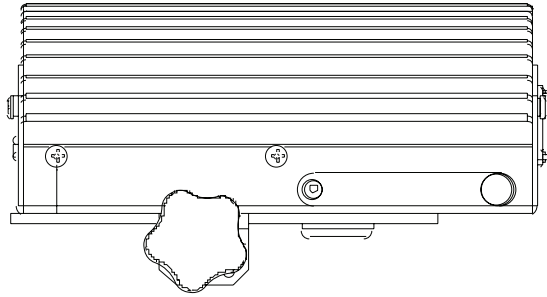


Bak Pak® Individual IGBT Dimmer - 120V



Overview

The Bak Pak® IGBT Intelligent Dimmer from Entertainment Technology is a compact, individual dimmer module that can be attached to a conventional lighting fixture, or a nearby structure or wall, providing powerful IGBT capability in places where traditional dimmers are impractical. It can be used as a stand-alone dimmer, or as a compliment to any existing lighting system. Since Bak Pak is powered from a standard 120V power source, it eliminates the need for dimmer racks, packs, or remotely located dimmers of any kind.

Each Bak Pak incorporates a local focus button for quick set-up and testing, as well as a built-in set of user-selectable effects including Bounce Up, Bounce Down, Bell Curve, 50% Bump, Blink On and Blink Off.

Bak Pak dimmers utilize Entertainment Technology's patented Insulated Gate Bipolar Transistor (IGBT) technology, which provides significant performance over conventional SCR-based dimming equipment. Since IGBT dimmers do not use filter chokes, the system is virtually silent, eliminating vibrations, buzzing, and other mechanical noises. Overall, IGBT dimmers are more efficient (max 2.5 voltage drop at full), lightweight (less than 2 lbs. per dimmer), and produce less heat than conventional dimmers. In addition, each contains an on-board, intelligent micro-processor which adjusts and maintains proper voltage and current in response to changes detected in the load and electrical service, which serves to extend lamp life. The micro-processor also automatically suppresses surges, and protects against short circuits. IGBT dimmers significantly reduce neutral harmonics and can be configured to operate in LOW HARM® mode, making them one of the lowest harmonic generating dimmers available.

Features

- Chokeless IGBT dimming - no magnetics, no noise, less wasted energy and heat
- Available in 750 or 1200 watt versions
- Absolute voltage and current regulation - longer lamp life
- Reverse phase or forward phase control - quiet loads
- LOW HARM® mode - controls harmonic neutral currents
- Natural convection - quiet operation, no fans or air filters
- Lightweight and compact - fits virtually anywhere
- Four different mounting options to suit any installation: Yoke, C-Clamp, Pipe, or Wall mount
- Focus button on each dimmer - saves set-up time
- Controlled by standard DMX512 protocol
- Built-in effects (user-selectable): Bounce Up, Bounce Down, Bell Curve, 50% Bump, Blink On, Blink Off, and more

Ordering Info

Bak Pak IGBT Dimmers:

IPS-BP-7501	750W, 120VAC Bak Pak IGBT Dimmer
IPS-BP-12001	1200W, 120VAC Bak Pak IGBT Dimmer

Bak Pak Accessories:

IPS-BP-YOKEMT	Bak Pak Yoke Mount Bracket (with safety cable)
IPS-BP-PIPEMT	Bak Pak Pipe Mount Bracket (with safety cable)
IPS-BP-WALLMT	Bak Pak Wall Mount Bracket
IPS-MB-105	"C" Style Clamp (use with IPS-BP-PIPEMT)
IPS-DMXT	DMX512 Termination Plug
IPS-BPC	Network Coupler (for use with Bak Pak Intelligent Effects Network)

Notes:

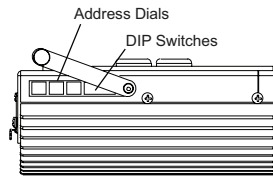
1. All Bak Pak IGBT Dimmers supplied without connectors.
2. An IPSDMXT Termination Plug is required when a Bak Pak is located at the end of a DMX512 line.
3. For connector or special mounting, contact Entertainment Technology.

Bak Pak® Individual IGBT Dimmer - 120V

Specifications

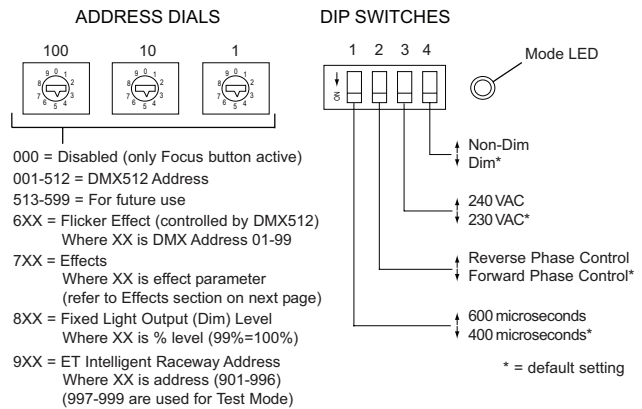
Number of Dimmers:	1 IGBT Dimmer
Max Output Voltage:	120VAC
Min/Max Dimmer Load:	1W / 750W or 1200W *
Transition Time:	450 or 800 micro-seconds (user selectable)
Insertion Loss:	Max 1.5 Volts (1%)
Supply:	120VAC, 6.5A or 10A per module *
Frequency:	50 / 60 Hz.
Control Connections:	DMX512 In and Out/Thru
Circuit Protection:	Short Circuit/Thermal/Overload
Ambient Temperature:	0° to 50° C
Relative Humidity:	5% to 95%, non-condensing
Cooling Method:	Natural Convection **
Height:	6.82 inches (173.2 mm)
Width:	4.53 inches (115.0 mm)
Depth:	750W: 2.93 inches (74.4 mm) 1200W: 3.18 inches (80.8 mm)
Weight :	750W: 2.0 lbs. (0.95 kg) 1200W: 2.25 lbs. (1.02 kg)
Power In Feed:	36 inch (914 mm) cable provided from unit
Power Out Feed:	18 inch (457 mm) cable provided from unit

The Bak Pak® features user-selectable DIP switches and address dials under side panel. Basic operation is as follows:

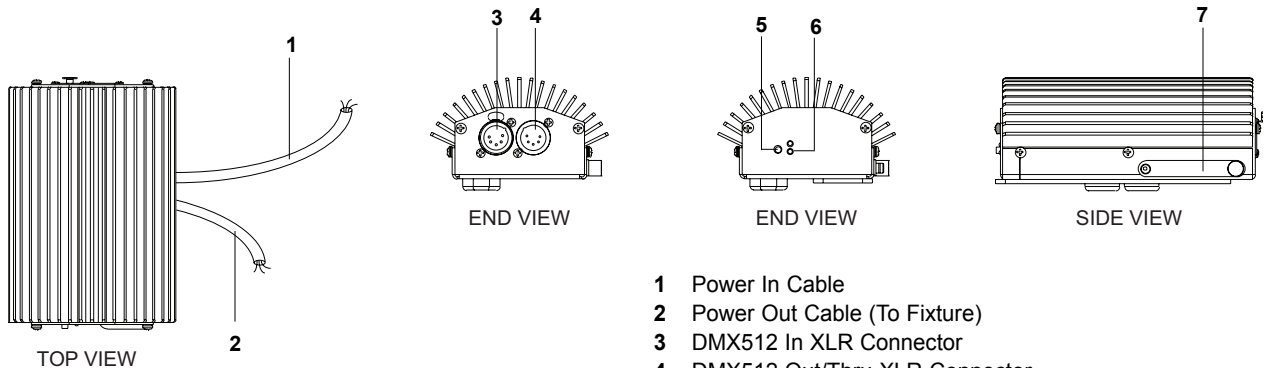


To Access DIP Switches & Address Dials:

- Step 1. At side of module, locate recess panel.
- Step 2. Loosen thumbscrew and rotate cover.
- Step 3. Using #0 (small) flathead screwdriver, set switches as required. Refer to the diagram below.



* Depends on model
** It is recommended that the Bak Pak be mounted vertically to allow for optimum natural convection cooling.



- 1 Power In Cable
- 2 Power Out Cable (To Fixture)
- 3 DMX512 In XLR Connector
- 4 DMX512 Out/Thru XLR Connector
- 5 Focus Button
- 6 Status Indicators
- 7 DIP Switches and Address Dials (under cover)

This product may be covered by one or more of the following U.S. Patents: #4,413,211; 4,430,576; 4,465,956; 4,733,138; 4,792,731; 4,880,950; 4,988,840; 4,992,709; 5,004,969; 5,004,969; 5,128,654; 5,153,816; 5,189,259; 5,194,858; 5,239,255; 5,239,255; 5,371,439; 5,371,444; 5,506,480; 5,636,111; 5,642,104; 5,646,490; 5,814,550; 5,821,704; 5,920,156; 5,930,126; Des. #307,578; 333,124; 435,203; 440,207; License #4482844; 5,004,969; 5,239,255; and corresponding foreign patents. Other Utility, Design and Foreign Patents Pending. We reserve the right to change details of design, materials and finish in any way that will not alter the installed appearance or reduce function performance. Specifications are subject to change without notice.

