



**UNI400<sub>JR</sub>**

**Instruction Manual**

 Dyna-Lite® The Flash of Inspiration

# ▼ Congratulations

...on your Dyna-Lite Uni400JR purchase.

The Uni400JR has an exclusive new feature that makes it totally unique:

The Uni400JR can be powered from either an AC power source or from a battery pack. Your Uni400JR comes equipped with an outlet on the rear control panel which can be connected to a conventional AC source, or it can be connected to our Jackrabbit High Voltage DC Battery Pack.\* With a freshly charged pack you can achieve 75 full power flashes, 150 half power flashes, and 300 quarter power flashes.

In addition, the Uni400JR combines traditional Dyna-Lite compactness, performance and reliability.

It weighs just 3.6 pounds and packs a 400 watt/second wallop into a 1.4-second recycle time with AC power. It's built with the same proven circuitry that's in the Dyna-Lite "M" series. Its flash tube has the same 5,400°K color temperature as other Dyna-Lite flash heads so you can mix the Uni400JR with Dyna-Lite pack systems, even in critical color work.

The Uni400JR has all the professional features you need to make your job easier:

- Full, half, quarter, and eighth power settings in 1/3 stop steps
- Virtually no color shift, regardless of output setting
- Full tracking quartz modeling light - 3,200°K color temperature and 2,000 hour rated
- Slave eye lets you trigger from another flash and most infrared transmitters
- Detachable power cord for easier packing
- Modeling lamp is user replaceable
- Umbrella reflector and metal protective cover included
- Complete system of accessory reflectors available
- Fast turn-around service (if you ever need it)

Your Uni400JR was created and produced in the U.S.A. by Dyna-Lite - the company that has been putting quality light into a convenient package for more than twenty-five years.

Unpack the Uni400JR from its box and check to be sure that all the accessories are included.

- 1 - Uni400JR Monolight w/ metal protective cover
- 1 - UNI-GR7 7" Umbrella/Grid Reflector
- 1 - 0205 AC Power Cord
- 1 - 0315X 15' Sync Cord
- 1 - Owner's Manual w/ 2 Year Warranty
- 1 - JR-UNI Cable (with kit only)

\* Number of total flashes per charge varies according to charging and maintenance of battery.



## Important Safeguards

- To avoid shock hazard, do not disassemble this flash unit. Incorrect reassembly could cause an electrical shock hazard when the flash is subsequently used. Take your Uni400jr to a Dyna-Lite dealer or authorized service center when service is required.
- Use a properly grounded AC outlet. Failure to do so could result in an electrical shock hazard.
- Do not operate this flash unit with a damaged power cord, or if dropped or damaged, until the flash has been examined by an authorized service person.
- Do not block the cooling holes surrounding the housing. Air circulation through these holes is essential to proper cooling of the flash. Never insert any object into these holes.
- Do not allow the power cord to touch hot surfaces.
- Do not get the flash unit wet.
- Do not touch the modeling lamp with your fingers. If the modeling lamp needs to be removed, wait until it is cool and then use a piece of tissue paper to prevent the oils from your skin getting onto the surface of the lamp.
- Never touch the flash tube while the flash is plugged in. Do not touch the flash tube with your fingers.
- Periodically check to ensure that flash tube is securely seated in flash tube mounting holes. Push gently inward on flash tube to secure.
- If the flash tube needs to be replaced, contact Dyna-Lite or your local authorized service station.
- Let the flash cool completely before putting away. Always use the head cover to protect the flash tube and modeling lamp.
- Do not store the flash in hot or humid places.
- If the Uni400jr is not used for a month or more, allow it to idle at full power for approximately 24 hours to keep capacitors in optimum condition.

***Do not operate unit from AC while the DC power cable is still plugged in!  
(and vice versa)***

## Set-Up

**Note: Read thoroughly — AC and DC set-ups differ.**

### **AC and DC OPERATION:**

#### **1. Remove the head cover.**

Grasp the Uni400JR in one hand and the head cover in the other. With the head cover facing you, twist the head cover in a clockwise direction and pull off.

#### **2. Mount the flash.**

Loosen the universal stand mount knob and place the Uni400JR on your light stand. Tighten the knob. Note that there are two light stand holes on the mount. One is for light stands having a shaft diameter of 5/8" and the other for stands having a shaft diameter of 1/2" or smaller. Move the knob to the appropriate hole on either side.

#### **3. Adjust friction control.**

Use the ratchet handle (which can be attached on either side for left or right hand use) to establish the correct tilt tension. More tension will be required when umbrella or soft box light controls are used. Adjust tension so that you can tilt the Uni400JR with one hand. Adjusting the flash angle does not change the friction setting once it is established with the ratchet handle.

#### **4. Attach the reflector.**

Line up the three bayonet slots on the reflector to the three interior studs on the accessory mounting plate. Lock reflector into place by rotating the reflector counter clockwise until you feel a tactile click.

#### **5. Power up.**

##### **AC OPERATION ONLY**

First turn the power switch to the off position. Then plug the power cord into the socket on the Uni400JR control panel. Finally, plug the power cord into a properly grounded AC outlet. Do not use the Uni400JR without proper grounding, and never defeat the purpose of the grounding pin on the power cord plug. When removing the power cord from the flash unit, always grasp the plug. Never pull the plug out by the cable.

##### **DC (JACKRABBIT) OPERATION ONLY**

Make sure the Uni400JR is completely unplugged from your AC power source, and then plug the locking end of the JR-UNI cable into the rear DC outlet on the monolight by lining up the white lines on the plug to the connector. Attach the other end of the connector to the "A" outlet of the Jackrabbit pack. As a safety precaution, the "B" outlet will not fire with the Uni400JR to avoid battery overload. (Note: The JR-UNI cable is available separately from your Dyna-Lite dealer. It is included in the UNIJR-PS1 Monolight Kit and the UNIJR-LW2 Package System.)

Turn the Jackrabbit pack on and wait approximately 6 seconds for the Jackrabbit ready light to appear.

(Note: The ON/OFF switch on the Uni400JR does not need to be turned on to be working, and the ready light and modeling light features do not operate in DC mode.)



## Control Panel



## Lighting Controls

Your keys to light control simplicity are the Uni400JR's secure 3-point reflector attachment system and its integral accessory mounting ring. All light control accessories fit one of these two systems. In addition, since the integral accessory mounting ring is the same size as that found on all Dyna-Lite flash heads, a wide variety of existing lighting controls works beautifully with the Uni400JR.

- **Reflectors**

In addition to the 7" umbrella reflector (Uni-GR7) supplied there are optional reflectors available. A 9" reflector (Uni-GR9) has a beam spread of 45 degrees, which will produce more intense illumination over a smaller field than that covered by the umbrella reflector. There is also an 18" soft white pan reflector (40-SW) which is superbly suited to the "new" mood in studio lighting with an edge. An optional silk diffuser (40-SILK) is available for the 18" reflector.

- **Umbrellas**

The Uni400JR comes equipped with a 7" umbrella reflector which produces a highly efficient beam spread of 65° for umbrella applications. Dyna-Lite 44-01B (40"), 44-02B (45") and 44-03B (54") Reflective White/Removable Black Back Umbrellas are designed for both reflective and "shoot-through" lighting techniques. Adjust for different angles of coverage by simply changing the distance between the flash head and the umbrella. Use the Uni400JR's modeling light to make this adjustment. For maximum softness, make sure the light beam just fills the full diameter of the umbrella. Add the black backing to prevent light from being transmitted through the umbrella onto walls or other objects which might cause an undesirable color cast on the subject.

- **Grid Spots**

The 7" umbrella reflector that was included with your Uni400JR accepts 7" grid spots directly. No adapter is required. A set of four 7" grid spots is offered by Dyna-Lite (33-08B) covering 10°, 20°, 30°, and 40°. There is also a similar set of 9" grid spots (40-08B) which fit directly on the 9" reflector.

- **Snoot**

The Dyna-Lite Snoot (40-SN7) fits directly on the 7" reflector supplied with your Uni400JR.

- **Soft Boxes**

All popular soft boxes fit the Uni400JR, using "speed rings" provided by the soft box manufacturer. These are the same rings which are used on all Dyna-Lite flash heads. The Uni400JR is used without a reflector for soft box applications. The special reflective surface beneath the flash tube assures that soft boxes will be evenly illuminated. Take care installing your Uni400JR in a soft box, since the flash tube and the modeling lamp are exposed when no reflector is installed. *When installing a speed ring, be sure its set screws do not enter or block the Uni400JR's ventilation holes.*

- **Lowel® Light Controls**

Two Lowel Flexi-clips are provided on the stand mount to attach Lowel Flexi-shafts along with Tota-flags and Tota-flectors. These light controls, which many photographers already own, provide an excellent means for controlling and directing the Uni400JR's light beam.

- **Bare Bulb**

Your Uni400JR may be used without any reflector for bare bulb lighting, a technique especially useful for "hidden" lighting in architectural photography.

## Maintenance

### • **Fuse replacement**

The flash and modeling light are protected by a single Power Fuse, located in a compartment just below the power cord socket. To replace the Power Fuse, first remove the power cord from the power cord socket (or remove the JR-UNI Cable if operating in DC mode). Then use a small screwdriver to pry open the fuse compartment. There is a small slot at the top of the compartment. Insert the screwdriver and gently twist. The fuse holder will pop out. The fuse holder has two fuses. The in-service fuse is the one that is very loosely held in the holder. The spare fuse is the one fully enclosed in the rectangular compartment closest to the fuse holder's outside face. Remove the spare fuse from the holder by pushing on it with the tip of a pencil or ball point pen. If you wish to put another spare fuse in the spare fuse compartment, use only an 8 amp 125 volt, GMA type miniature fast-acting fuse. Reinstall the reloaded fuse holder into the Uni400JR, making certain to orient the fuse holder with the tab facing upward (12 o'clock position).

**IMPORTANT!** If you replace a fuse and it immediately blows again, or if you replace a fuse and your Uni400JR still does not operate, please have your flash serviced at an authorized Dyna-Lite service center.

### • **Modeling lamp replacement**

Quartz halogen lamps operate at very high temperatures. When replacing the modeling lamp, first be sure to allow an adequate length of time for cool-down if you have been using your flash. To remove the old lamp, push the lamp inward and twist counter clockwise. Replace with Dyna-Lite part #0513. The replacement lamp must be rated at 100 watts at 120 volts AC. When installing a new modeling lamp, use the lamp wrapper to hold the lamp for installation. Align the pins on the side of the lamp with the slots in the socket. Press inward and twist 1/4 turn clockwise. Do not force.

**IMPORTANT!** Never touch the surface of a quartz halogen lamp with your bare fingers. Oils in your skin - when deposited on the surface of the lamp - will significantly shorten lamp life.

# Specifications

	AC	DC
Total Power, watt/seconds	400	320 (1/3 f-stop down from AC)
Recycle Time To Full Power, seconds	1.4	6.5 (Avg.)
Average Power Consumption, amps	8 (10 with modeling light on)	N/A
Flash Consistency, f-stop	1/10	1/10
Flash Duration, seconds		<u>Flashes per charge</u>
Full Power	1/675	1/675      75
1/2 Power	1/1100	1/1100     150
1/4 Power	1/1800	1/1800     275
1/8 Power	1/2200	N/A
Sync Circuit Voltage, volts	10	10
Dimensions		
Diameter (not including stand mount)	5" (128 mm)	Same
Length (not including head cover)	8" (178 mm)	Same
Weight (not including cables or reflector)	3.6 lbs (7.94 kg)	Same
Flash Tube Rating, watt/seconds	500	Same
Color Temperature, °K	5,400	Same
Modeling Lamp, watts	100	N/A
Color Temperature, °K	3,200	N/A
Life Expectancy, hours	2,000	N/A

## Accessories

### Accessories Supplied With Uni400JR

F32079	Head Cover
UNI-GR7	7" Umbrella /Grid Reflector
0205	Power Cord (15 ft.)
0315X	Sync Cord (15 ft.)
C47013	Spare Power Fuse

### Optional Accessories

UNI-GR9	9" Reflector
40-SW	18" Soft White Reflector
44-01B	40" Umbrella - White/Black Back
44-02B	45" Umbrella - White/Black Back
44-03B	54" Umbrella - White/Black Back
33-08B	7" Grid Spot Set
40-08B	9" Grid Spot Set
40-06B7	Barn Doors for 7" Reflector
40-06B9	Barn Doors for 9" Reflector
002570	7" Magnetic Gel Holder - for UNI-GR7
002571	9" Magnetic Gel Holder - for UNI-GR7
40-SN7	Snoot

### Replacement Parts

0513	Modeling Lamp
P60012	Flash Tube Assembly
C47013	Miniature Fast Acting Power Fuse
	<b>8AMP 125V GMA</b>

Jackrabbit	High Voltage/DC Battery Pack
JR-CH120	Standard 120v AC Bi-voltage Charger
JR-CAR	12v DC Vehicle Charger
JR-CH500	Dual Voltage Charger/Discharger



## ▼ The AC/DC Powered Uni400JR and Jackrabbit Pack

Regardless of what kind of photography you do, the Uni400JR and the Jackrabbit battery pack open up whole new opportunities for studio and location photography.

### • The UNIJR-PS1 Kit

Save money with this basic kit. Includes everything you need to operate in the studio or on the road: a Uni400JR monolight with 7" umbrella grid reflector and metal protective cover, AC power cord, sync cable, Jackrabbit pack, 120v dual-voltage charger, and connecting cable.



### • The UNIJR-LW2 Package System

For more power and versatility, this system has it all. Two Uni400JR monolights with 7" umbrella grid reflectors and metal protective covers, two AC power cables, two sync cables, two Jackrabbit packs with connecting cables and two 120v dual-voltage chargers, two 7' retracting lightstands and 40" umbrellas, and a rugged lightweight carrying case.



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