauge certified U.S. steel with smooth black powder epoxy finish. The 19.00"W x 15.07"D x _____ (2U, 3U, 4U) drawer shall feature ball-bearing slides for smooth operation, an integral handle, a plastic bushing in the rear for wire pass-through, and a key lock for security. Load capacity shall be 50 lbs. The drawer shall be made in the U.S.A.

Options

- The drawer shall include die-cut foam insert model _____ (#DF1-2, #DFI-3, #DFI-4) pre-scored with pick-and-pull sections. It shall measure 15.5" x 14" x _____ (2, 3, 4) rack units.

- The drawer shall include a non-slip mat liner (15.5" x 14").

UDE series summary

Model No.	Panel Space	Overall Height	Overeall Width	Overall Depth	Drawer Width	Drawer Depth	Key Lock
UDEL-214	2 U	3.47 [88]	19.00 [483]	15.07 [383]	16.86 [428]	14.5 [368]	yes
UDEL-314	3 U	5.22 [133]	19.00 [483]	15.07 [383]	16.86 [428]	14.5 [368]	yes
UDEL-414	4 U	6.97 [177]	19.00 [483]	15.07 [383]	16.86 [428]	14.5 [368]	yes

Dimension = inches [mm]
1U = 1.75"

SmartPro LCD 120V 1200VA 700W Line-Interactive UPS, AVR, 2U Rack/Tower, LCD, USB, DB9 Serial, 8 Outlets

MODEL NUMBER: **SMART1200LCD**

Description

The SMART1200LCD SmartPro LCD 120V, 1200VA/700W Line-Interactive Uninterruptible Power Supply provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. Ideal for backing up your desktop computer or audio/visual components, this line-interactive UPS switches to battery backup mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

Eight NEMA 5-15R outlets protect against surges, as well as provide up to 12 minutes of UPS battery support at half load (350W) and 4 minutes of support at full load (700W). Automatic voltage regulation (AVR) corrects severe undervoltages as low as 75V and overvoltages as high as 147V without using any battery power. EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 480-joule surge suppression rating protects your equipment from harmful power surges.

NEMA 5-15P plug with 6-foot cord connects to any NEMA 5-15R socket. Large rotatable LCD screen with dimmer shows real-time input voltage, overload, AVR and battery statuses at a glance. Alarm sounds to indicate power loss or low battery. With Tripp Lite's free PowerAlert software (available via free web download), the SMART1200LCD enables safe unattended system shutdown and file saves in case of a prolonged power failure.

Features

Reliable Battery Backup

- Provides 1200VA/700W high-performance power protection for desktop computers, audio/video components, media centers and other electronics
- Supports 50% load (350W) up to 12 minutes and full load (700W) up to 4 minutes

Highlights

- Supports a half-load (350W) up to 12 min. during power outage
- Supports a full load (700W) up to 4 min. during power outage
- Features 8 protected NEMA 5-15R outlets
- Offers automatic voltage regulation (AVR)
- LCD screen reports real-time UPS and power status

Package Includes

- SMART1200LCD SmartPro LCD 120V 1000VA/500W Line-Interactive UPS
- USB cable
- DB9 serial cable
- Telephone cable
- Mounting hardware
- Owner's Manual

ETC®

Ion Xe™ 20 Console

Eos Series

ETL us   c ETL   CE   **100V   115/120V   230/240V**

ORDERING INFORMATION

Ion Xe 20

MODEL	DESCRIPTION
Ion Xe 20 - 2K	Ion Xe 20, 2,048 outputs (minimum)
Ion Xe 20 - 12K	Ion Xe 20, 12,288 outputs (maximum)
Ion Xe RPU - 2K	Ion Xe Remote Processor, 2,048 outputs
Ion Xe RPU - 12K	Ion Xe Remote Processor, 12,288 outputs
Ion Xe 10K	After-sale 10K upgrade
ETCnomad 512	Client for Mac/PC

Output protocols are distributed using ETCNet2 DMX Nodes or Net3 DMX/RDM Gateways. I/O Gateways and Show Control Gateways provide switch closure functionality, MIDI and SMPTE TimeCode.

Ion Xe 20 Accessories

MODEL	DESCRIPTION
Eos MFW 10	Eos Motorized Fader Wing 10
Eos MFW 20	Eos Motorized Fader Wing 20
Eos FW 20	Eos Standard Fader Wing 20
Eos FW 40	Eos Standard Fader Wing 40
Net3 RVI3	Net3 Remote Video Interface
Ion Xe - FC	Ion Xe Flightcase

Eos Family Offline Editor software for Mac and PC platforms is called ETCnomad and is available for download from www.etcconnect.com

Ion Xe 20 requires Windows 7 compatible external monitors, 1280x1024 minimum resolution, standard, touch or multi-touch

SHIPS WITH:
- Dust cover
- One Littlite
- Mouse and mousepad
- External alphanumeric keyboard
- Two active display-port to DVI adapters
- One locking IEC power cord

GENERAL INFORMATION

Ion Xe 20 provides complete control of conventional and moving lights, LEDs and media servers. It supports multiple users with partitioned parameter control and full backup, multiple playback faders and cue lists in a tracking, move-fade environment. The desk includes backlit buttons and 20 45mm non-motorized faders with associated displays.

FEATURES
- 2,048 or 12,288 outputs
- 16,000 control channels (any number from 1 - 99,999)
- Up to 99 discrete users
- Partitioned control
- Master playback pair with motorized 100mm faders
- 20 45mm faders x 100 pages for configurable faders, submasters, masters and grandmaster control with two associated high-contrast monochrome LCD displays
- User-definable direct selects
- Four discrete palette types (IFCB)
- Presets function as "all palette"
- Effects provide dynamic relational and absolute progressive behavior
- Central information area (CIA) accesses the browser and other controls
- Four pageable encoders for non-intensity parameter control
- Configurable high-density channel display, with format and flexi-channel modes
- Up to six abstract color spaces, tinting, spectrum and fade path tools.
- User configurable, interactive Magic Sheets
- ETCNet2™ and Net3™ (powered by ACN), ArtNet and Avab® UDP network output protocols
- Show import from Obsession, Express™, Expression®, Emphasis®, Congo®, Cobalt®, Grand MA1, Grand MA2, Safari and Strand 500/300 Series
- Two individually configurable Ethernet ports
- Multiple MIDI and/or SMPTE TimeCode Inputs, Analog/Serial Inputs, OSC transmit/recieve
- Virtual Media Server function for pixel mapped effects, images, animations
- Support for multiple languages, including English, German, Spanish, French, Italian, Japanese, Korean, Russian and Chinese (Simplified and Traditional)

ETC®

DELL

Dell 24 Touch Monitor
P2418HT

Help boost your productivity with Dell's first 23.8-inch touch monitor
Unique articulating stand, anti-glare screen make for an effortless touch experience

The ultimate touch experience for business
Engage with your content easily and comfortably.

- Anti-glare touch panel reduces distracting reflection and fingerprints, improving viewing clarity.
- Unique articulating stand with extended tilt, plus height-adjustment and swivel capabilities lets you position the screen in the ideal position for touch navigation.
- Intuitive 10-point touch, compatible with Windows® 10, provides smoother navigation across the anti-glare surface.

Collaborate and enjoy the view
Outstanding usability and a comfortable viewing experience.

- Optimise eye comfort with the TUV-Certified flicker-free screen with Comfortview which minimises blue light emissions.**
- Reduce desk clutter with a cable management system and integrated power supply.
- Enjoy excellent image quality thanks to Full HD resolution and a 8 million:1 dynamic contrast ratio.
- Experience clear fluid motion from fast 6ms (gray-to-gray) response time and consistent colours across a wide 178°/ 178° viewing angle.

Help maximise your productivity
High productivity is yours with features that help improve efficiency.

- Experience a more seamless view and workflow across multiple monitors with the P2418HT's ultrathin bezels.
- Get more done with Dell Display Manager — Easy Arrange helps you tile desktop applications to aid multitasking while Auto Mode lets you use custom preset colour settings to save time.
- Work the way you like with flexible mounting options and extensive, convenient connectivity ports.

Experience superb reliability
Comes with Dell's high reliability promise.

- Enjoy peace of mind with Dell's Premium Panel Guarantee[1].
- Minimise downtime with 3 years Advanced Exchange Service[2].
- Enjoy high reliability from the #1 monitor brand worldwide for three consecutive years*.
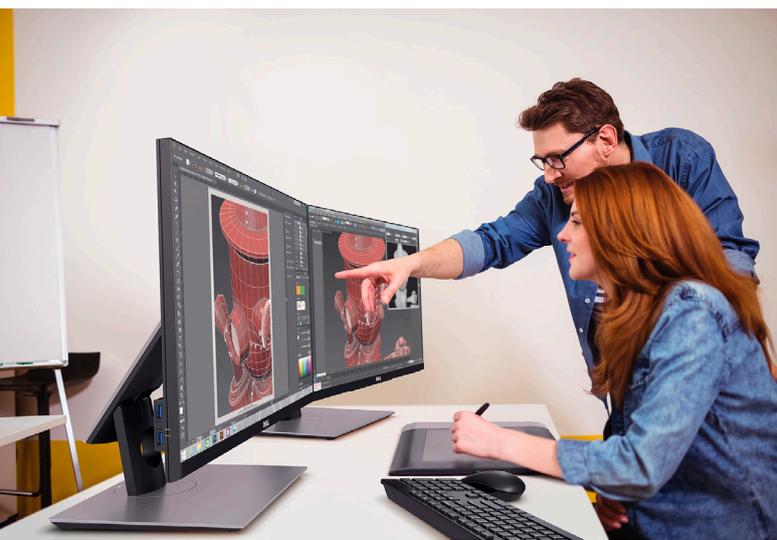
For more information visit
www.dell.com/monitors

C.B.I. PROFESSIONAL WIRING SYSTEMS

## ULTIMATE TACTICAL CAT5E CABLE

FEATURES

- SUPER FLEXIBLE AND DURABLE CAT5E DATA CABLE WITH 100% SHIELDING

- INDUSTRY STANDARD NEUTRIK ETHERCON CONNECTORS

- AVAILABLE ON REEL FOR LONGER LENGTHS

- AVAILABLE IN STANDARD LENGTHS OF 5', 10', 15', 20', 25', 50', 75' AND 100'

SPECIFICATIONS

Item Number	P-CAT5E-ULT-(25')
Connector	Black Neutrik Locking Ethercon NE8MC-B
Wire	4 Pair 24 AWG Data Cable

APPLICATION

Used in entertainment and industrial industries where transmitting data signal is required. Heavily utilized in environments where DMX and intelligent lighting are used.

GENERAL INFORMATION

Electronic Control Plug-in Boxes or ECPBs allow lighting controls to connect and operate lighting and other equipment. Connections vary from industry standard DMX512 and Ethernet to portable houselight control and remote control devices.

APPLICATIONS
- An integral part of any complete lighting system installation:
  - Theatres and auditoriums
  - Television Studios
  - Houses of Worship
  - Museums
  - Casinos
  - Hospitality

FEATURES
- Surface or flush mount options
- Fits in most standard back boxes depending on variation
- Data options include:
  - DMX512 Input or Output
  - Remote Focus Unit (RFU)
  - Ethernet Network
  - Portable Unison station
  - Serial or computer interface
  - AC power option (voltage barrier required)

ORDERING INFORMATION

Standard Plug-in Stations

MODEL	DESCRIPTION
ECPB DMXIN	DMX In Plug-in station
ECPB RFU	RFU Plug-in station
ECPB NET	NET Plug-in station
ECPB DMXOUT	DMX Out Plug-in station
ECPB DMX/2-OUT	DMX 2-Out Plug-in station
ECPB DMX/3-OUT	DMX 3-Out Plug-in station
ECPB DMXOUT/RFU	DMX Out, RFU Plug-in station
ECPB DMXIN/RFU	DMX In, RFU Plug-in station
ECPB DMX IN/OUT	DMX In / Out Plug-in station
ECPB DMXIN/2-IN	DMX 1-In / DMX 2-In Plug-in station
ECPB DMXIN/NET	DMX 1-In / NET Plug-in station
ECPB DMXIN/2-IN/RFU/NET	DMX 1-In, DMX 2-In, RFU, Net Plug-in station
ECPB DMXIN/RFU/NET	DMX In, RFU, NET Plug-in station
ECPB DMXIN/RFU/NET/Unison	DMX In, RFU, NET, Unison Plug-in station
ECPB NET/AC	NET, AC Plug-in station
ECPB NET/NET	NET, NET Plug-in station
ECPB NET/NET/AC	NET, NET, AC Plug-in station
ECPB RFU/NET	RFU, NET Plug-in station
ECPB RFU/NET/UNISON	RFU, NET, Unison Plug-in station
ECPB UNISON/NET	UNISON, NET Plug-in station

DMX/RDM One-Port Gateway
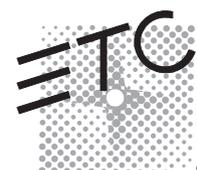
GENERAL INFORMATION

ETC's DMX/RDM One-Port Gateway provides data distribution using the quality and reliability of ETC's network technology. Built for Net3 using industry-standard streaming ACN and sACN, the One-Port Gateway unlocks the power of your networked system. The One-Port Gateway also uses bidirectional Ethernet communication with other network devices to send or receive DMX512 and Remote Device Management (RDM) signals.

APPLICATIONS

- Ideal for venues and applications where single DMX ports are required with an Ethernet infrastructure
- Houses of worship
- High schools
- Community theaters
- Academic theaters
- Convention halls
- System integration

FEATURES

- One DMX/RDM connection using 5-pin male or female XLR
- Distributes DMX and RDM data to any input/output device over Ethernet
- Powered using Power over Ethernet (PoE) or low-voltage DC power
- Supports Net3 protocol powered by ACN
- Power and network status indicators
- Configurable using Net3 Concert software

ORDERING INFORMATION

One-Port Gateway

MODEL	DESCRIPTION
N31G-_F	One-Port DMX/RDM Output Gateway
N3T1G-_F	One-Port DMX/RDM Output Portable Gateway
N31G-M	One-Port DMX/RDM Input Gateway
N3T1G-M	One-Port DMX/RDM Input Portable Gateway
N31G-DIN	One-Port DMX/RDM Gateway - DIN-Rail Mount

Enter station color code in __ space provided.

1 = Cream (RAL 9001), 4 = Black (RAL 9004), 5 = Signal White (RAL 9003)

Portable Gateways include backbox with Ethercon connector and hanging bracket. Hanging hardware is available separately.

DIN-rail gateways mount to standard DIN-rail (provided by others)

One-Port Gateway Accessories

MODEL	DESCRIPTION
N31G-BB	Surface-mount backbox, 3.5" deep
UBOLT	U-Bolt Hardware Kit
400CC	C-Clamp Hardware Kit
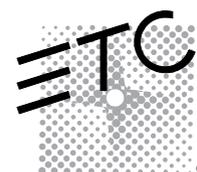
PM Series

Standard Features

Black extruded aluminum wireway with interlocking cover sections to exceed UL 1573 standards.

15, 20, 30, 50, 60, and 100 Amp connectors and receptacles available.

Supplied with two 5/16" x 2" U-bolts for use on 1 1/4" to 2" O.D. pipe.

Flush receptacles or pigtail mounted connectors.

Connectors pre-wired with 125º C XLP high temperature wire to molded barrier terminal blocks.

3/4" white die-cut circuit identification.

UL listed and labeled.

Optional Features

Custom colors.

LED indicator lights.

Custom circuit identification.

DMX input/output.

Available in 16 gauge steel.

3.375"

4.75"

3"
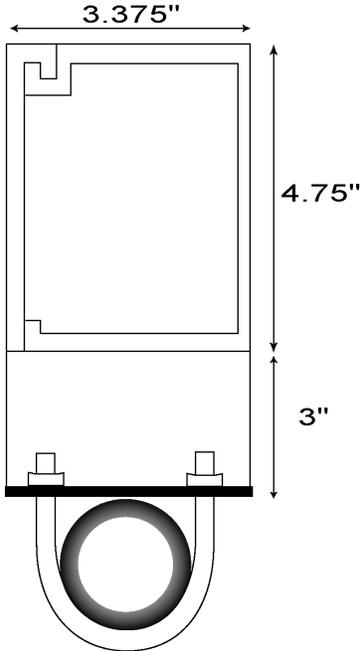
Box Widths	
1 Gang	6"
2 Gang	6"
3 Gang	8"
4 Gang	10"
5 Gang	12"
6 Gang	14"

11

BAL™ Series

Shown with Extended Junction Box

Now available in white. Perfect for churches, retail stores, museums, convention centers, lecture halls or hotels.

3.375"

4.75"
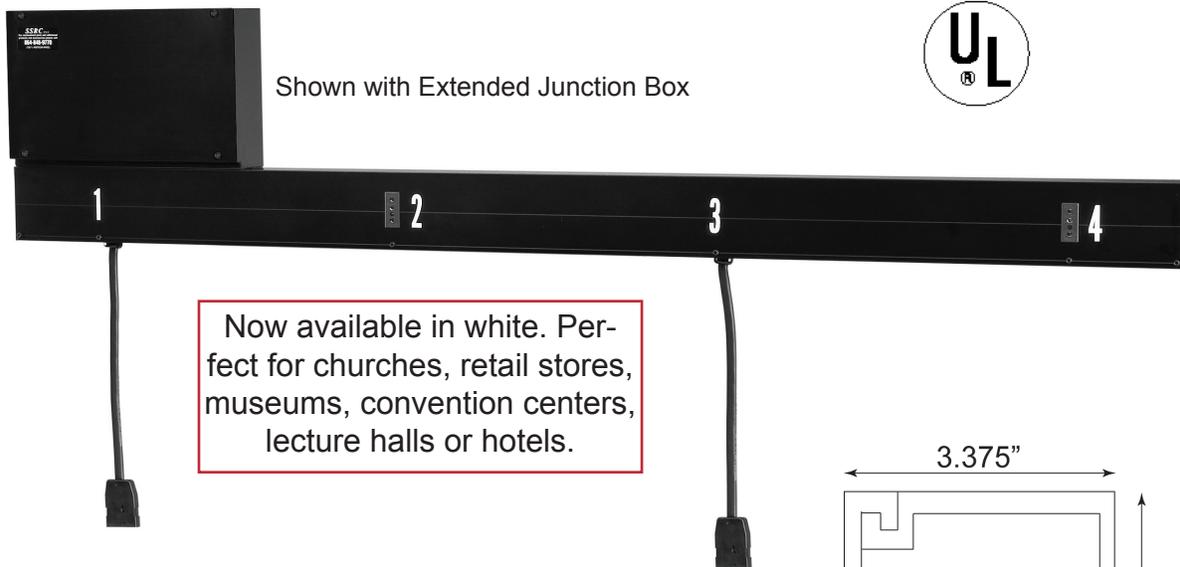
Standard Features

BAL strips can be used for rigged sets with multi-conductor cable or CMS Pantograph systems.

Black extruded aluminum wireway with interlocking cover sections to exceed UL 1573 standards.

15, 20, 30, 50, 60, and 100 Amp connectors and receptacles available.

Flush receptacles or 18" pigtail mounted connectors.

Pre-wired with 125º C XLP high temperature wire to molded barrier terminal blocks.

Terminal blocks can accept up to #8 gauge wire.

2" white die-cut circuit identification.

Supplied with standard mounting brackets.

UL listed and labeled.

Optional Features

Custom colors.

LED indicator lights.

Low voltage raceway.

Custom circuit identification.

Custom mounting brackets.

Feed through wiring.

Multipin connector input/output.

DMX input/output.

Available in 16 gauge steel.

SSRC
Quality Theatrical Distribution

FP Series

Standard Features

3/8" cast iron non-skid black matte finish floor plate.

Self-closing hinged door.

Various 15, 20 and 60 Amp receptacles available.

3/4" white die-cut circuit identification.

Blank receptacle plate for on-site receptacle mounting.

16 gauge galvanized steel back box and receptacle plate.

UL listed and labeled.

Optional Features

Custom circuit identification.

LED indicator lights.

Neoprene dust flaps.

Custom back box sizes.

16 gauge steel back box and steel receptacle plate with black matte finish.

DMX input/output.

SSRC
Quality Theatrical Distribution
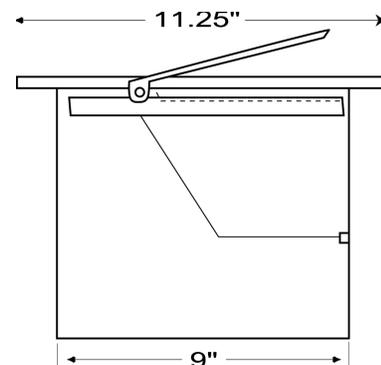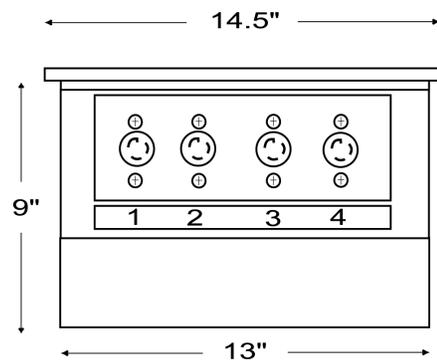
Standard Features

16 gauge cold rolled steel, NEMA 1 screw cover enclosure.

Molded barrier terminal blocks for #8 through #18 AWG with provision for circuit numbering.

Ground lugs installed.

Black matte finish.

UL listed and labeled.

Optional Features

60 Amp, 100 Amp, or DMX terminals.

Custom colors.

Hinged covers.

Galvanized enclosures.

Custom mounting tabs.

Cables

Type SO/SOW-A

12 Gauge

# Cond.	Cond/Strand	Nom. Wall	Nom. O.D.	lbs/ft
5	65/30	.045	0.735	0.355
7	65/30	.045	0.790	0.460
8	65/30	.045	0.855	0.520
9	65/30	.045	0.915	0.602
10	65/30	.045	1.020	0.640
12	65/30	.045	1.060	0.715
14	65/30	.045	1.110	0.850
16	65/30	.045	1.170	0.935
18	65/30	.045	1.260	1.030
20	65/30	.045	1.320	1.100
24	65/30	.045	1.450	1.370
26	65/30	.045	1.450	1.410
30	65/30	.045	1.540	1.620
37	65/30	.045	1.650	1.770
40	65/30	.045	1.750	2.020
50	65/30	.045	1.970	2.510

10 Gauge

# Cond.	Cond/Strand	Nom. Wall	Nom. O.D.	lbs/ft
5	104/30	.045	0.830	0.496
7	104/30	.045	0.865	0.714
10	104/30	.045	1.120	0.980
16	104/30	.045	1.310	1.200
20	104/30	.045	1.440	1.450
24	104/30	.045	1.590	1.750
30	104/30	.045	1.680	2.250
40	104/30	.045	1.920	2.890

Also Available:

Type NVN Cable

Type SJO Cable

Type W Cable

High Temperature Cable

Flat Festoon Cable

CAVU 12/14 TPE extra hard usage cable

SSRC
Quality Theatrical Distribution

170 Fortis Dr. Duncan, SC 29334
864-848-9770 Fax 864-848-3746
www.ssrconline.com

Catalog #	Grip Range (in.)
508	0.52 - 0.73
512	0.73 - 0.97
515	0.97 - 1.25
516	1.25 - 1.50
517	1.50 - 1.70
518	1.70 - 2.00
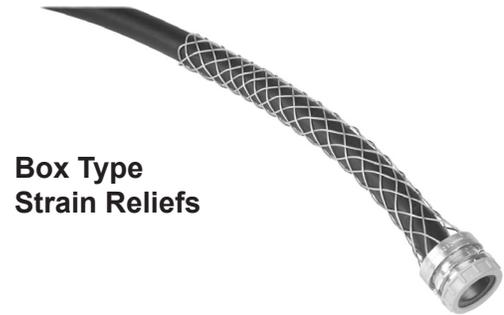
**Box Type
Strain Reliefs**
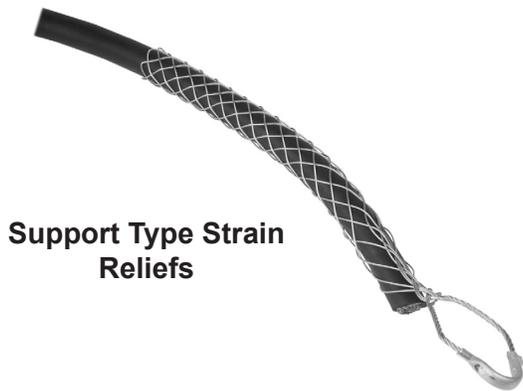
**Support Type Strain
Reliefs**

Catalog #	Grip Range (in.)	Approx. Min. Breaking Strength(lbs.)
508-I	0.52 - 0.73	940
512-I	0.73 - 0.97	1,200
515-I	0.97 - 1.25	1,500
516-I	1.25 - 1.50	1,850
517-I	1.50 - 1.70	2,000
518-I	1.70 - 2.00	2,450
519-I	2.00 - 2.45	3,260

Catalog #	Cable Diameter Range (in.)
CC2	0.75 - 3.00
CCP	0.75 - 3.00

CC1/CC2 Cable Cradle

CCP Cable Clamp

C.B.I. PROFESSIONAL WIRING SYSTEMS

ULTIMATE TACTICAL CAT5E CABLE

FEATURES

- SUPER FLEXIBLE AND DURABLE CAT5E DATA CABLE WITH 100% SHIELDING

- INDUSTRY STANDARD NEUTRIK ETHERCON CONNECTORS

- AVAILABLE ON REEL FOR LONGER LENGTHS

- AVAILABLE IN STANDARD LENGTHS OF 5', 10', 15', 20', 25', 50', 75' AND 100'

SPECIFICATIONS

Item Number	P-CAT5E-ULT-(25')
Connector	Black Neutrik Locking Ethercon NE8MC-B
Wire	4 Pair 24 AWG Data Cable

APPLICATION

Used in entertainment and industrial industries where transmitting data signal is required. Heavily utilized in environments where DMX and intelligent lighting are used.

Pipes

Standard Features

Fabricated from 1 1/2" schedule 40 pipe.

Welded construction.

Black matte finish.

Forged eye top on booms.

Available in standard sizes.

Threaded pipe end.
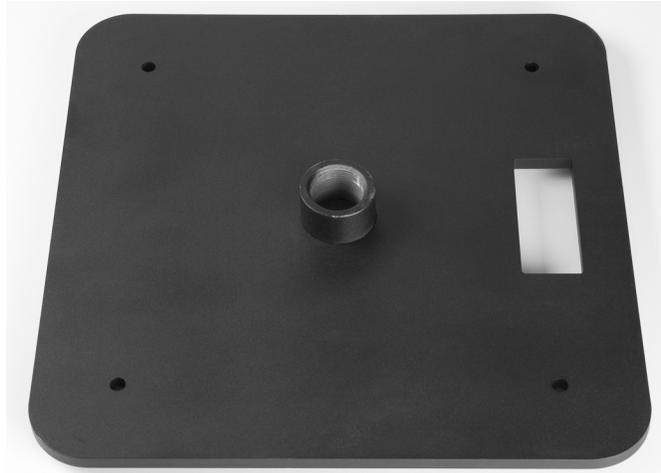
Optional Features

Aluminum pipe.

Custom paint finishes.

Custom sizes and configurations.

Catalog #	Description
50 BB	50 lb. Boom base
BP - 8	1 1/2" pipe at 8' threaded & capped eye
BP - 10	1 1/2" pipe at 10' threaded & capped eye
BP - 12	1 1/2" pipe at 12' threaded & capped eye
BP - 16	1 1/2" pipe at 16' threaded & capped eye
BP - 20	1 1/2" pipe at 20' threaded & capped eye
6 x 6 TP	6' x 6" Tormentor Pipe
8 x 8 TP	8' x 8" Tormentor Pipe
10 x 10 TP	10' x 10" Tormentor Pipe
12 x 12 TP	12' x 12" Tormentor Pipe

SSRC
Quality Theatrical Distribution

ETC®

ColorSource™ Spot

ColorSource Series
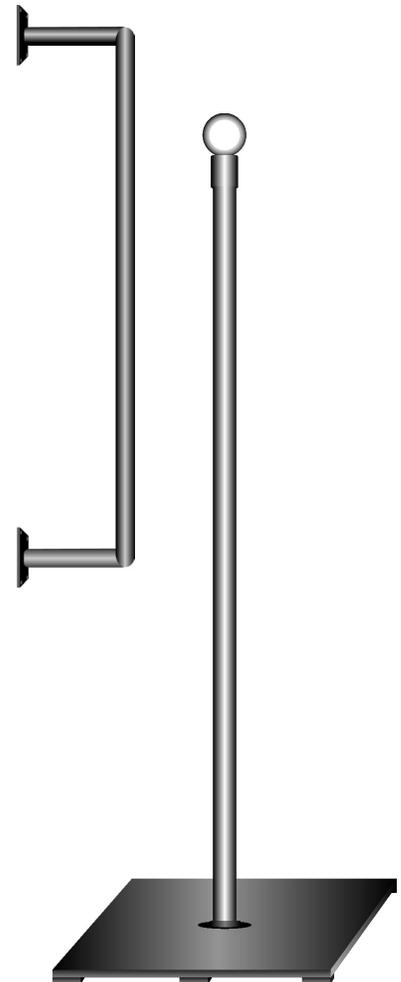
ETL us   c ETL   **100V   115/120V   230/240V**

GENERAL INFORMATION

The ETC ColorSource Spot brings together the affordability of a four-color light engine with the build-quality and support of an ETC product. Using a unique mix of red, green, blue and lime LED emitters, the ColorSource spot allows for an amazing range of color and depth, unlike other low-cost LED fixtures. Because it utilizes standard ETC optics, adapters and accessories, it is a versatile solution for any lighting need.

APPLICATIONS
- Houses of worship
- Universities and schools
- Hospitality
- Retail
- Exhibition centers
- Meeting rooms
- Clubs
- Cafetoriums

PRODUCT FEATURES
- ETC's new RGB-L array (Red, Green, Blue and Lime)
  - Also available in Deep Blue that replaces the blue LEDs with indigo for rich, saturated blues and magentas
- Simple user interface with seven-segment display
- PowerCon in and thru
- DMX/RDM in and thru (5-pin XLR or RJ45)
- LED droop compensation
- Optically calibrated
- Tour-ready, aluminum housing

ORDERING INFORMATION

ColorSource Spot Light Engine with Shutter Barrel
(For use with fixed-field lens tubes only)

MODEL	DESCRIPTION
CSSPOTS	ColorSource Spot with shutter barrel, black
CSSPOT45S	ColorSource Spot RJ45 with shutter barrel, black
CSSPOTSDB	ColorSource Spot Deep Blue with shutter barrel, black
CSSPOTDB45S	ColorSource Spot Deep Blue RJ45 with shutter barrel, black

ColorSource Spot Light Engine Body
(For use with zoom lens tubes and adapters and for retrofit of existing fixtures)

MODEL	DESCRIPTION
CSSPOT	ColorSource Spot, body only, black
CSSPOT45	ColorSource Spot RJ45, body only, black
CSSPOTDB	ColorSource Spot Deep Blue, body only, black
CSSPOTDB45	ColorSource Spot Deep Blue RJ45, body only, black

Color options: -1 = white, -5 = silver gray/custom colors
Fixture ships with a soft-focus diffuser in a gobo holder and a 1.5m PowerCON™ power-input cable with a connector of choice. See page 2 for connector options.

Please note: Lens tubes to be ordered separately.

ETC.

ETC®

ColorSource™ PAR

ColorSource Series

GENERAL INFORMATION

The ETC ColorSource PAR offers a quality of build and light that has never been seen in an affordable wash fixture. Using ETC's unique RGB-L color system, the ColorSource PAR provides a rich, bright light unlike any other LED washlight in its class. And it was designed and manufactured by ETC.

APPLICATIONS
- Houses of worship
- Universities and schools
- Hospitality
- Retail
- Exhibition centers
- Meeting rooms
- Clubs
- Cafetoriums

PRODUCT FEATURES
- ETC's new RGB-L chipset (Red, Green, Blue and Lime)
  - Also available in Deep Blue that replaces the blue LEDs with indigo for rich, saturated blues and magentas
- Homogenized optics
- Simple user interface with seven-segment display
- PowerCon in and thru
- DMX/RDM in and thru (5-pin)
- LED droop compensation
- Optically calibrated
- Tour-ready, aluminum housing

ORDERING INFORMATION

ColorSource PAR

MODEL	DESCRIPTION
CSPAR	ColorSource PAR, black
CSPAR45	ColorSource PAR RJ45, black
CSPARDB	ColorSource PAR Deep Blue, black
CSPARDB45	ColorSource PAR Deep Blue RJ45, black

Note: ColorSource PAR luminaires ship with a hanging yoke and a power cable with connector of choice. See page 2 for connector options. C-clamps are not included. For addtional color options, please add the following: -1 for white, -5 for silver or -8 for custom color.

100V   115/120V

GENERAL INFORMATION

The ColorSource CYC is a dedicated cyclorama fixture designed with the sole purpose of creating beautiful, smooth washes of light on a cyclorama or wall. And it delivers! This is the first ETC fixture to use this innovative five-color mix of red, green, blue, lime, and indigo for expanded range and color control.

PRODUCT FEATURES
- All LED (RGBI-L)
- Rich, bright light
- Fanless operation
- Stand-alone presets and sequences
- Simple setup and user interface

ORDERING INFORMATION

ColorSource CYC

MODEL	DESCRIPTION
CSCYC	ColorSource CYC fixture, black

Color Options: Fixture ships standard in black. For additional colors please use the below color code suffix:

Add -1 for white or -5 for silver

Notes: C-clamp sold separately

COLORSOURCE CYC SHIPS WITH:
- Hanging yoke
- Power cable

DMX CABLES

DMX 3 PIN

DMX 5 PIN

SPECIFICATIONS

Item Number	DMX3-(Length)
Male Connector	Neutrik XX Series, 3 Pin Male Nickel XLR
Female Connector	Neutrik XX Series, 3 Pin Female Nickel XLR
Wire	4 Conductor, 22 AWG Stranded & Shielded

Item Number	DMX5-(10')
Male Connector	Neutrik 5 Pin Male NC5MXX-bag Black
Female Connector	Neutrik 5 Pin Female NC5FXX-bag Black
Wire	4 Conductor, 22 AWG Stranded & Shielded

FEATURES

- QUALITY NEUTRIK XX 3 & 5 PIN CONNECTORS

- SUPER FLEXIBLE AND RUGGED CABLE WITH SHIELD IS ROAD WORTHY

- AVAILABLE IN 5', 10', 15', 20', 25', 50', 75', AND 100' LENGTHS

POWERCON EXTENSION CABLE

FEATURES

- HEAVY DUTY LOCKING NEUTRIK POWERCON CONNECTORS

- 12/3 SOOW WIRE RATED AT 600 VOLTS AND PROVIDES WEATHER, WATER, AND OIL RESISTANCE

- AVAILABLE IN 5', 10', 15', 20', 25', 50', 75', AND 100' LENGTHS

SPECIFICATIONS

Item Number	P-PC12-SO12-(Length)
Connector	Neutrik NAC3FCA and NAC3FCB
Wire	12/3 SOOW

APPLICATION

Designed for interconnection of electrical devices that utilize PowerCON connectors including but not limited to quad boxes, LED lighting, and powered speakers.

DMX 5 PIN TERMINATOR

FEATURES

- **ITEM NUMBER: DMX5-TERM**

- **CONNECTOR: XLR 5 PIN**

- **120 OHM RESISTOR FOR TERMINATING DMX CABLE**

APPLICATION

Designed to terminate a DMX Daisy chain. Terminating DMX chains improves signal reliability and reduces the risk of drop out during events.
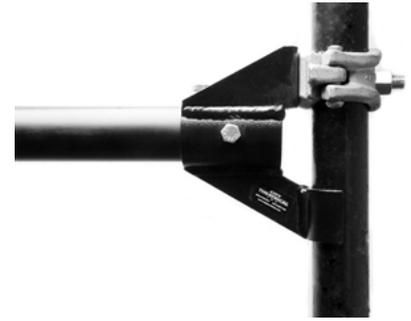
Safer Sidearms

Theatrical **sidearms** are asked to do a job they were never designed to do. A typical sidearm is made up of a c-clamp and a piece of ½" pipe. When downward pressure is placed on the pipe, it will bend the bolt of the c-clamp permanently and ruin the sidearm. Our Safer Sidearms utilize a diagonal brace to transfer the load off the clamp and onto the vertical pipe. They can easily hold 100 lbs. without bending. Our Steel Safer Sidearms are even bigger and more rugged and are designed for speakers and moving lights. barndoors have aluminum leaves for light weight and durability, and nylock nuts to enable the tension of the doors to be adjusted if wear occurs over time. Round frames allow the doors to rotate to the optimum position.

Name	Cat. #
Safer Sidearm Original (uses ½" pipe)	200
Safer Sidearm Original w/ 18" of ½" pipe and one sliding tee	202
Safer Sidearm Original w/ 24" of ½" pipe and two sliding tees	204
Steel safer sidearm (uses 1 ½" pipe, not included)	210
1 1/2" pipe (per foot) drilled for safer sidearm	211
Safer Sidearm Junior	220
Pipe end tail down (includes 6' of 1 ½" pipe)	290

LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — Inspired by classic fluorescent strip channels, this LED fixture offers a traditional appearance that incorporates the latest technology. Available in several lengths and lumen packages. Ideal for use in commercial, retail, office, warehouse and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** **Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included with 2LL versions for continuous row mounting. High-gloss, baked white enamel finish (standard).

OPTICS — LEDs provided 80+ color rendering index (CRI) at 4000K. Diffuse polycarbonate lens provides smooth, linear illumination which is designed to resemble the classic look of traditional fluorescent tubes. Lumen output up to 1,150 lumens per foot.

ELECTRICAL — The fixture is tested to withstand a maximum line surge of 2.5kV/.2kA ring wave for indoor locations. MVOLT versions also tested to withstand a maximum line surge of 2kV/1kA combination wave for indoor locations. For applications requiring higher level of protection, additional surge protection must be provided.

INSTALLATION — Fixture may be surface or suspension mounted with appropriate mounting options. Aligner locks in place for easy continuous row mounting. Luminaire should be installed in applications where ambient temperatures do not exceed 95˚F (35˚C) for 4' and 8' models or 104˚F (40˚C) for 2' models.

LISTINGS — CSA certified to US and Canadian safety standards and listed suitable for damp locations. Minimum starting temperature at -40˚F (-40˚C). Maximum ambient operating temperature of 95˚F (35˚C) for 4' and 8' models. Maximum ambient operating temperature of 104˚F (40˚C) for 2' models.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25˚C.

Specifications subject to change without notice.

MNSL

LED Striplight

LED

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Catalog number	Description	Lumens	Wattage	Voltage	Color Temperature	Color Rendering Index	Pallet Quantity
MNSL L23 1LL 120V 40K 80CRI	2' 1-Light 120V LED Strip Light	1150	12	120V	40K 4000K	80CRI 80 CRI	576
MNSL L24 2LL MVOLT 40K 80CRI	2' 2-Light MVOLT LED Strip Light	2200	25	MVOLT (120-277V)	40K 4000K	80CRI 80 CRI	336
MNSL L46 1LL 120V 40K 80CRI	4' 1-Light 120V LED Strip Light	2300	25	120V	40K 4000K	80CRI 80 CRI	288
MNSL L48 2LL MVOLT 40K 80CRI	4' 2-Light MVOLT LED Strip Light	4500	50	MVOLT (120-277V)	40K 4000K	80CRI 80 CRI	168
MNSL L96 2LL MVOLT 40K 80CRI	8' 2-Light MVOLT LED Strip Light	8200	90	MVOLT (120-277V)	40K 4000K	80CRI 80 CRI	252

PHOTOMETRICS

See www.lithonia.com.

LITHONIA LIGHTING®

An Acuity Brands Company

SORAA
SIMPLY PERFECT LIGHT

PAR38 18.5W

OUTPUT RANGE: VIVID SERIES	930 - 1040 lumen
OUTPUT RANGE: BRILLIANT SERIES	1190 - 1280 lumen
BEAM ANGLE RANGE	9°, 25°, 36°, 60°
COLOR TEMPERATURE RANGE	2700K, 3000K, 4000K
APPLICATION	Halogen replacement for indoor & outdoor applications

120V **E26** **DIM** IR UV

POINT SOURCE OPTICS

Exceptional beam control enables unique 9° narrow spot and smooth uniform beams

Single light source, single crisp shadow

VP₃ VIVID COLOR AND VP₃ NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, with CRI/95, R9/95, Rf/90, Rg/100

Whiteness rendering matches or exceeds that of halogen and incandescent sources at 2700K and 3000K

ENERGY EFFICIENCY AND LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime to L70: 35,000hrs

Warranty: 3yrs or 25,000hrs whichever comes first

Detailed warranty information available at soraa.com/resources/legal

CERTIFICATIONS

JA8-2016-E, RoHS, CE, UL/CUL, FCC Title 47 Part 15B

c(UL)us **RoHS**

HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures and suitable for damp locations

Suitable for fully enclosed fixtures. Can be used with front glass cover

Works with trailing edge and leading edge phase cut dimmers (see www.soraa.com/resources)

INTENDED USE AND APPLICATIONS

Intended for use in PAR38 compatible recessed downlights, track lighting and other indoor and outdoor applications

Soraa lamps are designed to safely turn down in any thermal environment not conducive to minimum airflow or proper ventilation

GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Electrical	Dimming and Flicker
Width: 122mm (4.80")	Minimum: -40°C (ambient)	Wattage: 18.5W	Dimmable to <10%
Height: 125mm (4.92")	Typical: 70°C - 80°C (base)	Power factor: 0.95	Flicker Index: <0.1
Weight: 305g	Maximum: 90°C (base)	Voltage: 120V +/- 12V	Percent Flicker: 28%*
		Frequency: 50/60Hz	

* These Soraa lamps are certified to California's demanding JA8 standard, which requires <30% flicker

Chauvet Intimdators Existing in Stock
Alternate #3 Boxed in Red

Instrument Key

ETC ColorSource CYC @ 100w	7	
ETC ColorSource Spot 19deg @ 160w	20	
ETC ColorSource Spot 26deg @ 160w	24	
ETC ColorSource Spot 36deg @ 160w	13	
ETC ColorSource Spot 50deg @ 160w	11	
ETC ColorSource PAR Medium Oval @ 90w	15	
Chauvet Intimidator Spot LED 250 @ 150w	4	

Unit Number
Purpose
Channel
Address

US CYC

US Traveler
4th Electric

Legs on Track

Mid Stage Traveler

3rd Electric

US Border

Legs on Track

2nd Electric

Legs on Track

DS Border

Main Curtain New Track
Main Valance

1st Electric

Hi Side SR
Hi Side SL
Back US
Back DS
Back Apron
Back Spec

CYC

FOH 1

Area 1 F SR
Area 2 F SR
Area 3 F SR
Area 4 F SR
Area 1 F SL
Area 2 F SL
Area 3 F SL
Area 4 F SL
Area 5 F SL
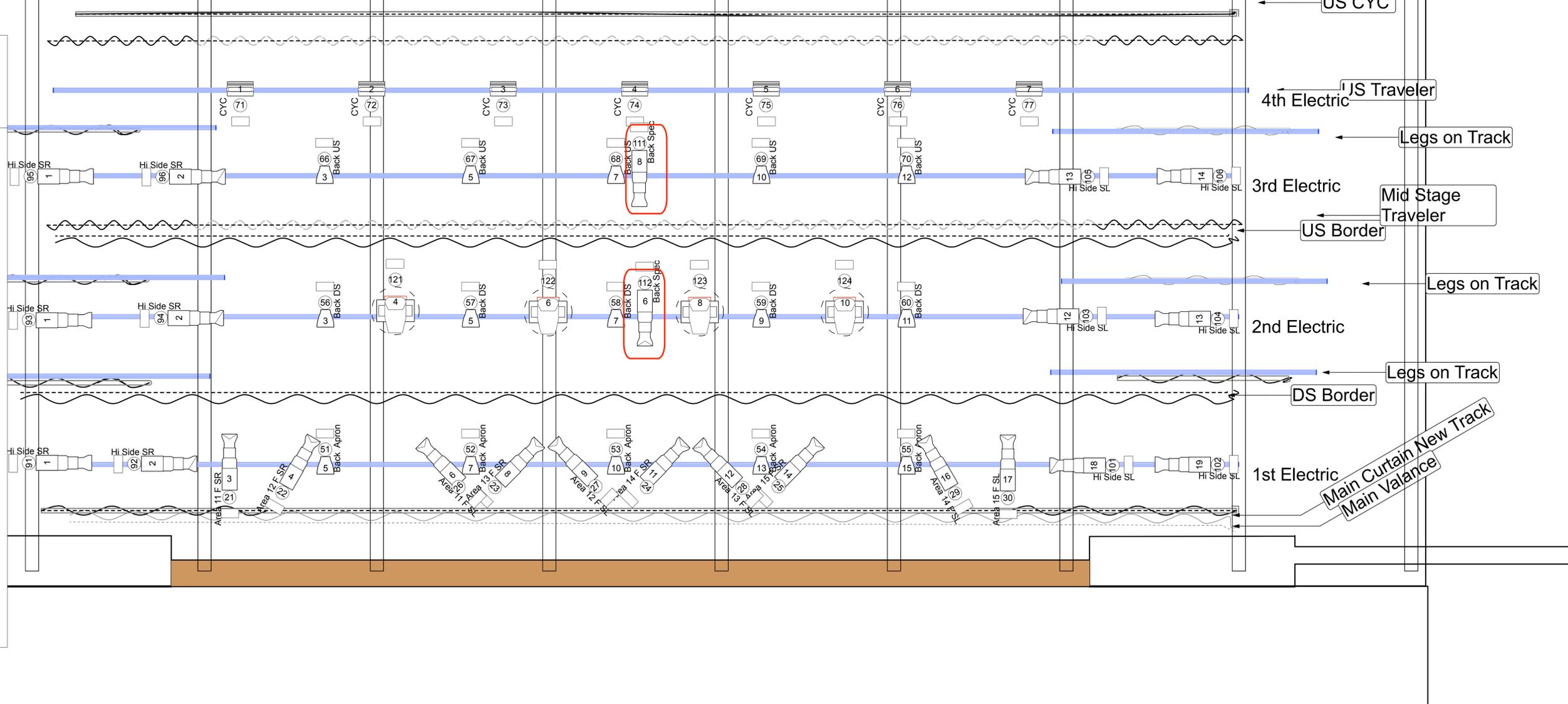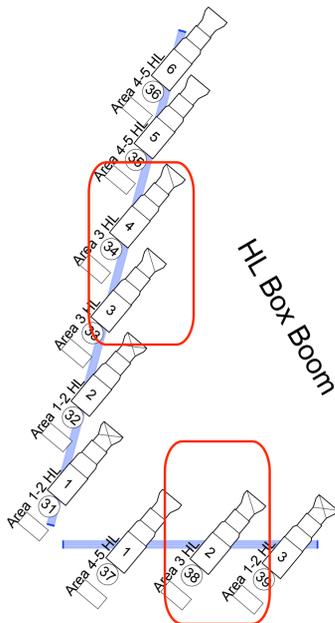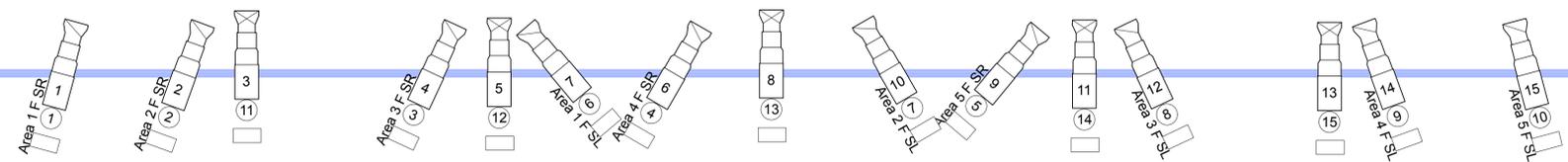
HL Box Boom
HL Vertical Box Boom

HR Box Boom
HR Vertical Box Boom

Area 4.5 HL
Area 3 HL
Area 1-2 HL
Area 4-5 HL

All Add Alternate #3 Outlined in Red

Element 2 Console and Cart

FOH Booth wall HL
Center House Bar
FOH Booth Wall HR

Area 1 F SR
Area 5 F SR
Area 3 F C

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Drawing By:
Jamie Burnett
Luminous Environments LLC
203-215-6832
jburnett5@comcast.net

Drawing: LP-1 Light Plot
4/7/19
Scale : 1/2" = 1'- 0"

LIGHT PLOT
SOMERS High School