

SCRimmer STIK™



User Manual

Installation

Location: Although SCR dimmers are very efficient, solid-state dimmers still generate heat. Allow adequate space around the enclosure for ventilation. Allow adequate space between the lighting fixtures and the Stik enclosure.

Mounting: The unit may be mounted to a pipe with standard fixture clamps, mounted to a wall with the wall mounting brackets, or suspended with a pipe using the pipe mounting brackets.



WARNING:

The maximum working load using the pipe mounting brackets is 100 lbs. When using the pipe clamp mounting bracket, use a safety cable.

If you are unsure about a mounting method, contact a qualified rigger.

To mount the Stik, attach the desired bracket to the back of the unit with the supplied screws. The pipe clamp mounting bracket may be attached so the Stik is mounted above or below the pipe. The wall mount bracket may be used for wall or ceiling mount.

Loads: This unit is designed to dim incandescent light sources, low voltage light sources with electronic or magnetic transformers only.

NOTE: Only dimmable electronic transformers may be used. Electronic transformers vary greatly by manufacturer. Some low voltage fixtures may flicker when dimmed. If this happens, try a different type of transformer or fixture.


 **DO NOT EXCEED 600 WATTS PER DIMMER**

Power Source:

This unit is designed to operate on 120 volts, 50 or 60 Hz AC power. An internal jumper may be changed to allow operation at 240 VAC. This dimmer must be connected to a suitable branch circuit not exceeding 20 amps.

 **DO NOT CONNECT THE STIK TO OTHER THAN THE SPECIFIED VOLTAGE.**

 **DO NOT CONNECT THE STIK TO THE OUTPUT OF ANOTHER DIMMER.**

 **DO NOT EXCEED THE BRANCH CIRCUIT BREAKER RATING OF THE CIRCUIT.**

Supply Cord:

The dimmer is supplied with a Type SO #12/3 AWG supply cord.

NOTE: Only use 12 gauge or larger extension cords with this unit. Using smaller gauge cords may cause overheating of the power cord.



WARNING:

MAXIMUM ambient operation and storage environment for this equipment is 104 F. (40C), with 90% humidity, non-condensing. This product is protected by an internal thermal sensor. If the unit overheats, it will automatically shut itself off. It will come back on after the unit has cooled down. To prevent overheating, allow adequate air circulation between the unit and lighting fixtures, do not operate in direct sunlight or in high ambient temperatures. The external case of the Stik may get hot to the touch after operating at maximum capacity over an extended period of time.

This product is designed for indoor use only. Do not expose this unit to rain.



Operation

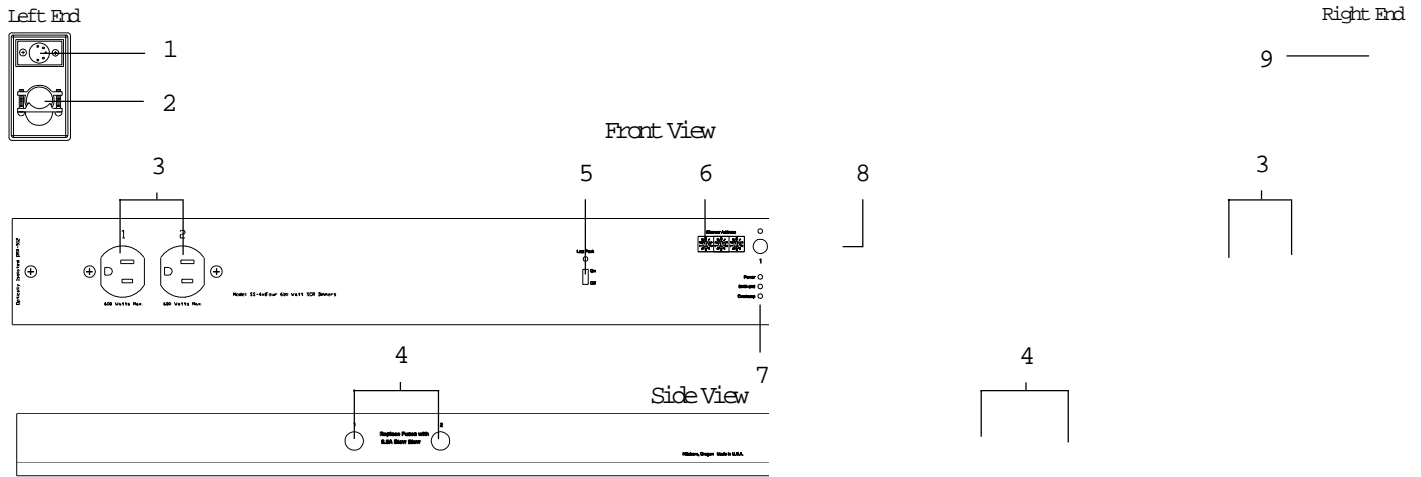


Diagram of Stik with PBG connectors

- 1. DMX Input:** A 5 pin Opto-Isolated XLR connector on the end of the Stik. The input connector is mounted adjacent to the power cord.
- 2. Power Cord:** With strain relief cable clamp.
- 3. Load Connectors:** Varies with the type of connectors ordered.
- 4. Fuse Holders:** Each dimmer in the Stik has a fuse to provide supplemental protection. These fuses will protect the dimmer in the event of a short circuit or overload condition. Replace with 6.25A 250VAC ceramic slow blow fuses.
- 5. Last Stik Switch:** When on, this terminates the DMX-512 data line. If the Stik is at the end of a cable, this switch should be on. Only the last Stik in the DMX-512 data link should have this switch set to the "On" position. A yellow LED indicates when the termination is active.
- 6. Start Address:** Three rotary switches to select the dimmer starting address. Set the switch from 001 to 509 to select the desired starting address for the first dimmer in the Stik. (Address for dimmer number 1) The remaining three dimmers will follow in sequence, one after another. Setting the starting address to 000 will disable the DMX-512 input.
- 7. LED Indicators:** Power, DMX, and Overtemp LED indicators.

- 8. Test/Focus:** These buttons operate in two modes. If the Stik is connected to a valid DMX-512 transmission, the button cause the corresponding dimmer to fade to 100%, the LED above the button will flash to indicate that the dimmer is in test mode. Pressing the button again will cause the dimmer to return to the current DMX-512 level. If the dimmer is left in test mode, it will time-out after about 2½ minutes, and the dimmer will revert back to the current DMX-512 level. When no valid DMX-512 transmission is being received, the Test button may be used to manually adjust the output level of the dimmer. Pressing the button will raise or lower the dimmer output. Multiple presses may be used to set the dimmer to the desired level. The LED above the button will show the approximate dimmer output. As long as no DMX-512 signal is being received, the dimmer will stay at the desired level.

- 9. DMX Output:** The output connector may be used to string additional Stiks together. All 5 pins are connected between the input and output connectors. The pin-out is as follows:
 - 1 - Signal Ground
 - 2 - Data-
 - 3 - Data+
 - 4 - Not used
 - 5 - Not used

Note: DMX output should not be used when the Last Stik switch (#5) is in the "On" position.

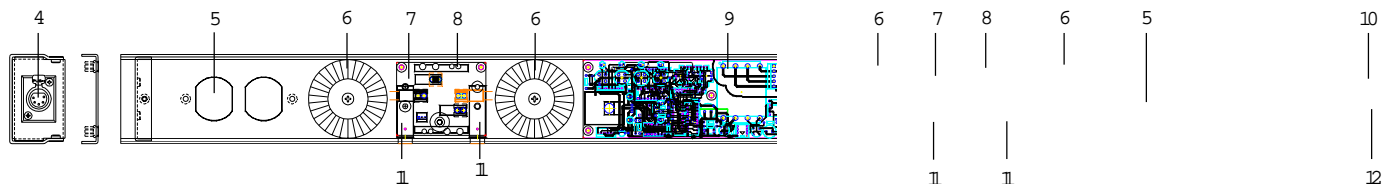
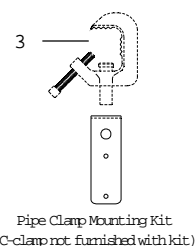
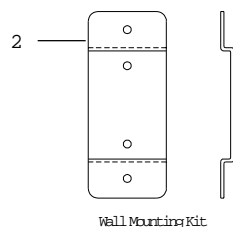
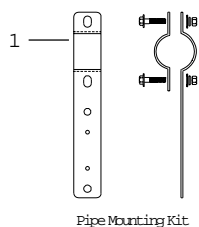


Troubleshooting

Symptom	Possible Cause	Remedy
Nothing works, Power indicator is off.	No AC power.	Check incoming power source, or breaker.
Nothing works, Power indicator is off, incoming power is good.	Bad control board, or blown fuse.	Check internal fuse. Send Stik in for repair.
	Stik plugged into wrong voltage.	Make sure the Stik is set to the same source as the power source.
DMX light won't come on.	No DMX-512 source.	Check DMX-512 source.
	Bad DMX cable	Check Cable.
	Invalid Dimmer Address	Set address switch to proper starting address of 001 to 512.
A dimmer won't come on.	Dimmer level set to zero.	Make sure the control console is sending a valid level.
	Bad lamp / fixture	Check lamp or fixture.
	Blown fuse.	Check dimmer output fuse.
A dimmer won't go out.	Blown SSR.	Replace solid state relay.
Output fuses keep blowing.	Overload. Wrong fuse.	Do not exceed 600 watts per output. Use 6.25 Amp 250VAC ceramic slow-blow fuses.
Lamps flicker or flash.	Stik plugged into a dimmer.	Plug the Stik into a standard power source, not the output of a dimmer.
	Bad DMX cable	Check DMX cable.

Replacement Parts

Replacement parts are available from EDI or your local dealer.



EDI Part Number	Description
1. 019-5502	Pipe Mounting Kit
2. 019-5501	Wall Mounting Kit
3. 019-5503	Pipe Clamp Mounting Kit (C-clamp not included)
4. 017-4221	5-pin XLR Output connector
5. 133-0030	PBG Duplex Receptacle, 15A (2)
132-0138	GSP Grounded Stage Pin (4) (optional)
133-0032	GTL Grounded Twist Lock (4) (optional)

EDI Part Number	Description
6. 108-0057	Choke, Toroid (4)
346-1021	Choke cover (not shown)
7. 670-2352	Circuit board, power (2)
8. 017-4222	Solid State Relay (SSR) assembly (4)
9. 670-2351	CPU circuit board
10. 017-4220	5-pin XLR Input connector
11. 352-0031	Fuseholder insert with...
...159-0028	Output fuse (6.25A Slow Blow 250V)
12. --	110VAC Input Power Cord

Service

EDI offers a 24 hour Service / Support Network.

For technical questions about this product or operational assistance, ask for Customer Service at: 1-800-547-2690

You may communicate by FAX: 1-503-629-9877

After Hours Emergency contact: 1-503-645-5533

Ask for Emergency Assistance.

Internet Address: www.edionline.com

Internet E-Mail: service@edi.org

If your Stik needs repair, call 503-645-5533 for a Return Materials Authorization number, and a **shipping address** will be furnished

Registration

CUT ALONG DOTTED LINE

Attention SCRimmer STIK owners!

Please return this registration card immediately.

Your prompt attention to this matter will ensure your receiving updated technical information for this product as it becomes available. Please complete all information. Look for acknowledgment of your registration within 6-8 weeks.

Name: _____

Title: _____

Facility and/or Company: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Fax: _____

E-mail: _____

Web site: _____

**Mail to:
EDI User Manual Registration
1675 NW Cornelius Pass Road
Hillsboro, Oregon 97124
or FAX to: (503) 629-9877**

