# Performance Controls

## SCRimmer Road Racks

## Features

- Small, Compact Design
- Heavy-duty Construction
- Optically Isolated DMX Input
- Multi-Link Control Electronics
- Filtered Air Intake
- Integrated 400 Amp Disconnect
- Cam-Lock E1016 Series Power Inputs
- Simultaneous Digital and Analog Signals
- Industrial Grade Casters with Neoprene Covers
- Optional Dimmer Patch for Multi-pin Outputs
- Optional Socopex Output Connectors
- Built-in Fork Lift Tongues

Multi-Link Supports

- DMX-512
- AMX-192
- RS422
- 0-10 Analog

2 x 2 x 12 Road Rack

## Description

The SCRimmer Road Rack offers a compact portable dimming system with high performance components for reliable service in the touring market. The tubular steel frame design allows all panels to be recessed in order to protect the output panels and dimmer modules from the rigors of touring.

The SCRimmer Road Rack is available in 48-2.4kw, 24-6.0kw and 12-12.0kw versions.

Multi-Link control electronics offer a wide variety of features demanded by the touring professional. The plug-in module is fused, protected by a Power On switch. Power indicators are provided for each phase to confirm operation and an Input Power Error indicator illuminates when power is misapplied.

The multiplex signal format switch selects either USITT DMX-512, AMX-192, or RS422 while allowing simultaneous input of an analog signal. The multiplex signal indicator confirms the presence of a valid control signal for operation. The dimmer output test buttons allow the user to switch on any or all dimmers without a control console. The dimmer status indicator lights illuminate proportionally when the dimmer is addressed by a console. The Multi-Link control electronics feature a built-in diagnostics routine to confirm operational status.

With the integration of compact, full feature control electronics and high performance components, the SCRimmer Road Rack offers the right package for the portable production market.

## Ordering Information

### Road Racks

- ❒ 2 x 2 x 12 Road Rack (48-20A dimmers)
- ❒ 2 x 6 x 12 Road Rack (24-50A dimmers)
- ❒ 1 x 1 2 x 12 Road Rack (12-100A dimmers)

### Outputs

- ❒ 96-020A GSP output connectors
- ❒ 96-020A GSP outputs + 1 Socopex output per circuit
- ❒ 48-020A GSP outputs + 2 Socopex outputs per circuit
- ❒ 24-060A GSP output connectors
- ❒ 12-100A GSP output connectors

### Options

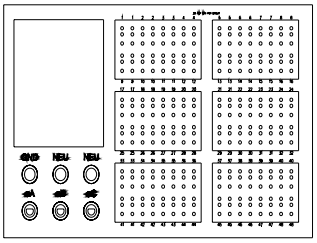
Custom configurations available upon request.

**Electronics Diversified, Inc.**
1675 NW Cornelius Pass Road • Hillsboro OR 97124 USA
(503) 645-5533 • (800) 547-2690 • FAX: (503) 629-9877
www.edionline.com

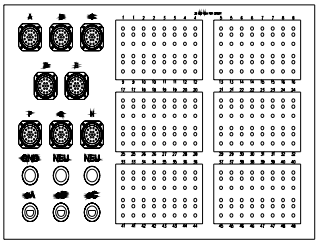
## Electrical Characteristics

**Back Panel Outputs**

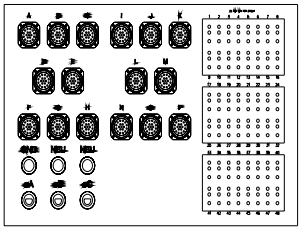
**2 x 2 x 12**
96-20A GSP output connectors



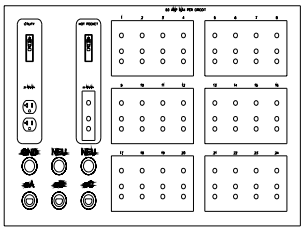
**2 x 2 x 12**
96-20A GSP output connectors
1 - Socopex output per circuit



**2 x 2 x 12**
48-20A GSP output connectors
2 - Socopex outputs per circuit



**2 x 6 x 12**
24-60A GSP output connectors



## Power Distribution

| | |
|---|---|
| **Input Connectors** | Cam-Lock E1016 Series.<br>Female power terminals for A, B, C phases.<br>Two Male neutral and ground terminals.<br>Input Power Error Indicator. |
| **Main Disconnect** | 400 Amp, three-pole molded case breaker.<br>Power Indicators for each phase.<br>Hot Pockets powered with Main switch off. |
| **Cooling** | Filtered forced air. |

## Mechanical Characteristics

| | |
|---|---|
| **Dimensions** | 29½" D x 33" W x 30" H (with Casters)<br>(74.93cm x 83.82cm x 76.20cm) |
| **Enclosure** | Steel tube frame, rails and fork lift tongues.<br>Removable aluminum side and output panels.<br>Illuminated patch box with locking door (optional).<br>Silk-screened identification for outputs. |
| **Covers** | Four sides plywood cladding. |
| **Shipping Weight** | 450-500 lbs. (204-227kg) |

## Specifications

**Road Rack**

1. The unit shall be constructed of 1½" x 1½" x 1/8" square tubular steel frame with 2" x 6" x 3/16" steel reinforced base. All side panels shall be constructed of aluminum, designed for easy removal, and finished with black epoxy paint. Plywood covers shall be available to fit flush with the steel frame to protect the panels from damage in shipping. Steel rails mounted to the plywood covers shall contain the mounting hardware. All nomenclature shall be permanently silk-screened in white.
2. All standard load wiring shall be stranded, tinned, copper wire rated at 200° C and sized in accordance with the National Electric Code.
3. The unit shall be forced-air cooled by continuous duty, low-noise fans. The filtered air input shall come from the side. The rack shall be capable of continuous full load operation in ambient temperatures up to 104° F (40° C).
4. There shall be cam-lock connectors for input power with two neutrals and one ground. The unit shall be able to operate on three-phase, 4-wire, 120/208 VAC input power with an integral 400A disconnect. Available in 220-240 VAC, 50Hz configurations.
5. Hot pocket outputs shall be available for both multi-pin outputs and standard outlets. Hot pockets are powered when disconnect is off. Hot pockets are accessed through the lockable side patch door.
6. Dimmer module control connectors shall be designed so that modules of a greater capacity cannot be operated within the rated capacity of the wired position.
7. The front panel shall have an input power indicator which shall light when voltage is detected between the neutral and ground conductors.
8. The SCRimmer Road Rack with Multi-Link shall be manufactured by Electronics Diversified, Inc., Hillsboro, OR.

**Dimmer Modules (see separate data sheet)**

**Control Module**

1. The control module shall slide into the front of the road rack and all wiring shall terminate in plug connectors.
2. The control unit shall properly receive USITT DMX-512 digital multiplex, AMX-192 analog multiplex, or RS422 digital multiplex via a 5-pin XLR-type connector. The multiplex format may be changed by a single front panel-mounted switch.
3. Upon receipt of a valid multiplex signal, a yellow indicator shall light. A maximum two-second pause in any portion of the multiplex transmission shall be tolerated without adversely affecting the dimmer output.
4. The dimming system shall be able to operate simultaneously on a multiplex signal and analog 0-10 volt signal.
5. The system shall illuminate a pilot light for each power phase during operation. Input power to the control module shall be fused.
6. The control module shall support individual output test buttons for each dimmer. The test buttons shall bump the output of the dimmer to full momentarily or lock to an ON position without a signal from a console present. The test button shall indicate status of the dimmer by proportionally illuminating when the dimmer is addressed.
7. The control module shall support a diagnostics routine to confirm operational status.
8. All dimmer control electronics shall be contained on a double-sided, through-hole plated fiberglass circuit board.
9. The control module shall be a recognized component of Underwriters Laboratories and so labeled.
10. The Multi-Link series shall be manufactured by Electronics Diversified, Inc., Hillsboro, OR., USA.