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Nishika

TWIN LIGHT 3000

VARIABLE-ANGLE
ELECTRONIC FLASH



OWNER'S MANUAL

KEY TO FLASH PARTS

1. Bounce Flash Head
2. Direct Flash Head
3. Hot Shoe Contact



INTRODUCTION

Your Nishika Twin Light 3000 Electronic Flash has been designed for use with the Nishika N8000 3-D camera, as well as with most other 35mm cameras. The Nishika 3000 will allow you to take photos in most situations where there is insufficient ambient light.

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HOW TO USE THIS MANUAL

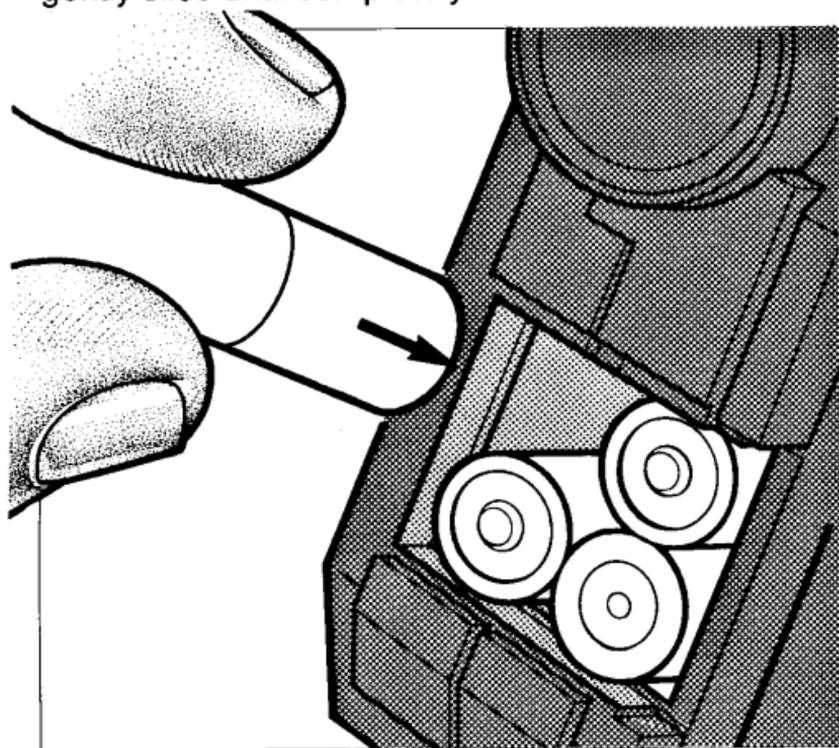
Open the front and back flaps of this booklet to reveal the Key to Flash Parts pages. Keep these pages opened out as you read through the manual. Using your manual in this way will provide a handy reference to the parts of the flash mentioned in the instructions.

INSTALLING THE BATTERIES

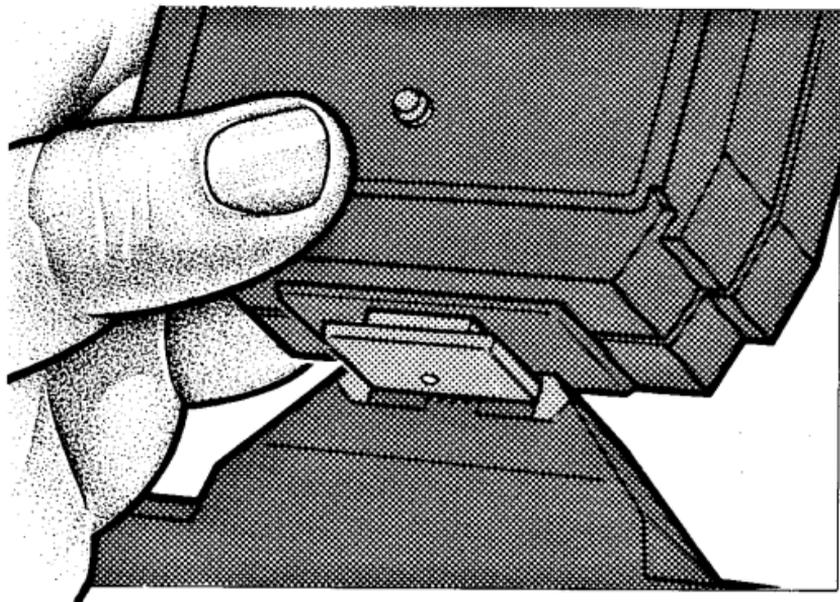
Your Nishika Twin Light 3000 Flash uses four AA batteries. To insert the batteries, gently slide the battery compartment cover (#7) in the direction of the arrow and remove the cover.

Insert the four AA batteries into the flash unit as shown below. A diagram inside the battery compartment shows the correct positive (+) and negative (-) positioning of the batteries.

To close the battery compartment, fit the battery compartment cover back into its tracks and gently slide until completely closed.



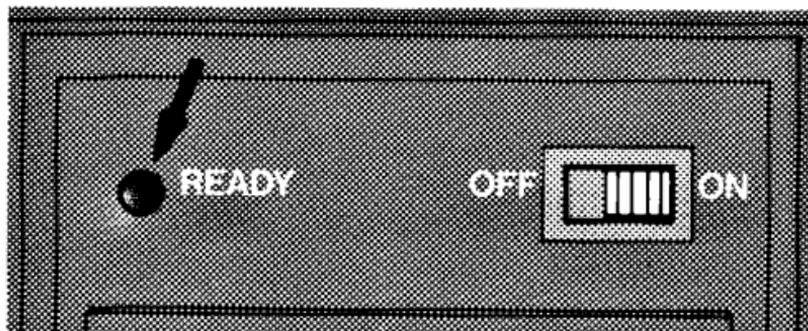
USING THE NISHIKA 3000 FLASH



Make sure the ON/OFF switch (#5) is in the OFF position. Attach the flash to the camera by sliding the hot shoe contact (#3) of the flash forward into the hot shoe of the camera until it stops. This insures proper contact.

Move the ON/OFF switch to the ON position. When turning on the Nishika Twin Light 3000 Flash, you will hear a high-pitched sound. This is normal and means your flash is charging up to a flash-ready state.

Your flash takes a few seconds to charge. **DO NOT TAKE A PICTURE UNLESS THE READY LAMP (#6) IS LIT.**



When the flash is fully charged and ready to use, the ready lamp on the rear of the Nishika Twin Light 3000 Flash will light up. To test the flash, simply depress the test button (#8).

Turn off the Nishika Twin Light 3000 Flash when you are finished using it, or during long periods between flash pictures. This will help to extend the life of your batteries.

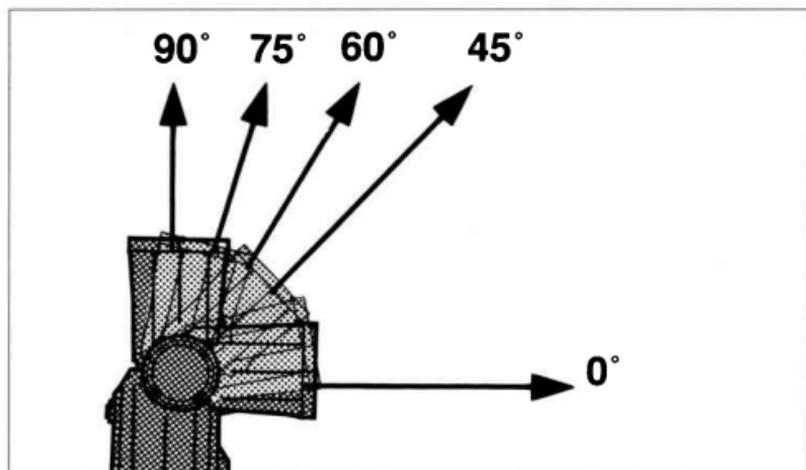
Taking Pictures Indoors

Your Nishika Twin Light 3000 Flash has a direct flash head (#2) and a bounce flash head (#1), allowing you to direct the optimal lighting toward and behind your subject.

By aiming the bounce flash head upward, its light is bounced off the ceiling, providing a soft, even illumination on and behind your subject.

The direct flash head provides a less powerful direct beam of light to fill in shadows that may result from ambient light and from the bounce flash.

You can easily select the best flash-to-subject angle (0°, 45°, 60°, 75° or 90°) by looking at the bounce angle scale (#4). When using the



flash with the Nishika N8000 3-D Camera, refer to the column for ISO/ASA 100 film on the back of the flash unit. Alternatively, as an easy method of selecting the best bounce angle, simply point the bounce flash head toward the ceiling directly above your subject to provide both direct and bounce (reflected) illumination.

Bounce lighting works best in rooms with 8 ft. to 10 ft. ceilings of neutral or light colors, to avoid reflecting unwanted tones onto your subject.

Taking Pictures Outdoors

Using the Nishika 3000 Twin Light Flash outdoors reduces annoying shadows cast by trees, buildings, etc., and gives your photographs better overall lighting when subjects are backlit or composed against a light background. When using the Nishika 3000 outdoors, the bounce flash head should be set at 0° to aim light directly at your subject.

CARE AND STORAGE OF YOUR FLASH

Your Nishika Twin Light 3000 Flash has been engineered to require no maintenance. To ensure its best performance, however, we suggest the following:

Check the batteries frequently.

Your flash should recycle in 15 seconds or less. If the recycle time (the time it takes for the ready light to come on between flashes) exceeds 30 seconds, a new set of batteries should be used, or the nickel-cadmium batteries should be recharged.

NOTE: If you have not used your flash unit for some time, the recycle times for the first few flashes will be longer than usual. If you are using nickel-cadmium batteries, it is advisable to recharge them fully every month regardless of how often the flash has been used.

At times, even the best of batteries leak some chemical material through the jacket, leaving a whitish powder on the surface. You should inspect your batteries periodically. If leakage does occur, replace the batteries after first cleaning the internal contacts in the battery chamber with a pencil eraser or cotton swab dipped in alcohol or cleaning fluid.

Store the flash without batteries.

If you do not intend to use your Nishika Twin Light 3000 for a month or more, it is best to remove the batteries and store them separately. Otherwise, the batteries may corrode, causing damage to the electronic circuitry.

Keep the flash lenses clean.

If the lenses of the Nishika 3000 become dirty, clean them by rubbing gently with a lens cleaning tissue moistened with a drop of lens cleaner. To clean the rest of the unit, use a small amount of lens cleaner and lens tissue, or a slightly moist cloth. Be sure to dry the unit thoroughly immediately after cleaning. NEVER IMMERSER THE TWIN LIGHT 3000 FLASH IN LIQUID OR USE EXCESS LIQUID TO CLEAN IT.

Never attempt to service the unit yourself.

If the Twin Light 3000 Flash fails to operate, the most likely cause is weak batteries. If after replacing the batteries the flash still does not operate, check the battery contacts in the unit and hot shoe contacts between the Twin Light 3000 Flash and the camera. In the unlikely event that the Nishika 3000 Flash still does not work, return it to the address listed in the Customer Service section of this manual.

IMPORTANT SAFEGUARDS

When using any electric equipment, basic safety precautions should always be followed:

1. **To avoid electric shock hazards, do not disassemble this unit.**

If it fails, return it to Nishika Corporation. Incorrect reassembly could cause an electric shock hazard when the flash is used again.

2. **Do not immerse the flash in water or other liquids.**
3. **Do not use the flash if it has been dropped or damaged until it has been examined by a qualified service person.**
4. **Do not leave the flash unattended while in use.**

Close supervision is advisable when used by or near children.

SPECIFICATIONS

MODEL #3000 3-D CAMERA FLASH

Guide Number: (ISO/ASA 100, m.)	Main	24
	Auxiliary	12
Color Temperature:	5,600°K (approx.)	
Flash Duration:	1/5,000 second (approx.)	
Recycling Time:	Alkaline	6 seconds (approx.)
	Carbon-zinc	8 seconds (approx.)
Number of Flashes:	Alkaline	75 (approx.)
	Carbon-zinc	50 (approx.)
Angle of Coverage:	Vertical	54°
	Horizontal	72°
Bounce Angles:	0°-90° (Click stops: 0°, 45°, 60°, 75° and 90°)	
Power Source:	Four 1.5V AA batteries	
Size:	4.2" (H) x 3.0" (W) x 3.4" (D) at 90° bounce angle	
Weight (net):	Approximately 6 ounces (not including batteries)	