

DYNALITE m1000er STROBE LIGHTING KIT

INTRODUCTION

&

SETTINGS

CONTENTS OF A DYNALITE KIT

The kit contains a power pack and power cord, two strobe heads, two strobe head cords, a sync cord, a light meter, and a set of pocket wizards. A second bag includes two stands and two umbrellas.



Attaching the power cord to power pack



Notice circuit breaker on back, which can be reset.

The POWER BUTTON powers both the strobe and model lamps, both on or off. The option for strobe on with model off can be used for long exposures or multiple strobe exposures.



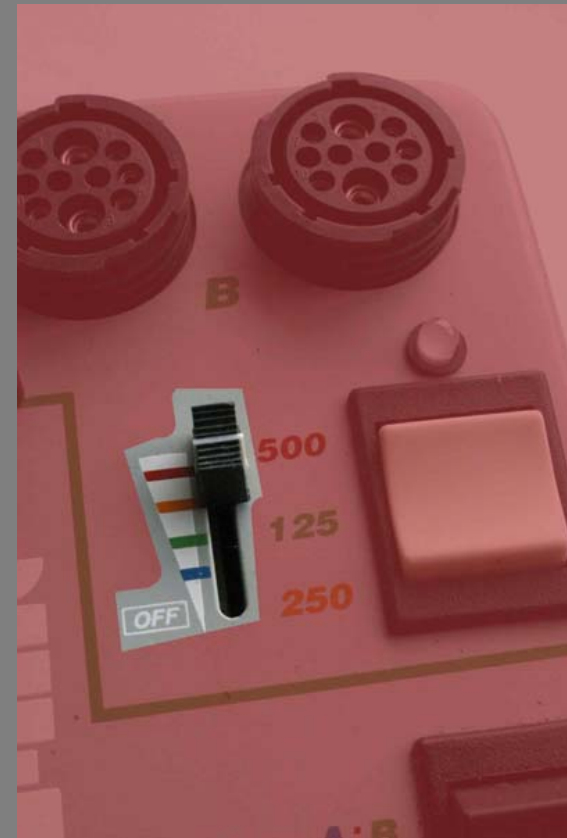
The on/off sound switch is positioned below the power switch. The beep indicates when the capacitors have a full charge. Always wait for the beep before making another exposure to avoid “racing the pack” and damaging the unit.

VARIABLE MODELING LIGHTS

Some Dynalite kits that UTD checks out to students do not have a variable modeling light switch.



NON VARIABLE SWITCH (UTD)
JUST ON/OFF



VARIABLE SWITCH

Gauge proper exposures by using a light meter. The visible light produced by the modeling lights can vary from the actual exposure on your camera sensor or film.

TERMINOLOGY

✦ Strobe lamp/head/flashtube

- ✦ 5000° Kelvin daylight balanced.
- ✦ This is the variable intensity light source; adjustments are made by modifying the power pack strobe output settings.

✦ Model lamp

- ✦ 3200° Kelvin tungsten balanced.
- ✦ This 250W light source provides the photographer with an approximate view of the lighting direction and contrast on subject. Flash exposure will have an approximate look but will vary greatly in intensity and color temperature.

✦ Power pack

- ✦ Capacitor stores a charge to output power to the strobe at levels adjusted by the photographer.
- ✦ Light output and appropriate f-stop can be gauged with a strobe/flash-light meter.

Channel selector switch

A:B asymmetrical power settings through each channel.

A+B symmetrical power settings through both channels.



✦ Think of this as a way to cut in half or double your current power settings.

✦ Power pack and camera synchronization

- ✦ Power pack must be synched with the camera via a sync cord or a wireless syncing device. (Cord is included in kit).
- ✦ Shutter speed on camera must be set to camera manufacturer's fastest sync speed, usually 1/125 second, or slower depending on desired effect.

- ✦ Dynalite m1000er is surge protected to guard against electrical damage to digital cameras. Older Dynalite models require surge protection syncs.

- ✦ **Asymmetrical: not identical power settings on separate channels A & B.**
- ✦ **Symmetrical: identical power settings on separate channels A & B.**

- ✦ Use extreme care handling the pack and strobe heads to avoid serious electrical shock and injury. 1000 watts is a deadly charge.
- ✦ **Do not use near water.**

POWER PACK WITH ONE STROBE IN CHANNEL A



Channel A power output switch

500/125/250 watts (notice how 125W setting is BETWEEN 500 and 250.)

Channel A has the capability of handling two strobes at a time.



Channel B power output switch

500/125/250 watts

(notice how 125W setting is BETWEEN 500 and 250.)

Channel B has the capability of handling two strobes at a time.



Capabilities include:

- ✦ Asymmetrical and symmetrical power output options.
- ✦ Adjustable in various ways:
 - ✦ Incremental **power settings** 125/250/500 watts for each channel A or B.
 - ✦ Also, adjustable with a -1/3,-2/3,-3/3 of a stop **variator**.
 - ✦ Power output to channels set to A+B=symmetrical
 - ✦ i.e: 1 head with both channels at 500W, variator at full will deliver a full 1000W burst.
 - ✦ Power output to channels set to A:B=asymmetrical
 - ✦ i.e: 2 heads, one each in A and B channels will deliver the desired power independent of each other. A or B either at 125, 250 or 500W.

VARIATOR SETTINGS

Adjust settings on both channels A and B by plus or minus by 1/3 stop to a full stop

VARIATOR at full power



VARIATOR at one stop reduced power.

Each notch is equal to a plus or minus 1/3 stop increment



Highest and lowest power settings

MAXIMUM light output/power setting: 1000 watts

A+B, COMBINE, Variator set to FULL, 1000 watts to one head (or 250 watts to four heads) directed at the subject.

MINIMUM light output/power setting: 31 watts

A:B, ISOLATE, 125 watts, Variator set to LOW (-1), would result in a 62.5 watt burst.

This setting can be reduced one stop by adding a second light, inserted into the same channel. Point the second strobe head **away** from subject. The first strobe head, directed toward the subject, will now yield only a 31 watt burst (half of 62 watts).

MAXIMUM power setting



A+B
COMBINE
symmetrical

MAXIMUM power setting, at 500
watts each channel



A+B
combine



A B
500 250

= 750 watts
= 325A + 325B
symmetrical
COMBINE

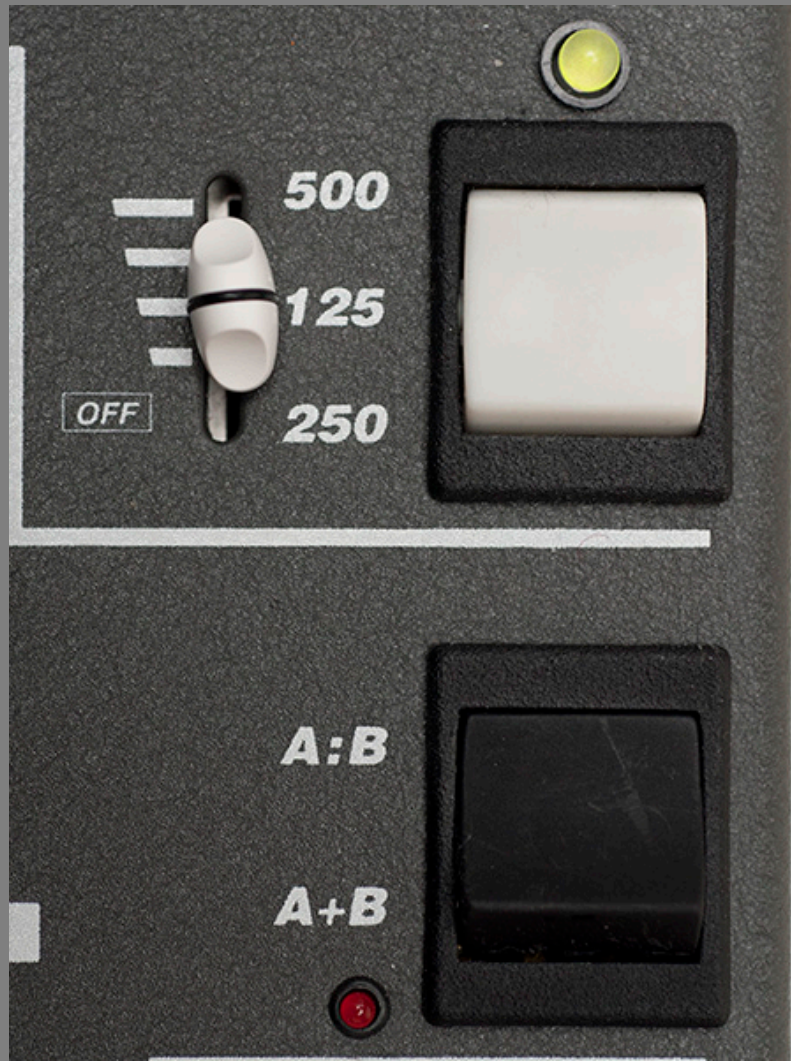
A + B

MINIMUM power setting



A:B
ISOLATE
asymmetrical

MINIMUM power setting at 125 watts, each channel



A:B
isolate



A **B**
500 **250**
= 750
= 500A+250B
asymmetrical
ISOLATE
A : B

EXAMPLE ASYMMETRICAL POWER SET UP:

- ✦ Two strobes are attached to power pack, one in channel A and the other in channel B.

A:B, ISOLATE

- ✦ (asymmetrical or non-identical) setting is selected.

Channel A is set at 500 watts.

Channel B is set at 250 watts.

THE COMBINED POWER OUTPUT = 750 WATTS. BUT EACH STROBE LIGHT IS GOING TO BE RECORDED WITH A 2 STOP DIFFERENCE BY THE CAMERA. i.e. the light output for each strobe head will differ by 2 stops.

In addition, KEEP IN MIND that factors such as light to subject distance, direction of the light and film speed (digital ISO) are judged and metered to determine actual camera exposure settings.

Strobe lamp/head/flash

- ✦ Strobe has various features:
- ✦ Yellow lamp cover must be removed prior to use.
- ✦ Fan cools head during operation.
- ✦ Model lamp switch on back.
- ✦ Strobe head power cord.
- ✦ Stand attachment knob and adjustment arm.
- ✦ Umbrella attachment opening and knob.
- ✦ Wait for head to cool prior to re-attaching yellow lamp cover.



Strobe fan and model lamp on/off switch



Strobe head's flashtube and modeling bulb

A horseshoe shaped flash tube surrounds the cylindrical-shaped tungsten modeling lamp.

Never touch or adjust these lamps.

Any repairs or maintenance must be handled by UTD staff.



Attaching the strobe head's power cord

Line up the power cords male/female ends very precisely.

As you push the two together, turn the locking nut clockwise.

This is a troublesome procedure; failure to get a tight connection can be quite dangerous.

Keep the two ends lined up **WHILE** applying steady force and turning the locking nut. See next detail.



Attaching the strobe head's power cord



Attaching the strobe head's power cord to the power pack.

Attach the strobe head cable to the desired channel.

The cords have a white dot to aid connectivity. The raised white strip on the cord fits into the rectangular slot of the channel.



Attaching the sync cord to the power pack

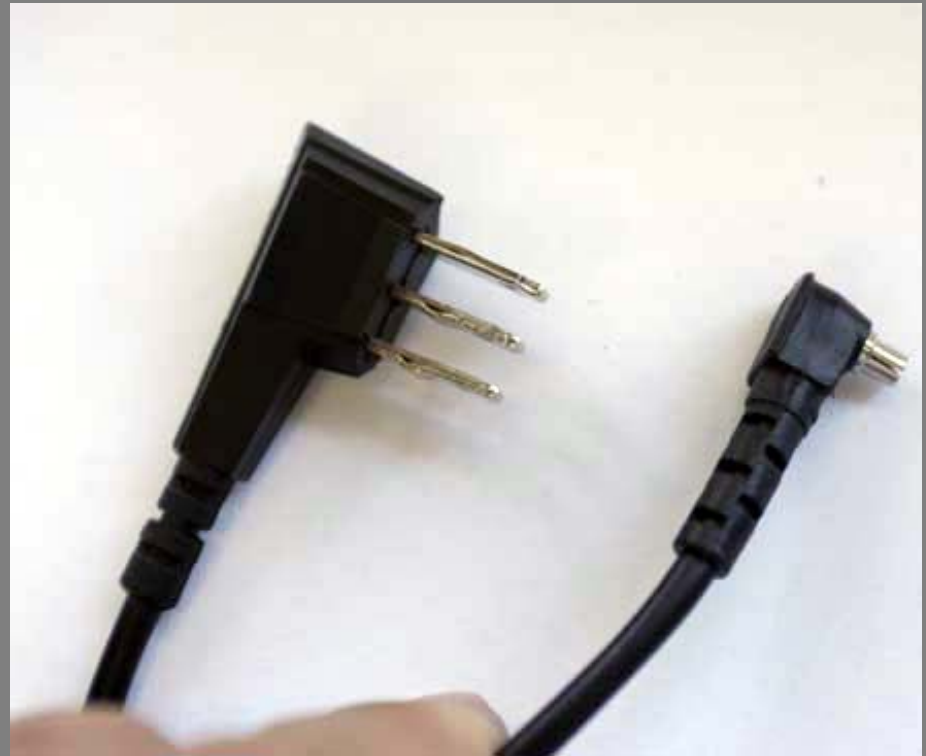


SYNC CORD DETAILS

On the left, sync cord end that attaches to power pack.

On the right, sync cord end that attaches to camera.

A specialized sync cord will allow you to attach a pocketwizard to the powerpack.



Attach the sync cord to the camera sync hotshoe when working without a Pocketwizard.

Some cameras have a pc sync. Illustrated below is the Wein HSHSB PC to Hotshoe Safe Sync designed to protect digital cameras and to connect a PC cord to a camera with a hotshoe.



Wein Safe Sync?

The Dynalite 1000er kits produce a reduced voltage of 10 volts, which renders them digital safe for most cameras. If you have an older Canon Rebel (film/digital), then the limit may be 6 volts. Check with your camera/strobe manufacturer to learn if a Safe-Sync is required for your lighting set-up when using a sync cord. A Safe Sync is not required when using Pocketwizards.

POCKET WIZARD

- ✦ Most of our lighting kits contain two pocket wizards.
- ✦ The pair of pocket wizards are set on the same channel as the light meter.
- ✦ Place first pocket wizard on camera hot shoe; connect the second to the pack using the short sync cord.
- ✦ A conventional long sync cord is not required when the pocket wizards are used to sync the flash.
- ✦ Verify that the batteries in the pocket wizards are properly charged.

Attaching the sync cord to the flash meter



Sync terminal

Strobe head detail view for light stand adjustments:

The top image shows the stand tightening knob in the standard opening, which fits onto light stands.

Adjust the tilt lever to control the angle of the light once the strobe head is placed on the light stand.



STROBE HEAD DETAIL VIEW FOR UMBRELLA ATTACHMENT

do not over-tighten locking knob



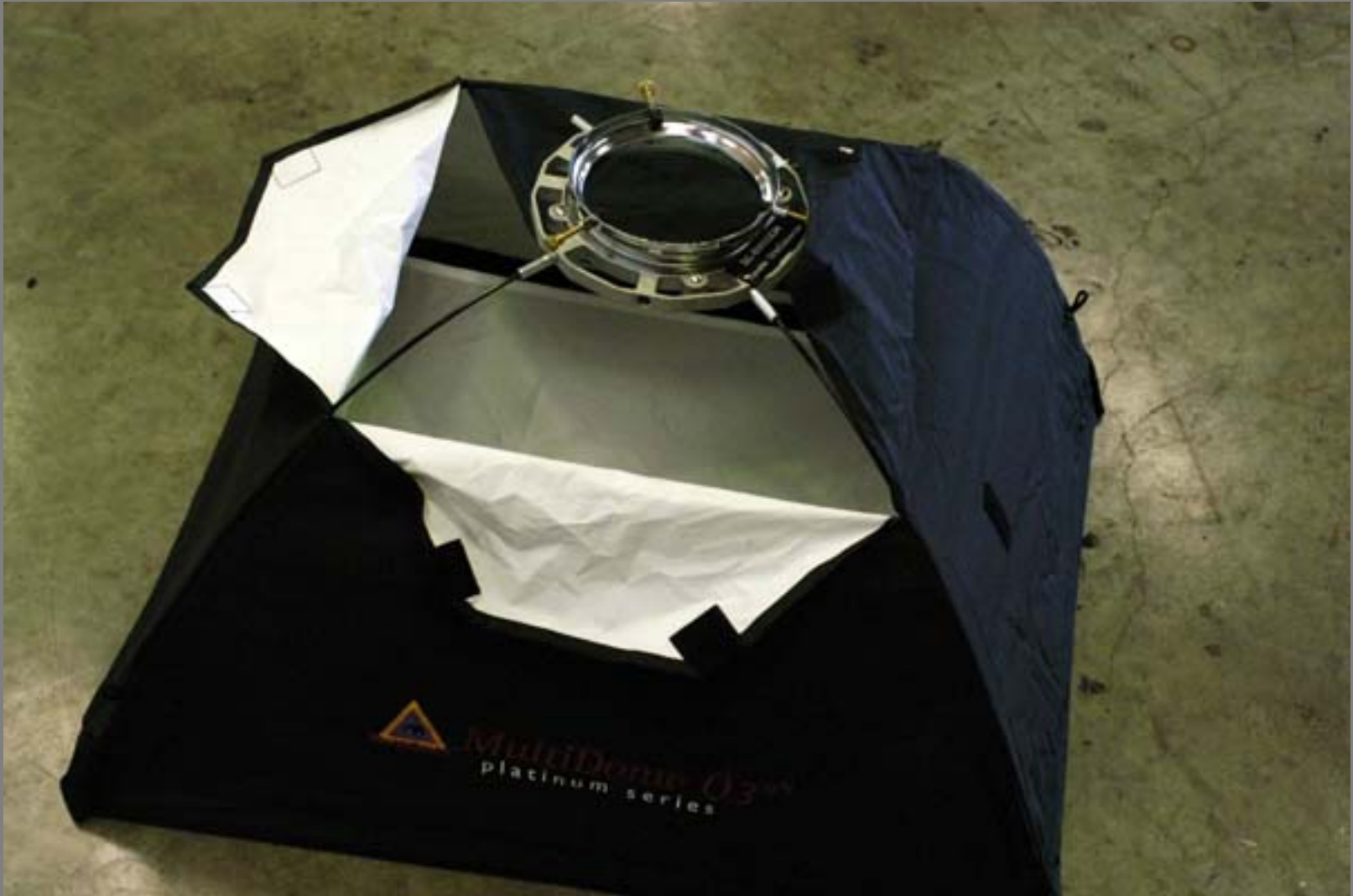
STROBE HEAD WITH UMBRELLA ATTACHED:



STROBE HEAD WITH SOFT BOX ATTACHED:



ASSEMBLING A SOFT BOX:



INSERTING SOFT BOX FRAME INTO THE SPEED RING

ASSEMBLING A SOFT BOX:



✦ Insert the soft box frame poles into the speed ring.

✦ Look for guidelines on the speed ring to facilitate this process.

ASSEMBLING A SOFT BOX:



PLACE THE SOFT BOX ONTO
THE STROBE HEAD

ASSEMBLING A SOFT BOX:



- ✦ Tighten the locking screws on the speed ring to fit the strobe head.
- ✦ The ring must attach securely over metal lip.

GRID SET AND GRID SET FRAME:



✦ Grids focus the light in varying degrees; use the tabs to insert and remove them from the grid holders. Take care as they can become very hot. Shut off the modeling light briefly before handling them.

ONLINE RESOURCE

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dynalite.com:

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