

# SHADOWMAKER

3 Channel 6kW Lighting FX Generator & Dimmer

## INSTRUCTION MANUAL



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## 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!

All 3 Channels have the ability to set a LOWEST output light level & a HIGHEST output light level. We have also added a trimmer to each channel to adjust the subtleness based on load connected; this is critical providing an effect window that is truly MAGIC! You can even output this magic to our PRODimmer.

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).

No programing skills required just plug and play. Simply use 3 light sources and spread them apart about 3-10ft (more distance gives a greater shadow effect). Each channel works together to create a realistic lighting motion that you can't get from a single light source. Effects Include Chase, Firelight, TV, Lightning, etc. The unit will also function as a 3 channel dimmer (each channel will dim anything that is dimmable) and no minimum load is required for proper operation.

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.

Each channel has an industrial grade 5-15 input & output connector 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
<b>16 GAUGE</b>	13AMPS	10AMPS	NA	NA	NA
<b>14 GAUGE</b>	15AMPS	13AMPS	7AMPS	NA	NA
<b>12 GAUGE</b>	20AMPS	15AMPS	10AMPS	8AMPS	7AMPS
<b>10 GAUGE</b>	20AMPS	20AMPS	15AMPS	10AMPS	10AMPS

**LONGER LENGTHS CONDUCT LESS AMPS DUE TO DROP IN VOLTAGE!**



## CONNECTIONS & ENCLOSURE FEATURES

1. AC INPUT (Edison type male plug for incoming AC power)

*NOTE: Channel 1 Requires Power for proper operation!*

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. Interface output (Send each channel effects to PRODimmer)

6. External sync input



**FIG. B**



**FIG. C**

## GETTING STARTED

Plug 3 loads up to 2,400 Watts EA. Maximum into the outputs (fig. B)

Make sure Low sets, High sets & Speed controls are at ZERO (fig. A)

Set switches 1-4 in the up position & Sync to INT. Turn Input trims up CW.

Using the proper gauge extension cords; apply power to the inputs (fig. B)

**NOTE: Channel 1 Requires Power for proper operation!**

**NOTE: No single effect will work for everyone and each channel must be set based on personal preference. We suggest you take some time BEFORE the day of the shoot to play with your new toy and get used to how it operates!**

Press the ON button & Use switches 1-4 to select desired effect (fig. A)

<u>DIGITAL EFFECTS LIBRARY</u>			
LOCK (NO FLICKER)	ON ON ON ON	LIGHTNING 2	ON OFF OFF ON
ON CHASE, R TO L	OFF ON ON ON	TV/FILM LIGHT 1	ON OFF ON OFF
ON CHASE, L TO R	ON OFF ON ON	TV/FILM LIGHT 2	ON ON OFF OFF
OFF CHASE, R TO L	ON ON OFF ON	TV/FILM LIGHT 3	OFF OFF OFF ON
OFF CHASE, L TO R	ON ON ON OFF	CANDLELIGHT 1	OFF OFF ON OFF
WOBBLE, L R L R	OFF OFF ON ON	CANDLELIGHT 2	OFF ON OFF OFF
REGULAR BLINK	OFF ON OFF ON	FIRELIGHT 1	ON OFF OFF OFF
LIGHTNING 1	OFF ON ON OFF	FIRELIGHT 2	OFF OFF OFF OFF

Slowly adjust High sets for a more dramatic effect

Slowly adjust Low sets for a more subtle effect (Use Low set for Dimming!)

**THE EFFECT WILL TAKE PLACE BETWEEN THESE TWO LEVELS!**

Use the Speed control to adjust how fast your Shadowmaker runs through its effects

**FOR AN EVEN MORE SUBTLE EFFECT:** Make sure High sets are at zero and the Low sets are somewhere between 0 & 5, then turn the input trims down CCW until the light is barely visible. This will adjust the overall scale of the effect input to each channel. It allows you to have even more precise FX adjustment over each channel. (fig. A)

**TIP:** Spreading the lamps further apart creates a wider more active shadow motion; when the lamps are clustered together they will provide a more even effect that's less dramatic.

**TIP:** Try setting up the lamps vertically instead of horizontally, to create a totally different look.

**TIP:** Use additional Shadowmakers or our other FX devices such as the Flicker 2Digital or Flicker / Dimmer in combination. This will not only increase the output power available but provide added realism when creating firelight effects.

**TIP:** One of the three channels may be on and another off or changing state during the sequence of the selected program.

## **ADDITIONAL FEATURES**

Use the 3x 1/8" Interface outputs (fig. B) to send each channel effect to our PRODimmers. Connect a 1/8" 2 conductor or "mono" audio cable & plug the other end to the interface input of a PRODimmer. Or you can make your own using 2 conductor lamp cord and 1/8" MONO phone plugs; make sure to check polarity; reverse polarity could damage the unit!

### **INTERFACE OUTPUT & SYNC INPUT**

**TIP=POSITIVE      RING=NEGATIVE**

**NOTE: SET THE SYNC SWITCH TO EXT. for the following procedure!**

The Sync input (fig. C) disables the internal speed control for an external source. This can be another Magic Gadgets product such as the Flicker 2Digital, a nominal 12 VDC pulse source, or a switching source such as animation or motion control equipment. With each positive pulse edge the effect will step 1 position. 256 pulses returns the memory to the beginning of the program.

Sync input is compatible with any 12 VDC (Nominal) noiseless signal source.



# SHADOWMAKER

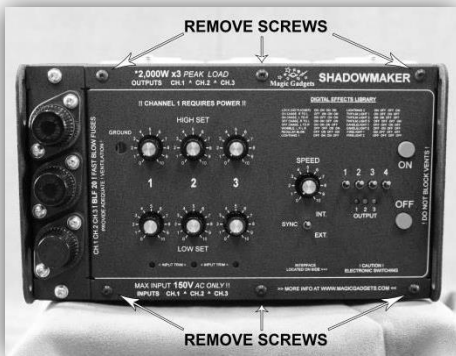
## COOLING FAN

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!



## **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. Can I use one channel as a dimmer and keep the effect running on the others?**

**A. No, the Shadowmaker does not work that way; each of the 3 channels work together to create a single effect.**

**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 FUSES MAY BE USED IF NECESSARY!**

**If you are still having trouble with your Shadowmaker please contact us via e-mail or over the phone. All contact info is at [magicgadgets.com](http://magicgadgets.com)**

## 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:** \_\_\_\_\_