



100V 120V



## GENERAL INFORMATION

Sensor3 dimming systems provide high-density, professional features and exceptional reliability for lighting applications requiring the best the entertainment industry can offer.

### APPLICATIONS

- Professional and academic theaters
- Production studios
- Concert and performance halls
- Themed retail and dining venues
- Theme parks
- Multipurpose convention centers
- Houses of worship

### FEATURES

- System monitoring with optional circuit reporting
- High dimmer density
- Up to two 2.4kW dimmers per module
- Six, 12-, 24-, and 48- module racks available
- Rugged industrial construction
- Installation flexibility
- Adaptable modular design
- 100,000A Short Circuit Current Rating (SCCR)
- Advanced configuration editing built into rack
- Up to 16 presets per space
- Up to 16 assignable zones per space
- Built-in Unison Echo Station support for
  - Six connected sensors or stations (16 with external PS)
  - Six connected racks or power controllers (16 with ext PS)
- Direct Ethernet control-signal input (Net3™, sACN)
- Two DMX512-A inputs
- Supports ETC Dimmer Doubling™

### ACCESSORIES

- Dimmer Doubler
- Sound Suppression Hood
- Floor pedestal for 24-module rack
- Document holder

## Sensor3 SR Series

### ORDERING INFORMATION

#### Installation Racks

MODEL	DESCRIPTION
SR3AF-48	Sensor3 48-Module Advanced Features Rack
SR3AF-48-TERM	Sensor3 48-Module Advanced Features Rack with Termination Bay
SR3AF-24	Sensor3 24-Module Advanced Features Rack
SR3AF-12	Sensor3 12-Module Advanced Features Rack
SR3AF-6	Sensor3 Six-Module Advanced Features Rack
SR3AF-24 1P	Sensor3 24-Module Single Phase AF Rack
SR3-12 1P	Sensor3 12-Module Single Phase AF Rack
SR3-6 1P	Sensor3 6-Module Single Phase AF Rack

Note: SR48AF available with Optional Termination Bay

#### Rack Options

MODEL	DESCRIPTION
AT48	Amp-Trap fuse option for 48-module rack
AT24	Amp-Trap fuse option for 24-module rack
AT12	Amp-Trap fuse option for 12-module rack
BK48	Bus kit for two 48-module racks
BK24	Bus kit for two 24-module racks
BK12	Bus kit for two 12-module racks
AUX30-48	30" Auxiliary Rack(s) for 48-module rack
AUX19-48	19" Auxiliary Rack(s) for 48-module rack
AUX19-24	19" Auxiliary Rack(s) for 24-module rack
AUX19-12	19" Auxiliary Rack(s) for 12-module rack

Notes: Vibration reduction mounts available for all Sensor3 racks. Contact ETC Power feeds above 800A up to 2,000A require the addition of a 30" auxiliary rack.

Optional main circuit breakers are available for use in auxiliary racks - 100A, 200A, 225A, 250A, 300A, 400A, 600A, 800A, 1000A, and 1200A.

#### Rack Accessories

MODEL	DESCRIPTION
SSSh24-48	Sensor Sound Suppression Hood – large
SSSh6-12	Sensor Sound Suppression Hood – small
DH	Document Holder

#### Control Accessories

E10xx/E11xx	Inspire Stations
EPS5/EPS10	Preset recall stations
ELS	Light Sensor
EOCC	Echo Occupancy Sensor
E-SPM-WM	Wall-Mount Station Power Module (16+16)
E-SPM-RM	Rack-Mount Station Power Module (16+16)
	Echo Zone and Room Controllers



## SPECIFICATIONS

## GENERAL

- Racks available in four sizes:
  - SR3AF-6: Six modules, 12 dimmers maximum
  - SR3AF-12: 12 modules, 24 dimmers maximum
  - SR3AF-24: 24 modules, 48 dimmers maximum
  - SR3AF-48: 48 modules, 96 dimmers maximum
- Dual-density (two dimmers per module), single-density and half-density dimmer modules available
- Operating temperature: 0 to 40°C / 32 to 104°F
  - Dimmer room HVAC systems must at all times maintain the specified ambient temperature at the dimmer rack.
  - Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.
- Relative humidity: 10-90% non-condensing
- All racks UL and cUL Listed

## MECHANICAL

- Rugged 16-gauge steel construction
- Fine-textured, scratch-resistant epoxy paint
- SR3-6 and SR3-12 uses wall-mount installation
- SR3-24 can be wall- or pedestal-mounted
- SR3-48 is floor-mounted
- Top and bottom conduit access through removable panels (SR3-48) or knockouts (SR3-6, SR3-12, and SR3-24)
- No tools required for module removal or installation
- Keyed module slots prevent insertion of inappropriate module types
- Front access to all wiring and terminations
- Full-height locking door
- Electrostatic air filter easily removed from door for periodic cleaning
- High-efficiency cooling system with airflow sensor
- High-visibility LED status beacon
- Optional termination bay available for SR48AF enclosure

## ELECTRICAL

- SR3AF-6, SR3AF-12 and SR3AF-24 accept:
    - Three-phase 120/208 VAC
    - Single-phase 120/240 VAC
  - SR3AF-48 accepts:
    - Three-phase 120/208 VAC
  - Line feed frequencies from 47-63Hz
  - Line feed voltage range is 91-139 VAC\*
  - Load terminals accept up to #4 AWG (25mm<sup>2</sup>) wire (see chart)
  - Short Circuit Current Rating: 100,000A RMS symmetrical at 240VAC
  - Auxiliary equipment racks and custom switch-gear/distribution available (call ETC for details)
- \*Note: The suggested maximum main transformer tap is 135V to allow for line fluctuation

## CONTROL ELECTRONICS

- CEM3 Power Control
- Full number pad for fast access to dimmer override and setup
- Supports Dimmer Doubling™
- System, rack, dimmer-specific load and diagnostic reporting

## OPTIONS

- Amp-Trap® fuses to allow feeding individual racks from oversized mains
- All-copper bus kits available
- Vibration reduction kits available for all racks

## ADDITIONAL INFORMATION

## Compatible Dimmer Modules

SENSOR ADVANCED FEATURES (AF) MODULES	
MODEL	DESCRIPTION
D15AF/D20AF	Dual 15A/20A Dimmer Module – 500µS – AF
D50AF	Single 50A Dimmer Module – 500µS – AF
D100AF	Half 100A Dimmer Module – 500µS – AF
D20HR	Single 20A Dimmer Module – 1000µS – AF
D20DHR	Dual 20A Dimmer Module – 800µS – AF
D50HR	Half 50A Dimmer Module – 800µS – AF
SENSOR SPECIAL-PURPOSE MODULES	
ELV10	Dual 10A dimmer for electronic low-voltage transformers
TR20SAF/TR20AF	Dual ThruPower Relay with dimmer
D15FB/D20FB	Single 15A/20A two-wire fluorescent dimmer with emergency battery backup
D15F/D20F	Single 15A/20A Fluorescent Dimmer Module
R15AF/R20AF	Dual 15A/20A Relay Module – AF
CC15/CC20	Dual 15A/20A Constant Circuit Breaker Module
AFM	Air Flow Module

## Control Modules

MODEL	DESCRIPTION
CEM3	Power Controller

## Load Wiring Lug Capacity

CONNECTION	WIRE SIZE
10A, 15A, 20A, and 50A lugs	4 AWG Max. (25mm <sup>2</sup> )
100A lugs	2/0 Max.

## Primary Feed Lug Capacity

CONNECTION	WIRE SIZE	FEED RATING
SR3-48	Dual 600 kcmil – 2 AWG	800A*
SR3-24	Dual 350 kcmil – 4 AWG	400A
SR3-12	Dual 250 kcmil – 6 AWG	200A
SR3-6	Single 2/0 – 14 AWG	100A

\*With the addition of an AX48-30 rack and amp traps, feeder sizes can increase up to 2,000A max. See Sensor Aux Bay datasheet for more details.

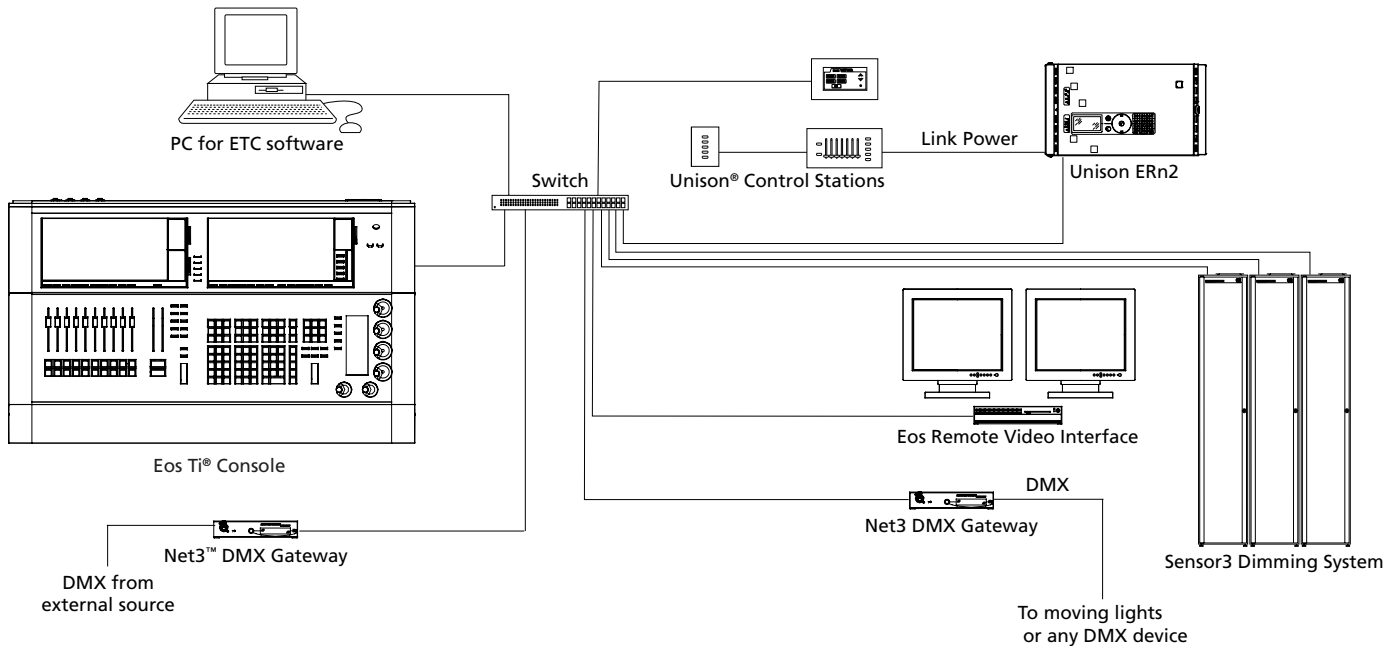
## Sound Pressure Level (dBA)

MODEL	dBA @ 1000Hz (1kHz)**	
	WITHOUT SSSh***	WITH SSSh
SR3-48	37.0	30.9
SR3-24	40.2	34.0
SR3-12	41.8	33.8
SR3-6	26.0	21.4

\*\*dBA values for each Sensor rack measured at one meter. Visit [www.etcconnect.com](http://www.etcconnect.com) for full spectrum dBA ratings.

\*\*\*Sensor Sound Suppression hood (SSSh)

### SAMPLE SYSTEM RISER



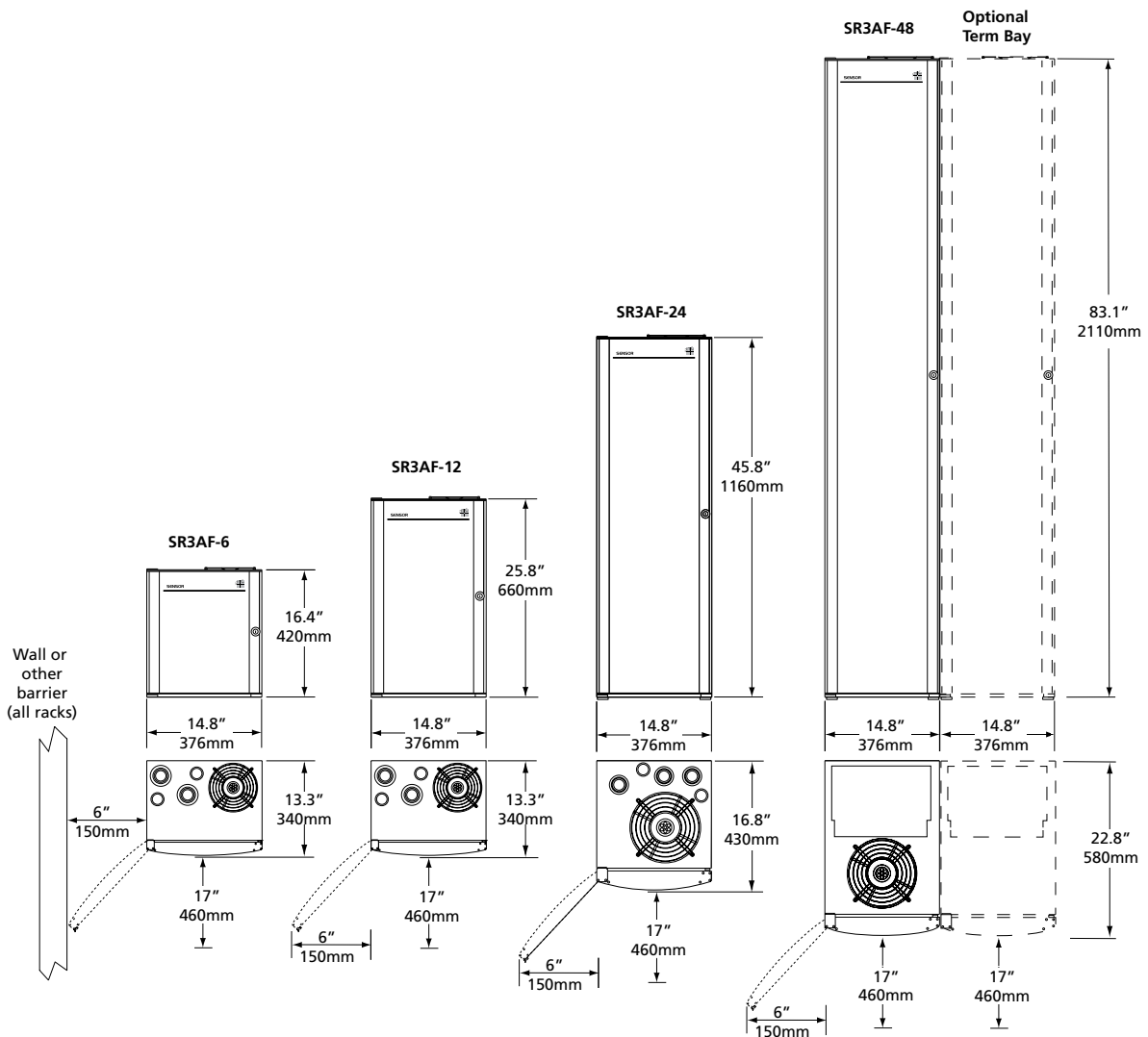
PHYSICAL

Empty Rack Weights\*

Rack Dimensions

MODEL	WEIGHT		SHIPPING WEIGHT		HEIGHT		WIDTH		DEPTH	
	lbs	kgs	lbs	kgs	inches	mm	inches	mm	inches	mm
SR3-48 w/Door	219	100	233	106	83.1	2110	14.8	376	22.8	580
SR3-48 w/ Term Bay	315	143	325	148	83.1	2110	29.6	752	22.8	580
SR3-24 w/Door	124	57	135	62	45.8	1160	14.8	376	16.8	430
SR3-12 w/ Door	56	26	64	30	25.8	660	14.8	376	13.3	340
SR3-6 w/ Door	36	16	45	21	16.4	420	14.8	376	13.3	340

\* Refer to module datasheets to calculate rack weight for other module types.



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Sensor® products protected by one or more of the following U.S. Patent Numbers 5,323,088, 5,352,088, 7,233,112, 7,019,469, 6,849,943, and 6,002,563; European Number 0603333T2; German 69203609.