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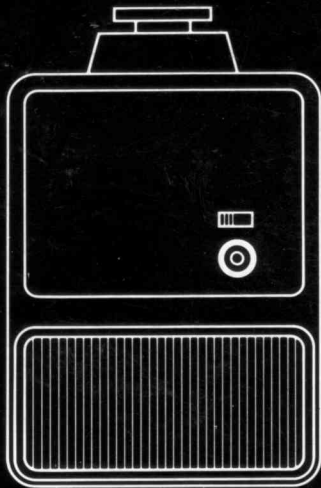
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2000



Vivitar



## DESCRIPTION OF CONTROLS

1. Battery Compartment Cover
2. Flash Lens
3. Light Sensor
4. Manual/Automatic Operation Switch
5. Hot Shoe Mounting Foot
6. Flash Test Button
7. PC Cord
8. On/Off Power Switch
9. Flash Ready Light
10. f/Stop Calculator Scale



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## YOUR NEW FLASH

This new Vivitar 2000 Electronic Flash combines ease of use with exceptional range in a very compact package. It is a truly universal unit, offering full-power manual or battery-saving automatic flash operation both on cameras with built-in hot shoe or those with only "X" contact shutter synchronization.

## HOW TO USE IT

### 1. INSTALL THE BATTERIES

Unlock the Battery Compartment Door (1) by sliding it slightly in the direction of the arrow. Lift the bottom of the door upwards to the stop. Install four fresh, size AA alkaline batteries with their + and — ends oriented as shown inside

the compartment. Lower the cover down over the batteries and press them in as you slide the cover back into the unit until it locks in place.

## 2. MOUNT THE FLASH ON THE CAMERA

**IMPORTANT:**

*When attaching or removing the flash or the PC cord from the camera, **always** have the flash ON/OFF Switch in the OFF position to prevent the possibility of damage to your camera.*

### Cameras with Hot Shoe:

Slide the Mounting Foot (5) of the flash all the way into the camera's hot shoe. Set the camera to the correct shutter speed for electronic flash synchronization (see your camera instruction manual). Make sure the PC Cord is plugged into its storage socket.

### Cameras having Accessory Shoe without Flash Contact:

Slide the Mounting Foot of the unit into the camera's accessory shoe. Pull the connector end of the flash PC Cord (7) out from its storage position in the back of the flash and plug it into the camera's "X" synchronization socket. Set the camera to the correct shutter speed for electronic flash synchronization. (See your camera instruction manual.)

If your camera has an "X" sync connection but no accessory mounting shoe, you will need to obtain a flash mounting bracket from your

photo dealer. Holding the flash with one hand and the camera with the other is *not* recommended.

## 3. ENERGIZE UNIT

To energize the unit, slide the flash ON/OFF Switch (8) to the ON position. The Ready Light (9) will glow when the unit is ready.

The energy from the batteries is accumulated in a capacitor which then provides the high-power burst of light for the flash. When the flash unit is new or has been idle for about a month, the capacitor can lose some of its storage ability and needs to be "formed".

### Forming the Capacitor

- Switch the flash on.
- Wait for the Ready Light to come on and let it glow for 10 seconds.
- Fire the flash by pressing the Test Button (6).
- Repeat b) and c) 4 more times. The capacitor is now "formed" and you are ready to take pictures.

## 4. SELECT DESIRED OPERATING MODE

Use Switch (4) to select automatic or manual operation.

**Automatic Operation:** The camera lens is set to a single f/stop depending on the film speed, as explained in Step 5 below. The flash automatically adjusts the light output to provide correct exposure for subjects at distances between 3.5 and 15 feet (1 to 4.5 meters).

**Manual Operation:** The flash always puts out a full-power burst of light. In order to obtain a proper exposure, the lens f/stop must be set depending on the distance to the subject. Manual flash must be used if the subject is more than 15 feet (4.5 meters) away, up to the maximum range of 30 feet (9 meters).

## 5. DETERMINE CORRECT LENS f/STOP SETTING

On the f/Stop Calculator Scale (10) find the ISO or DIN number corresponding to the speed of the film in your camera. In the row to the right of this are seven f/stop numbers.

**For Automatic Operation:** Set your camera lens to the f/stop shown in the *white* column. For example: film speed ISO 200, subject between 3.5 and 15 feet away (1 to 4.5 meters); set lens to f/5.6. For subjects beyond 15 feet, use manual operation.

**For Manual Operation:** Determine the distance to the subject by focusing the lens and reading the distance off the lens scale. Find this distance on the feet or meters scale and read down to the line corresponding to your film speed. Set your lens to the f/stop shown in that block. For example: subject 30 feet (9 meters) away, film speed ISO 100; set lens to f/2.

## 6. SOME IMPORTANT TIPS

Replace the batteries when the Ready Light

fails to come on within 30 seconds after a flash. Remove the batteries whenever you do not plan to use the flash for a few weeks. This will avoid any possible corrosion problems.

## SPECIFICATIONS

Guide Number (ISO 100)	ISO/ft	DIN/m
Standard (50mm)	60	18

### **Angle of Coverage:**

Covers 50mm camera lens

**Power Source:** 4 AA alkaline batteries

**Recycle Time, Average:** 4 sec.

**Number of Flashes, Average:** 500

**Automatic f/Stop and Corresponding Auto Exposure Flash Range with ISO 100 Film:**  
f/4: 3.5—15 ft (1—4.5 m)

### **Flash Duration:**

Manual: 1/2,000 sec.

Auto: 1/2,000—1/50,000 sec.

**Flash Ready Light:** Snap-on neon tube

**Calculator Scale:** ISO 64, 100, 200, 400, 1000, 1600

**Flash Test Button:** Built-in

**PC Cord:** Built-in

### **Accessories:**

Optional: Wide Angle Panel & Color Filter Kit (35mm camera lens coverage)

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Specifications subject to change without notice.