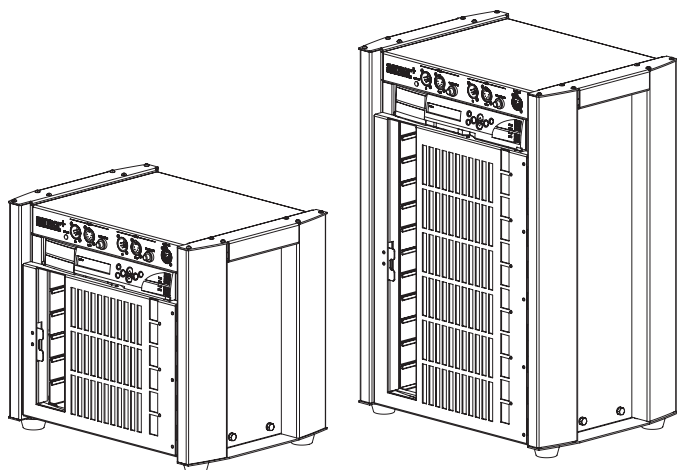# ETC®

Sensor®+ Portable Packs

Sensor+ Touring Series®

GENERAL INFORMATION

Sensor+ Portable Packs provide powerful digital dimming for small-scale portable applications setup for basic DMX applications out of the box. Simple mode change provides easy access to full-featured operation including networking and status reporting for larger and more sophisticated systems.

APPLICATIONS
- Digital dimming for traveling companies
- Professional black-box or seasonal theater
- Solo and ensemble music tours
- Dance and performance art tours
- Television studio and film productions
- Convention and conference centers

FEATURES
- 6 and 12 module packs available
- Rugged industrial construction
- Three-phase or single phase switch-able
- Cam-Lok® power input connectors
- Flexible load connection options
  - Twist-Lock® (GTL)
  - Stage Pin
  - Multi-pin
  - Edison
- CEM+ Control Electronics Module standard
  - Basic menu structure for simple DMX operation
  - Advanced configuration editing built into pack
  - Direct Ethernet control signal input as well as (two) DMX512-A inputs
  - Standard reporting and configuration networking
  - Optional Advanced Features (AF) reporting
  - Support ETC Dimmer Doubling™
- All packs UL and cUL Listed

OPTIONS
- Cam-Lok Pass Thru
- Castered Cart

ORDERING INFORMATION

Standard Sensor+ Portable Packs*

MODEL#	DESCRIPTION
6 MODULE PORTABLE PACKS	
SP1220A+	12 x 20A Portable Pack with Edison connectors
SP1220B+	12 x 20A Portable Pack with Pin connectors
SP1220C+	12 x 20A Portable Pack with Twist-Lock® connectors
SP1220V+	12 x 20A Portable Pack with Multi-pin connectors
SP1215A+	12 x 15A Portable Pack with Edison connectors
SP1215B+	12 x 15A Portable Pack with Pin connectors
SP1215C+	12 x 15A Portable Pack with Twist-Lock® connectors
SP1215V+	12 x 15A Portable Pack with Multi-pin connectors
SP1220AV+	12 x 20A Portable Pack with Edison & Multi-pin
SP1220BV+	12 x 20A Portable Pack with Pin & Multi-pin
SP650B+	6 x 50A Portable Pack with Pin connectors
SP3100B+	3 x 100A Portable Pack with Pin connectors
12 MODULE PORTABLE PACKS	
SP2420A+	24 x 20A Portable Pack with Edison connectors
SP2420B+	24 x 20A Portable Pack with Pin connectors
SP2420C+	24 x 20A Portable Pack with Twist-Lock® connectors
SP2420V+	24 x 20A Portable Pack with Multi-pin connectors
SP2415A+	24 x 15A Portable Pack with Edison connectors
SP2415B+	24 x 15A Portable Pack with Pin connectors
SP2415C+	24 x 15A Portable Pack with Twist-Lock® connectors
SP2415V+	24 x 15A Portable Pack with Multi-pin connectors
SP2420AV+	24 x 20A Portable Pack with Edison & Multi-pin
SP2420BV+	24 x 20A Portable Pack with Pin & Multi-pin
SP2420CV+	24 x 20A Portable Pack with Twist-Lock® & Multi-pin
SP1250B+	12 x 50A Portable Pack with Pin connectors
SP6100B+	6 x 100A Portable Pack with Pin connectors

Custom module configurations available for all Sensor+ Portable Packs. Contact ETC for details.

Standard Cam-Lok configuration is reverse/neutral/ground. Please specify desired Cam-Lok configuration on all orders to ensure correct configuration.

Packs ship 3-Phase as standard.

Any portable pack may be upgraded to Advanced Features (AF) by using AF Modules. Contact ETC for more details.

Portable Pack Accessories

MODEL	DESCRIPTION
Pass Thru	Cam-Lok Pass Thru Panel
Cart	Castered Cart for Portable Packs

SPECIFICATIONS

GENERAL
- Two sizes of pack available:
  - Small - 6 modules, 12 dimmers maximum
  - Large - 12 modules, 24 dimmers maximum
- Underwriters Laboratories cUL Marked, tested and Listed to the following standards:
  - UL508 (File: E152039)
- Complies with ESTA DMX512-A Standard
- Ambient temperature: 0-40°C / 32-104°F
- Relative humidity: 10-90% non-condensing

MECHANICAL
- Rugged aluminum construction
- Fine-textured, scratch-resistant, gray and black epoxy paint
- No tools required for module removal or installation
- Keyed module slots prevent insertion of inappropriate module types

THERMAL
- High efficiency cooling system with airflow sensor
- Easily cleaned electrostatic air filter
- Low-noise fan for quiet operation
- Ambient temperature: 0-40°C / 32-104°F

ELECTRICAL
- Easily switches from single–phase 120/240 VAC to three-phase 120/208 VAC operation
- Power frequencies from 47-62Hz
- Cam-Lok® power input connectors
- Cam-Lok pass thru connectors available
- Choice of Stage pin, Edison or Twist-Lock® or 19-pin multi-pin output connectors

ELECTRONICS
- Sensor+ Control Electronics Module (CEM+)
- Single Ethernet control signal input
- Two DMX512-A inputs with DMX termination switches as well as pass thru connectors
- High visibility LED status beacon
- Standard diagnostic reporting
- Supports ETC Dimmer Doubling™
- 4000V of optical isolation between control input and output
- Update rate is 40Hz; response to control is less than 25 milliseconds
- Dimmer outputs may be regulated to maintain constant power to loads

CONTROL FEATURES
- Basic menu structure for simple DMX operation
- Advanced configuration editing built into pack

OPTIONS
- Advanced Features (AF) dimmer-specific output reporting - requires Advanced Features (AF) dimmer modules
- Custom output panels (call ETC for details)
- Cam-Lok Pass Thru Panel
- Castered Cart

MODULE ORDERING INFORMATION

Control Modules

MODEL	DESCRIPTION
CEM+	Control Electronics Module +

Dimmer Modules

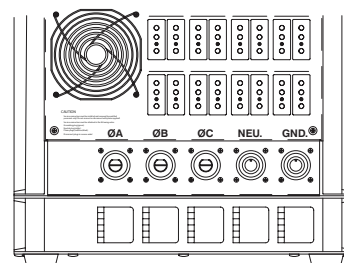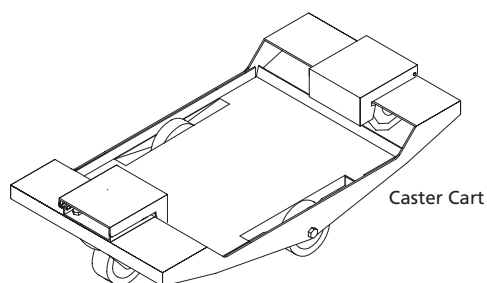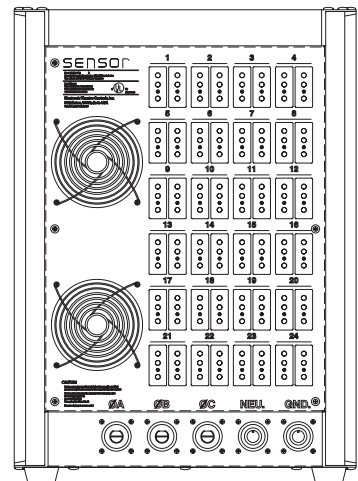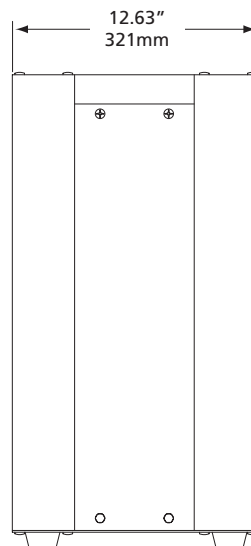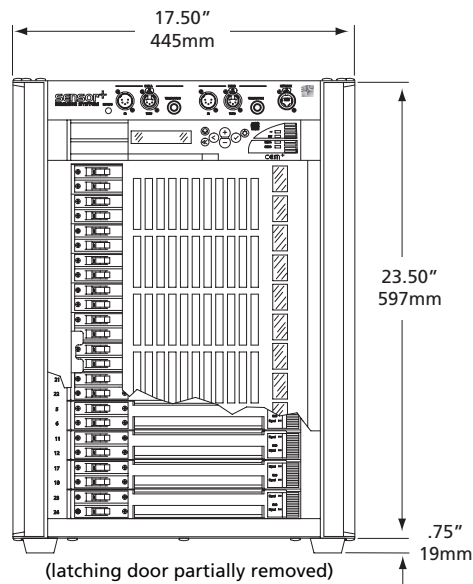| MODEL	DESCRIPTION
SENSOR STANDARD MODULES	
D15	Dual 15A Dimmer Module – 350µs
D15E	Dual 15A Dimmer Module – 500µs
D20	Dual 20A Dimmer Module – 350µs
D20E	Dual 20A Dimmer Module – 500µs
SENSOR ADVANCED FEATURES MODULES	
D15AF	Dual 15A Dimmer Module – 500µs – Advanced Features
D20AF	Dual 20A Dimmer Module – 500µs – Advanced Features
D20DHR	Dual 20A Dimmer Module – 800µs – Advanced Features
D20HR	Single 20A Dimmer Module – 1000µs– Advanced Features
D50AF	Single 50A Dimmer Module – 500µs – Advanced Features
D50HR	Double high* 50A Dimmer Module – 800µs – Advanced Features
D100AF	Double high* 100A Dimmer Module – 800µs – Advanced Features
SENSOR SPECIAL PURPOSE MODULES	
ELV10	Dual 10A Electronic Low Voltage Dimmer Module
D15F	Single 15A Fluorescent Dimmer Module
D20F	Single 20A Fluorescent Dimmer Module
R15	Dual 15A Relay Module
R20	Dual 20A Relay Module
R15AF	Dual 15A Relay Module – Advanced Features
R20AF	Dual 20A Relay Module – Advanced Features
CC15	Dual 15A Constant Current Module
CC20	Dual 20A Constant Current Module
AFM	Air Flow Module

*Double-high modules use two module slots.

PHYSICAL

Sensor+ Portable Packs

MODEL	HEIGHT		WIDTH		DEPTH		WEIGHT*		SHIPPING WEIGHT	
	inches	mm	inches	mm	inches	mm	lbs	kgs	lbs	kgs
6 MODULE PACK	15.0	380	17.5	445	12.63	321	70-90*	32-41	75-95	34-43
12 MODULE PACK	24.3	610	17.5	445	12.63	321	110-130*	50-59	115-135	53-62

*Actual weight depends on type of dimmer modules.

17.50"
445mm

12.63"
321mm

14.24"
362mm

.75"
19mm

(latching door removed)

17.50"
445mm

12.63"
321mm

23.50"
597mm

.75"
19mm

(latching door partially removed)

Caster Cart
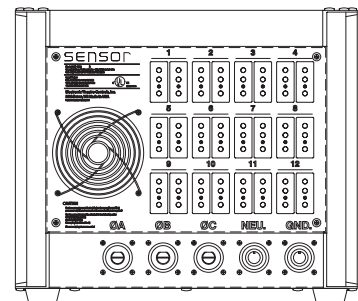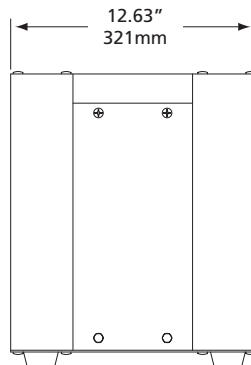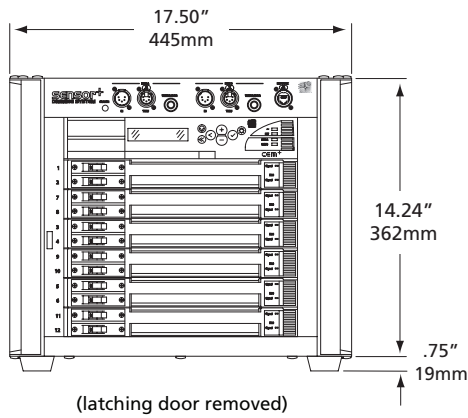
Cam-Lok®
Pass Thru Panel
(Adds 3" to pack)

BACK PANEL CONFIGURATIONS

6-MODULE PACKS

15A/20A Stage Pin outputs
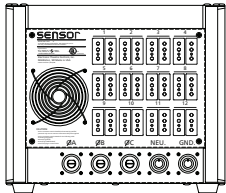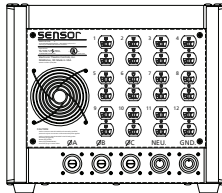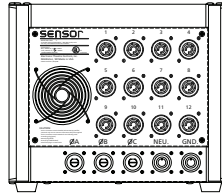
15A/20A Edison outputs

15A/20A Twist-Lock® outputs

15A/20A Multi-pin outputs
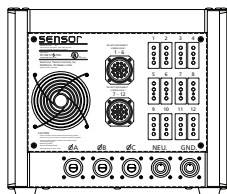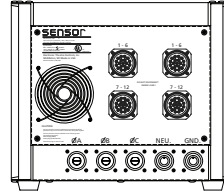
15A/20A Stage Pin
& Multi-pin outputs
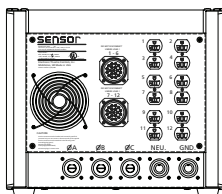
15A/20A Edison
& Multi-pin outputs
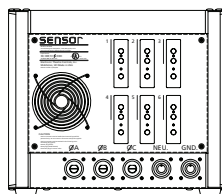
50A Stage Pin outputs
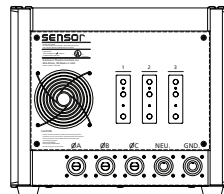
100A Stage Pin outputs

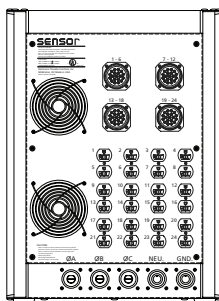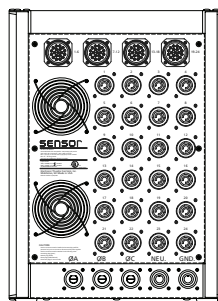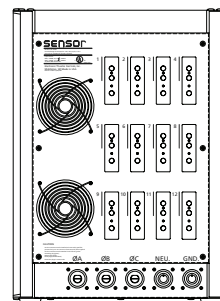### 12-MODULE PACKS

15A/20A Stage Pin outputs
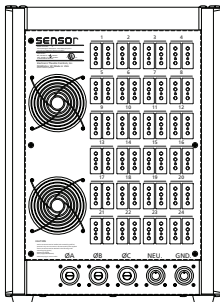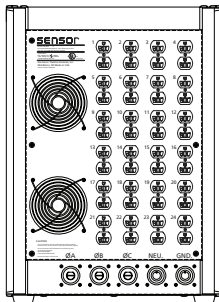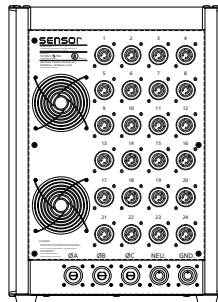
15A/20A Edison outputs

15A/20A Twist-Lock outputs

15A/20A Multi-pin outputs
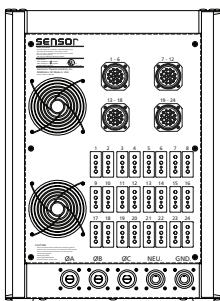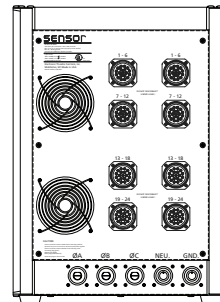
15A/20A Stage Pin
& Multi-pin outputs

15A/20A Edison
& Multi-pin outputs

15A/20A Twist-Lock
& Multi-pin outputs

50A Stage Pin outputs

100A Stage Pin outputs