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Vivitar

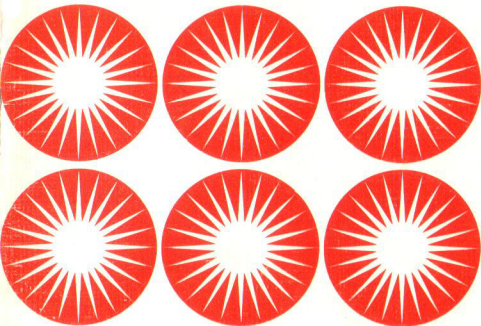
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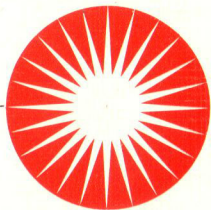
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Vivitar[®] automatic electronic flash

Model 200

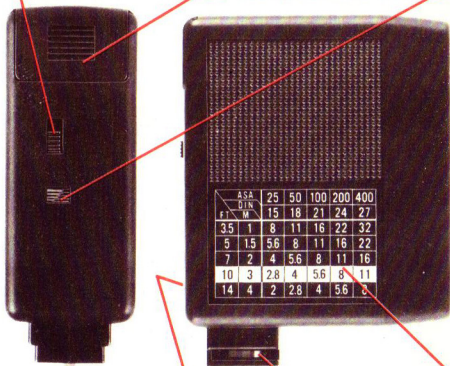


- Automatic exposure control from 2 to 10 feet
- Accurate Kodachrome II (ASA 25) guide number of 28
- Over 200 flashes from one 9V Alkaline battery
- Recycles in 3½ seconds with fresh battery
- Built-in Hot Shoe

Owner's Manual

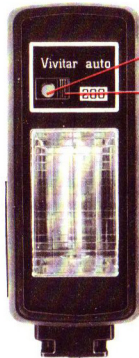
CONGRATULATIONS AND WELCOME to the ever-increasing number of photographers now enjoying Vivitar electronic flash. We thank you for selecting this product and we wish you many years of picture-taking enjoyment.

- 1 'On-Off' Switch 2 Battery Compartment Cover 3 Ready Light



Description of Parts

- 4 Sensor
5 Auto/Manual Control Switch
6 Detachable PC Cord
(Optional accessory, not included)

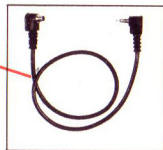


PC Cord Socket
(on opposite side) 9

8 Mounting Shoe

7 Exposure Guide

ASA		25	50	100	200	400	
DIN		15	18	21	24	27	
F/	M	1	8	11	16	22	32
	5	15	5.6	8	11	16	22
7	2	4	5.6	8	11	16	
10	3	2.8	4	5.6	8	11	
14	4	2	2.8	4	5.6	8	



Inserting the battery

1—Remove the Battery Compartment Cover (2) by pressing the center of the cover and at the same time sliding it away from the body of the unit.

2—Insert 1 9V Alkaline battery making sure it is positioned according to the diagram inside the battery compartment.

Caution: Beware of bargains! Best results and performance to specifications are based on the use of a 9V *Alkaline* battery.

3—Replace cover, aligning the edges of the cover with the slots in the body of the flash unit. Press down on the battery and slide the cover towards the bottom of the flash until it is securely in place.

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

Attaching the Flash to the camera

1—Insert the Mounting Shoe (8) into the accessory shoe on the camera.

2—If your camera is equipped with a hot shoe, the flash is fully synchronized to the camera through the contacts in the shoe.

3—If your camera is not equipped with a hot shoe, you will require a Detachable Accessory PC Cord (6) available from your local Vivitar electronic flash dealer. Once the flash is attached to your camera, plug the pointed end of the PC Cord into the Socket (9) on the flash. Plug the other end of the cord into the 'X' terminal on the camera. (Refer to your camera instructions for specific information regarding your camera's flash synchronization.)

Get ready to shoot — automatically

1—Set the Auto/Manual Control Switch (5)

for automatic operation. The Sensor ④ should be visible from the front of the flash unit.

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

Note: Refer to your camera instructions for the proper shutter speed setting for electronic flash.

3—Determine the f-stop setting using the Exposure Guide ⑦ on the flash as follows: Find the film speed of the film you are using on the top column. The film speed can be found on the film box or on the data sheet that comes packed with your film. * Where the film speed column intersects the white horizontal row on the guide, you will find the automatic f-stop setting for the film you are using. Set this f-stop on your camera lens.

Example: Using ASA 25 film, your automatic f-stop setting is f2.8. You can flash

automatically at this f-stop anywhere from 2-10 feet.

4—Slide the On-Off Switch ① to the 'On' position. Check camera focus. Take the picture after the Ready Light glows.

*The proper settings for film speeds not printed on the Exposure Guide are shown in the Specifications.

Cameras with built-in automatic flash control

Many new cameras have a feature which automatically sets the correct exposures for flash as you focus. For the camera and Vivitar 200 to operate properly together you **MUST**:

1—Set the correct guide number (see Specifications) on the Guide Number Scale of your camera (refer to your camera

instructions for the location of the Guide Number Ring); and

2—Make sure the flash's Auto/Manual Control Switch (5) is in the Manual ('M') position.

Manual operation

When you wish to use your Vivitar 200 in the manual mode (for example, pictures beyond the auto flash range, fill-in flash, etc.)—

1—Set the Auto/Manual Control Switch (5) to the Manual ('M') position.

2—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 on the camera's lens barrel after focusing.

3—Determine your f-stop setting using the Exposure Guide (7) on the flash as follows: Find the distance in the left hand column. Now find the film speed of the film you are using on the top column. The film speed can be found on the film box or on the data sheet that comes packed with your film.* Where these two columns intersect you will find an f-stop setting. Set this f-stop on your camera lens.

Note: For film speeds or distance settings not on the Exposure Guide, you can divide the flash Guide Number for the type of film you are using by the subject distance. The proper guide numbers for most popular film speeds are listed in the Specifications. Round off this figure to the closest f-stop and set this f-stop on your camera lens. For example, if the answer is 17, set your lens to f16.

4—Slide the 'On-Off' ① Switch to the 'On' position. Check the camera focus. Take the picture after the Ready Light ③ glows.

*The proper settings for film speeds not printed on the guide are shown in the Specifications.

After you've finished shooting

Battery—If you're not going to use your flash unit for an extended period of time, it is recommended you remove the battery.

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 unit will 're-form' faster and this procedure will prolong its life.

Specifications

Guide Numbers (ASA-Feet)

ASA film speed	25	50	64	80	100	125	160	200	400	800
Flash Guide No.	28	40	45	50	56	63	71	79	112	158

Guide Numbers(DIN-Meters)

DIN film speed	15	18	19	20	21	22	23	24	27	30
Flash Guide No.	9	12	14	15	17	19	22	24	34	48

Automatic operating range: 2 ft. to 10 ft.

BCPS (Beam Candle Power Seconds): 625

Recycle Time: 3.5 seconds (Based on fresh battery. Recycling takes longer as the battery drains)

Flash Duration: 1/1000 second

Color Temperature: 6000° Kelvin

Angles of Illumination: 55° vertical, 55° horizontal

Operating Position: Vertical

Power Source: 1 9V Alkaline battery (not included)

Flashes per battery: 200

Camera/Electronic flash synchronization connections: Hot Shoe, or optional PC Cord

Weight with battery: 6 oz. (186.6 g)

Dimensions:

3-1/4" x 1-5/16" x 2-11/16"

(83mm X 34mm X 69mm) (Less mounting foot)

Accessories Available:


Vivitar PC-1 12" Detachable PC Cord

Vivitar PC-31 3-foot coiled PC Cord

Vivitar Slave Units

For these ASA (DIN) film speeds, use the indicated columns on the Exposure Guide:

20 (14) 40 (17) 80 (20) 160 (23) 320 (26)
25 (15) 50 (18) 100 (21) 200 (24) 400 (27)
32 (16) 64 (19) 125 (22) 250 (25) 500 (28)



ASA	25	50	100	200	400
DIN	15	18	21	24	27

Specifications subject to change without notice.



NOTES: