

***PRO*Dimmer**

2,000 WATT PRECISION AC DIMMER

INSTRUCTION MANUAL



McIntire Enterprises, Inc.

12986 Mapleleaf Ct. NE. Aurora, OR 97002-8418

Phone: 503-678-6236

www.magicgadgets.com

benchtech@magicgadgets.com

TABLE OF CONTENTS

INTRODUCTION

Pg.2 Introduction

Pg.3 Safety first

Pg.4 Control layout & function

Pg.5 Connections & enclosure features

GETTING STARTED / INSTALLATION

Pg.6 Getting started

Pg.6-7 Additional features

TROUBLESHOOTING

Pg.7 Troubleshooting

Pg.8 Warranty

INTRODUCTION

Thank you for purchasing a Magic Gadgets product! Every unit is hand assembled to ensure a quality build that will last for years. The use of high end components on the inside makes a big difference; outlasting other products many times over. Our company does not participate in mass marketed ad campaigns; we instead rely on the customer (that's you), to let everyone know how cool this gadget really is!

Here we have one of our original dimmers first made way back in 1973. Over the years our look has changed and the internal components have been upgraded but the quality still remains. You get a single dimmer knob with our pre-heat trim for enhanced adjustment. A control pot for the interface is included, for adjustment over the effects input from our popular SHADOWMAKER lighting F/X unit.

A cool feature in the PRODimmer comes with the ON/OFF push buttons, when the unit loses power (breaker trip, power failure, ETC.) it stays off until you press the ON button again. This feature limits the chances of cold starts that can damage equipment (optional always on internal jumper feature available).

Cooling is passive but we include a fan for extreme conditions or if silence is not needed. This unit is capable of 2,000 Watts nominal and 2,400 Watts Max power handling from a standard household outlet. With proper wiring, connectors & fuses these units can easily go up to 3K. It will also dim anything that's dimmable.

Each single channel utilizes industrial grade 5-15 input & output connectors along with an overrated 40A power device. Protection is provided by a 20A fuse (fuses are fast) each time you replace them, it's like installing a new breaker, at a fraction of the cost. We also use high temperature Teflon coated wire & the best interconnects. This means your investment will last through years of use or abuse!

SAFETY FIRST!

WARNING - TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED TECHNICIAN.

DO NOT EXPOSE UNIT TO DIRECT SUNLIGHT OR EXTREME TEMPERATURES.

REMOVE FROM POWER BEFORE CLEANING & ONLY WITH A DRY OR SLIGHTLY DAMP CLOTH. A MILD SOLVENT (SUCH AS ISOPROPYL ALCOHOL) MAY BE USED TO REMOVE HEAVY DEPOSITS.

DO NOT BLOCK ANY VENTILATION OPENINGS. MAINTAIN A SIX INCH (152.4mm) CLEARANCE FROM ANY ITEMS THAT COULD IMPEDE COOLING.

DO NOT MODIFY THE PLUG OR SOCKET IN ANY WAY. THE GROUND PINS ARE PROVIDED FOR YOUR SAFETY. CONSULT AN ELECTRICIAN TO REPLACE AN INADEQUATE WALL OUTLET OR WALL BOX.

CONNECT AC POWER ONLY TO A MAINS SOCKET WITH A PROTECTIVE EARTHING CONNECTION & SUPPLY CIRCUIT PROTECTION I.E. CIRCUIT BREAKER, FUSE, ETC.

UNPLUG DURING LIGHTNING STORMS OR WHEN NOT BEING USED FOR A LONG PERIOD OF TIME.

ONLY USE EXTENSION CABLES THAT ARE CAPABLE OF HANDLING CURRENT REQUIRED FOR YOUR PARTICULAR APPLICATION. PROTECT POWER CORDS FROM BEING WALKED ON OR PINCHED. AVOID THE USE OF UNGROUNDED POLARIZED PLUGS; DAMAGE TO THE UNIT MAY RESULT.

CORD LENGTH AND CAPACITY CHART (FOR REFERENCE ONLY)

	25/50FT	100FT	150FT	200FT	250FT
16 GAUGE	13AMPS	10AMPS	NA	NA	NA
14 GAUGE	15AMPS	13AMPS	7AMPS	NA	NA
12 GAUGE	20AMPS	15AMPS	10AMPS	8AMPS	7AMPS
10 GAUGE	20AMPS	20AMPS	15AMPS	10AMPS	10AMPS

LONGER LENGTHS CONDUCT LESS AMPS DUE TO DROP IN VOLTAGE!

CONTROL LAYOUT AND FUNCTION

1. Main dimmer dial (controls unit output from 0-100%)
2. Input / Preheat + trimmer (pre-sets dimmer dial output)
3. Green & Red buttons (turns unit ON & OFF/Standby respectively)
4. BLF type fuse holder with 20A fast-blow fuse installed
5. NEON output indicator (glows orange with output level)
6. Ground fault indicator (flashing green) *does not indicate a high current ground
7. High set control dimmer (when using interface from Shadowmaker or Flicker 2D)

FIG. A



CONNECTIONS & ENCLOSURE FEATURES

1. AC INPUT (Edison type male plug for incoming AC power)
2. OUTPUT (Edison type female socket for lamp connection)
3. Chassis loops for rigging with rope, chain, steel cable, etc.
4. Fan exhaust (pulls hot air out, DO NOT BLOCK!)
5. Heat sink area on back of unit (power device cooling, DO NOT BLOCK!)
6. Interface Input / Thru (FX Out from Shadowmaker or Flicker 2Digital goes here)

FIG. B

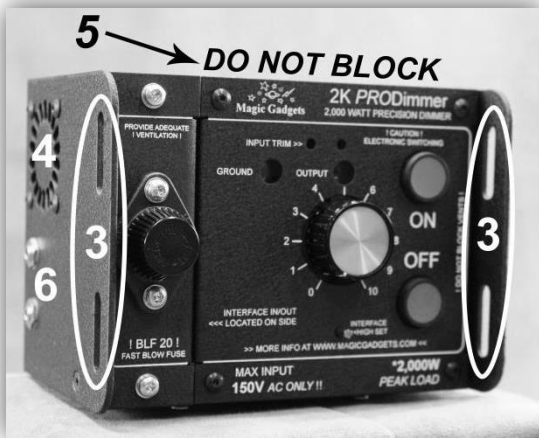
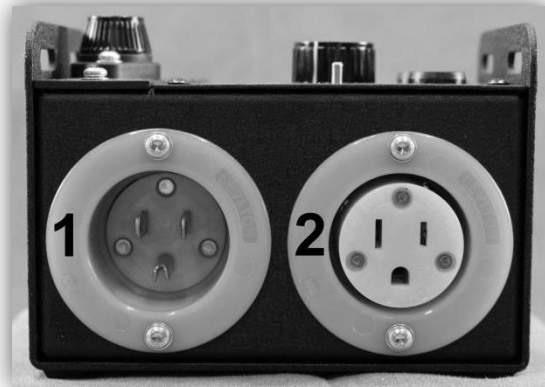


FIG. C

GETTING STARTED

Plug a load up to 2,400 Watts Maximum into the output (fig. B)

Make sure dimmer dial is at ZERO (fig. A)

Using the proper gauge extension cord; apply power to the input (fig. B)

Press the ON button & while in view of the lamps, use the Input / Preheat + trimmer (fig. A) to trim the output up to a useable level.

Then using the main dimmer dial (fig. A-1) to dim lamps up to desired level

ADDITIONAL FEATURES This unit is equipped with a fan, its use is not necessary; however we do recommend using the it at all times, especially when operating in HOT environments (ambient air temps are above 80°Fahrenheit) AND @ the rated output of 2,000 - 2,400 Watts MAX.

If you are consistently using smaller loads (1.5kW, 1kW, .5kW) or if you require absolute silence please set fan mode switch to OFF.

The fan ON/OFF switch is located inside the unit, “wait...WHAT? Why did you do that?” This is our way to stop users of rented gear from shutting the fan OFF and potentially damaging the unit from overheating.

We have seen it all from sound blankets to plastic bags, remember these items will cause overheating and the fan is there to help prevent it! THE FOLLOWING SHOULD ONLY BE DONE WHEN THE UNIT IS NOT ENERGIZED! YOU COULD BE SERIOUSLY HARMED & DAMAGE THE UNIT!



ADDITIONAL FEATURES

The 2x 1/8" phone jacks located on the side of the unit (fig. C-7) accept signal output from our Shadowmaker or Flicker 2Digital lighting FX units only.

1. Connect a 1/8" 2 conductor or "mono" audio cable to the out from a Shadowmaker (Channels 1, 2 or 3) or Flicker 2Digital (single output).
2. Connect other end to either phone jacks on the PRODimmer
3. Connect unused phone jack on PRODimmer to additional PRODimmers. The chain is limited to a maximum of 35 units.
4. Control effect LOW-SET with main dimmer dial (fig. A-1) and effect HIGH-SET with High set control dimmer (fig. A-7)

TROUBLESHOOTING

Q. Is there a minimum load?

A. No minimum load is necessary for proper operation.

Q. Will my dimmer work with other loads like LED, Fluorescent, ETC?

A. Although the unit was not designed for use with these types of loads; their use will not harm the dimmer, and my work depending on the application.

Q. Why is the "output" indicator on? I have no load connected.

A. This feature is telling you that no load or an open circuit is present.

Q. I keep blowing fuses! What's wrong?

A. This is happening because there is a short in the electrical connection, either before or after the unit. Check your cables, lamps, ETC. You also may be drawing too much current by using inadequate cabling, check the cord length & capacity chart on pg.3

NOTE: 25-30A FUSE MAY BE USED IF NECESSARY!

THE LIMITED LIFETIME WARRANTY

*Our products will be warranted for the lifetime of the unit & shall be free of any Manufacturer defects. *The Warranty card must be returned within (30) thirty days to participate in the program.*

PLEASE KEEP THIS PAGE INTACT FOR YOUR RECORDS

Our products are warranted for a period of one (1) year from the date of delivery, to the original purchaser or lessee, to be free from defects in materials or workmanship. *We will, at our option, extend this warranty beyond one year. The warranty terms stated here **MUST BE KEPT** to validate this extension.

The sole and exclusive remedy for breach of any warranty concerning the products shall be repair or replacement of defective parts at no charge to the original purchaser or lessee, at the discretion of McIntire Enterprises, Inc.

These products are designed and intended for use by competent professionals only. The individual user should determine before use whether these devices are suitable, adequate, or safe for the use intended. Because individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application. Direct, incidental, special or consequential damages or losses resulting from the use, or misuse, of these devices shall be the sole responsibility of the purchaser or lessee.

(Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.)

Subjecting the units to excessively rough handling, moisture, high voltages, overloading the output, operating the unit without proper ventilation, improper packaging for shipping, damage incurred during shipping, any improper or negligent use, or any attempt to open & repair or modify the unit, or removal or obscuring of the serial number label will void the warranty. Warranty may be limited to original purchaser as shown on original invoice.

PLEASE TAKE A MOMENT AND FILL THIS OUT, YOU MAY NEED IT LATER!

OWNER: _____

SERIAL #: _____ **DATE:** _____