GENERAL INFORMATION

APPLICATIONS
- Digital dimming for traveling companies
- Theatrical touring companies
- On-location film production
- Popular music tours
- Dance and performance art tours
- Remote event/convention productions
- Flexible performance spaces

FEATURES
- Small Touring rack accommodates up to 24 modules (48 without a patch bay)
- Up to two 2.4kW dimmers per module (120V)
- Rugged industrial construction
- Shipping-quality flight casing with no external latches
- Cam-Lok® power input connectors
- Flexible load connection options
  - Twist-lock® (GTL)
  - Stage pin
  - Multi-pin (with or without patch bay)
  - Edison
- Convenience outlets with breakers
- Advanced configuration editing built into rack
- Stores up to 128 presets in memory
- Direct Ethernet control signal input
- Dual DMX512-A In and Thru connections with visual indicator termination switches
- Standard system and rack monitoring with diagnostic reporting
- Supports ETC Dimmer Doubling™
- All racks UL and cUL Listed

ACCESSORIES
- Advanced Features (AF) dimmer-specific load reporting
- Custom output panels
- SSSs Sound Suppression Skirt
- Sensor+ Connect browser

ORDERING INFORMATION

Standard Sensor+ Touring Racks*

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP4815+</td>
<td>Sensor+ Touring rack with 24 – 15A modules</td>
</tr>
<tr>
<td>SP4820+</td>
<td>Sensor+ Touring rack with 24 – 20A modules</td>
</tr>
<tr>
<td>SPAF4815+</td>
<td>Sensor+ Touring rack with 24 – 15A modules</td>
</tr>
<tr>
<td>SPAF4820+</td>
<td>Sensor+ Touring rack with 24 – 20A modules</td>
</tr>
<tr>
<td>SPAF2450+</td>
<td>Sensor+ Touring rack with 24 – 50A modules</td>
</tr>
<tr>
<td>SPAF12100+</td>
<td>Sensor+ Touring rack with 12 – 100A modules</td>
</tr>
</tbody>
</table>

*Custom module configurations available for all Sensor+ Touring racks. Contact ETC for details.

Double Small Sensor+ Touring Racks*

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP9620+</td>
<td>Sensor+ Touring rack with 48 – 20A modules</td>
</tr>
<tr>
<td>SPAF9620+</td>
<td>Sensor+ Touring rack with 48 – 20A modules</td>
</tr>
<tr>
<td>SPAF4850+</td>
<td>Sensor+ Touring rack with 48 – 50A modules</td>
</tr>
<tr>
<td>SPAF24100+</td>
<td>Sensor+ Touring rack with 24 – 100A modules</td>
</tr>
</tbody>
</table>

*Double Small Touring Rack has two columns of modules and no patch bay.

Racks Accessories

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSSs 24</td>
<td>Sensor+ Sound Suppression Skirt – small</td>
</tr>
</tbody>
</table>
**Sensor®+ Small Touring Racks**

**Sensor+ Touring Series**

### Specifications

**GENERAL**

- 24-module small touring rack can hold up to:
  - 48 x 15A or 20A dimmers
  - 24 x 50A dimmers
  - 12 x 100A dimmers
- Ambient temperature: 0-40°C / 32-104°F
- Relative humidity: 10-90% non-condensing
- UL, cUL Listed

**MECHANICAL**

- All steel construction – welded rack frame
- No tools required for module removal or installation
- Heavy-duty 5 inch 360° swivel casters
- High efficiency, low noise, fan cooling system
- Filtered air intake
- Centrally located LED status beacon
- Single Ethernet control signal input
- Two DMX512-A input and pass thru connectors with termination switches
- Recessed work lights for output panel and patch bay illumination

**ELECTRICAL**

- Standard Cam-Lok® power input connectors (customers may specify other connectors)
- Cam-Lok pass thru connectors available
- Standard multi-pin output connector configurations available – 6-circuit Socapex-compatible standard (customers may specify other multi-pin connectors)
- One or two grounded stage pin connector outputs per dimmer, other discreet connectors available
- Built-in patch panel for assignment of multi-pin circuits (two or four outputs per dimmer)
- 20A hot pockets with the same discreet connector as used on the rack, paralleled in the patch bay, with fully magnetic circuit breakers
- Convenience outlets provided with fully magnetic circuit breakers

**ELECTRONICS**

- Control Electronics Module+ (CEM+)
  - 7-button control pad
  - 2-line by 20-character backlit LCD
- Standard diagnostic reporting
- Update rate is 40Hz; response to control is less than 25 milliseconds

**OPTIONS**

- Advanced Features (AF) dimmer load monitoring
- Custom configurations
- Custom output panels (call ETC for details)
- Enhanced patch – 4 outputs per dimmer
- Motor and moving light option panels
- Available for 240V operation or switchable 120/240V operation

### Module Ordering Information

#### Control Modules

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM+</td>
<td>Control Electronics Module +</td>
</tr>
</tbody>
</table>

#### Dimmer Modules

**SENSOR STANDARD MODULES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>D15</td>
<td>Dual 15A Dimmer Module – 350μs</td>
</tr>
<tr>
<td>D15E</td>
<td>Dual 15A Dimmer Module – 500μs</td>
</tr>
<tr>
<td>D20</td>
<td>Dual 20A Dimmer Module – 350μs</td>
</tr>
<tr>
<td>D20E</td>
<td>Dual 20A Dimmer Module – 500μs</td>
</tr>
</tbody>
</table>

**SENSOR ADVANCED FEATURES MODULES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>D15AF</td>
<td>Dual 15A Dimmer Module – 500μs – Advanced Features</td>
</tr>
<tr>
<td>D20AF</td>
<td>Dual 20A Dimmer Module – 500μs – Advanced Features</td>
</tr>
<tr>
<td>D20DHR</td>
<td>Dual 20A Dimmer Module – 800μs – Advanced Features</td>
</tr>
<tr>
<td>D20HR</td>
<td>Single 20A Dimmer Module – 1000μs– Advanced Features</td>
</tr>
<tr>
<td>D50AF</td>
<td>Single 50A Dimmer Module – 500μs – Advanced Features</td>
</tr>
<tr>
<td>D50HR</td>
<td>Double high* 50A Dimmer Module – 800μs – Advanced Features</td>
</tr>
<tr>
<td>D100AF</td>
<td>Double high* 100A Dimmer Module – 800μs – Advanced Features</td>
</tr>
</tbody>
</table>

**SENSOR SPECIAL PURPOSE MODULES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>L10</td>
<td>Dual 10A Low Wattage Dimmer Module</td>
</tr>
<tr>
<td>L10F</td>
<td>Single 10A Low Wattage Fluorescent Dimmer Module</td>
</tr>
<tr>
<td>D15F</td>
<td>Single 15A Fluorescent Dimmer Module</td>
</tr>
<tr>
<td>D20F</td>
<td>Single 20A Fluorescent Dimmer Module</td>
</tr>
<tr>
<td>R15</td>
<td>Dual 15A Relay Module</td>
</tr>
<tr>
<td>R20</td>
<td>Dual 20A Relay Module</td>
</tr>
<tr>
<td>R15AF</td>
<td>Dual 15A Relay Module – Advanced Features</td>
</tr>
<tr>
<td>R20AF</td>
<td>Dual 20A Relay Module – Advanced Features</td>
</tr>
<tr>
<td>CC15</td>
<td>Dual 15A Constant Circuit Breaker Module</td>
</tr>
<tr>
<td>CC20</td>
<td>Dual 20A Constant Circuit Breaker Module</td>
</tr>
<tr>
<td>AFM</td>
<td>Air Flow Module</td>
</tr>
</tbody>
</table>

*Double-high modules use two module slots.*
Sensor®+ Small Touring Racks
Sensor+ Touring Series

RISER REAR PANEL OPTIONS

OPTION PANELS
(9 spaces per row, 1 row standard)

- (E.T.C. #7053A1601) CONVENIENCE PANEL 2 SPACE
- (E.T.C. #7053A1602) STAGE PIN HOT POCKET 3 SPACE
- (E.T.C. #7053A1603) EDISON HOT POCKET 4 SPACE
- (E.T.C. #7053A1604) TWIST-LOCK® HOT POCKET 5 SPACE
- (E.T.C. #7053A1605) 50A STAGE PIN HOT POCKET 3 SPACE
- MOVING LIGHT HOT POCKET 3 SPACE
- MOTOR PANEL HOT POCKET 2 SPACE

REAR VIEW (Door removed)

OUTPUT PANEL

OUTPUT PANEL

POWER PANEL

MULTI-PIN OUTPUT PANELS
Socapex Compatible

- (E.T.C. #7053A1201) (LABELED A-P) (E.T.C. #7053A1214) (LABELED Q-FF)
- (E.T.C. #7053A1204)
- (E.T.C. #7053A1206)
- (E.T.C. #7053A1415)
- (E.T.C. #7053A1416)
- (E.T.C. #7053A1417)
- (E.T.C. #7053A1418)

DISCREET OUTPUT CONNECTOR PANELS

- 20A STAGE PIN (E.T.C. #7053A1302)
- 20A STAGE PIN (E.T.C. #7053A1309)
- 20A TWIST-LOCK (E.T.C. #7053A1305)
- 20A EDISON (PARALLEL BLADE AND GROUND) (E.T.C. #7053A1306)
- 50A STAGE PIN (E.T.C. #7053A1304)

CAM-LOK® CONFIGURATION
REVERSE GND. & NEU. IN
ALL MALE IN
INPUT/OUTPUT CAM-LOKs

HEAVY-DUTY FULL-ROTATION CASTERS

MANUFACTURED Controls, Inc.
Electronic Theatre
MIDDLETON, WISCONSIN  U.S.A.

MANUFACTURED Controls, Inc.
Electronic Theatre
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MANUFACTURED Controls, Inc.
Electronic Theatre
MIDDLETON, WISCONSIN  U.S.A.
**Sensor®+ Small Touring Racks**

**Sensor+ Touring Series**

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**PHYSICAL**

### Touring Rack Dimensions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>Small Rack</td>
<td>50</td>
<td>1270</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

### Touring Rack Weights

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT*</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Rack</td>
<td>650*</td>
<td>295 lbs</td>
<td>295 kgs</td>
</tr>
</tbody>
</table>

*Actual weight depends on type of modules used and options selected.

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**Note:** Shown with Cam-Lok® Pass Thru option.