

# Vivitar Corporation

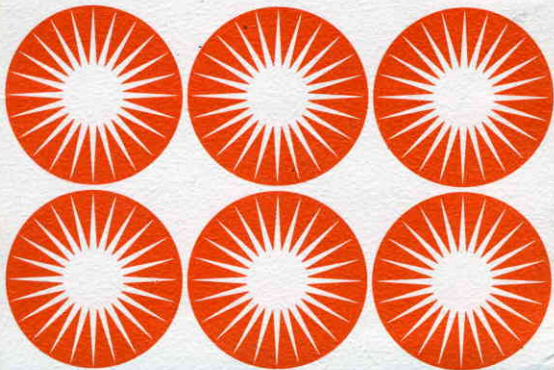
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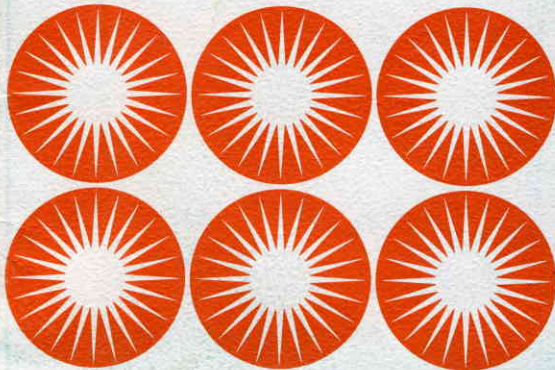


# Vivitar®

**automatic electronic flash**

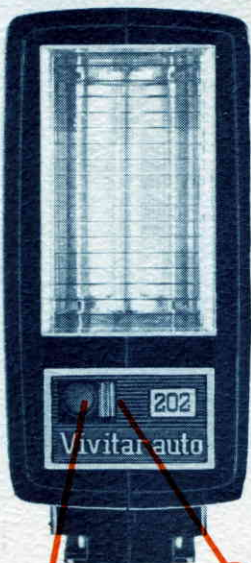
## Model 202

Owner's Manual



**CONGRATULATIONS AND WELCOME** to the ever-increasing number of photographers now enjoying Vivitar electronic flash. We know that you will enjoy your new Vivitar Model 202 and we wish you many years of picture taking fun.

## Description of Parts



9 Sensor

8 Auto/Manual Control Switch



7 PC Synch. Cord Socket

6 Mounting Shoe



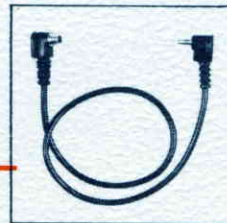
1 Battery Compartment Cover

2 Calculator Dial

3 Ready Light/ Open Flash Button

4 On-Off Switch

5 Detachable PC Synch. Cord



## **First, insert the batteries**

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**1**—Remove the Battery Compartment Cover ① by applying upward pressure to the center of the Calculator Dial ② and sliding the cover away from the body of the unit.

**2**—Insert four 1.5v AA Alkaline batteries in the compartment noting correct polarity. Correct battery positioning is indicated in the battery compartment.

*Caution:* Beware of bargains! Best results and performance to specifications are based on the use of 1.5v AA *Alkaline* cells.

**3**—To replace the cover, slide the lip of the Battery Compartment Cover into the back of the unit and press down on the Calculator Dial until the cover snaps securely in place.

*Note:* The batteries should be replaced when the recycle time exceeds thirty seconds or when no sound can be heard when the unit is turned on.

## **Form the capacitor**

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When the flash is new or when it has not been used for a long period of time, the capacitor may lose some of its ability to store electricity. To re-build or "reform" the capacitor, insert the batteries in the flash and slide the On-Off Switch ④ to the RED (On) position. Fire the flash by pressing the Ready Light/Open Flash Button ③. Repeat this about 5 times allowing the Ready Light to glow 5 to 10 seconds after each flash.

## **Attach your flash to the camera**

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**1**—Insert the Mounting Shoe ⑥ into the accessory clip on the camera.

**2**—If your camera is equipped with a Hot Shoe, it is not necessary to use the detachable PC Cord. Once attached to the camera, the flash is fully synchronized to the camera through the contacts in the shoe.



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**3**—If your camera is not equipped with a Hot Shoe, plug the pointed end of the PC Sych. Cord (5) into the Socket (7) on the flash. Plug the other end of the cord into the flash terminal on the camera using the terminal marked "X". If an "X" terminal is not provided, set the camera synchronization switch to "X". (Refer to your camera instructions for specific information regarding your camera's flash synchronization.)

## **Get ready to shoot . . . automatically**

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**1**—Set the Auto/Manual Control Switch (8) for automatic operation. The Sensor (9) should be visible from the front of the flash unit.

**2**—Set the camera shutter speed to 1/60, 1/30 or "X"—

*Note:* You should refer to your camera instructions for the proper speed setting for electronic flash.

**3**—Set the correct ASA or DIN film speed on the Calculator Dial (2). The ASA or DIN film speed can be found in the data sheet that comes packed with your film.

*Example:* For Kodachrome II, set the ASA (DIN) mark to 25 (15). For film speeds not engraved on the Calculator Dial, estimate the ASA or DIN position on the dial and adjust the dial accordingly.

**4**—Read the f-stop indicated opposite the BLUE triangle on the Calculator Dial. Set your lens to this f-stop.

*Note:* Correct auto f-stop settings for most popular film speeds are listed in the Specifications.

**5**—Slide the On-Off Switch (4) to the RED (On) position. Focus camera. Take the picture when the Ready Light glows.

Your flash unit will automatically give you a perfect exposure of any subject between 3 and 11 feet from the flash without further f-stop adjustments. ➡

## Manual operation

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When you wish to use your Vivitar 202 in the manual mode (for example, pictures beyond the auto flash range, fill-in-flash, etc.) —

- 1**—Set the Auto/Manual Control Switch ⑧ to the manual ("M") position.
- 2**—Set the correct ASA or DIN film speed on the Calculator Dial ②
- 3**—Focus your camera and estimate the distance from the flash to the subject. You can usually do this "by eye" or you can refer to the distance indicated on the camera lens barrel after focusing.
- 4**—Read the f-stop indicated opposite the distance scale on the Calculator Dial and set this f-stop on your camera lens.

*Example:* If you are 7 feet from your subject and you are using Kodachrome II (ASA 25), set the lens f-stop to f4.

## After you're finished shooting

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**Batteries**—If you're not going to use your flash unit for several weeks or if the batteries appear weak, *remove the batteries*. This is a "just-in-case" precaution in the event the batteries leak.

**Let It Glow!**—Do not discharge (flash) your unit before putting it away. Just turn the unit off. *It's better to leave the Ready Light glowing*. The next time you use it, your flash will "reform" faster and this procedure will ensure the long life of your equipment.

# Specifications

## Manual Operation

Guide numbers (ASA-Feet):

ASA film speed	25	64	80	100	125	160	200	400	800
Flash Guide No.	30	45	55	60	65	75	85	120	170

Guide numbers (DIN-Meters):

DIN film speed	15	19	20	21	22	23	24	27	30
Flash Guide No.	9	14	16	18	19	22	25	36	51

## Automatic Operation

Auto f-stop settings:

Film Speeds: ASA	25	64	80	100	125	160	200	400	800
DIN	15	19	20	21	22	23	24	27	30
Auto f-stop	2.8	4	4.5	5.6	6.3	7	8	11	16

Automatic operating range: 3 ft. to 11 ft.  
(.9m to 3.4m)

Auto Sensor Measuring Angle: 15°

## General

BCPS (Beam Candle Power Seconds): 700

Recycle Time: 4 seconds, approx.; (Recycle times are based on fully charged batteries. Recycling takes longer as the batteries drain.)

Flash duration (approx.): 1/1000 second (manual);  
1/1000 to 1/30,000 second (Automatic)

Color temperature: 6000° Kelvin

Angle of illumination(s): 55° horizontal, 55° vertical

Operating positions: Vertical

Power sources: 4 AA 1.5v Alkaline batteries

Flashes per set of batteries: 400+

Camera/Electronic Flash synchronization  
connection(s): Hot Shoe, PC Synch. Cord

Weight with batteries: 9 oz. (257 gr.)

Dimensions: 1<sup>3</sup>/<sub>8</sub>" x 2<sup>5</sup>/<sub>8</sub>" x 3<sup>1</sup>/<sub>8</sub>"  
(35mm x 67mm x 79mm)

Accessories included: Detachable PC Synch. Cord