

WILSONWERKS ARCHIVES

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Reliability

The most important feature of any electronic flash unit is its dependability. The modular construction and solid state circuit design of Vivitar electronic flash units, plus the strong emphasis on quality control, has earned Vivitar a reputation for reliability.

Two-year guarantee

Every Vivitar electronic flash unit is guaranteed for two years against any electronic or mechanical defect.

Other Vivitar products

VIVITAR LENSES AND OPTICAL ACCESSORIES

VIVITAR EXPOSURE METERS

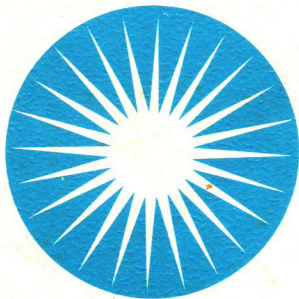
VIVITAR ENLARGERS

VIVITAR MOVIE CAMERAS

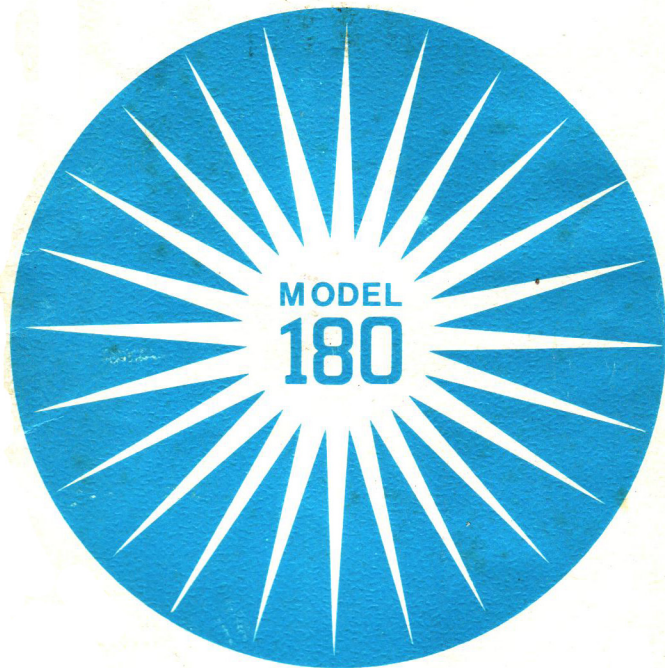
VIVITAR MOVIE PROJECTORS

VIVITAR CAMERA AND LENS COMPARTMENT CASES

VIVITAR TRIPODS



Vivitar Electronic Flash



Vivitar Corporation

Tokyo, Japan/Los Angeles, California

Marketed exclusively in the USA by **Ponder&Best**

New York/Chicago/Los Angeles

Printed in JAPAN

OPERATING INSTRUCTIONS

SPECIFICATIONS MODEL 180

BCPS: 1000 Half Power 2000 Full Power

Guide Numbers:

A. Half Power:

Kodachrome II (ASA 25)35
 Kodacolor X (ASA 80) 62
 High Speed Ektachrome (ASA 160) 85

B. Full Power:

Kodachrome II (ASA 25) 50
 Kodacolor X (ASA 80) 90
 High Speed Ektachrome (ASA 160) 120

Flash Duration:1/1000 sec.

Color Temperature: ... 6000°K Equivalent to noonday light; ideally suited for all daylight films.

Angle of Illumination:

Vertical 50°
 Horizontal 70°

Power Sources:

Built-in Rechargeable Nickel-cadmium Batteries, or AC

Flashes per Battery Charge: 60 Full 140 Half

Recharging Time: 2½ hours

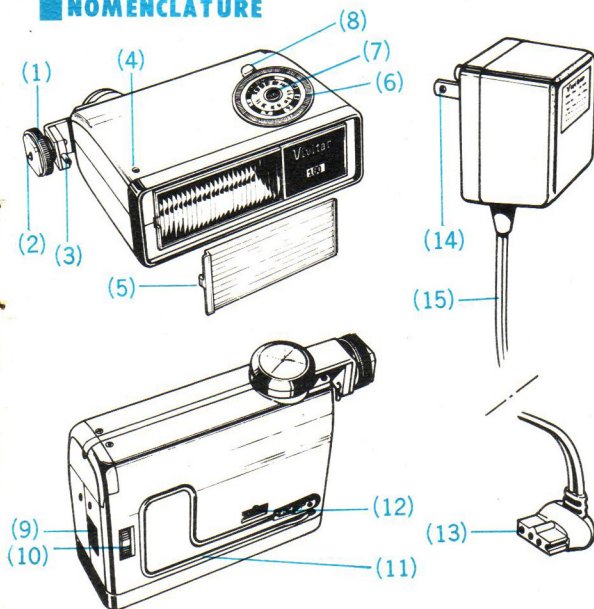
Recycle Time: .. 7-10 sec. AC, 6-8 sec. DC Full Power
 4- 6 sec. AC, 3-4 sec. DC Half Power

Operational Positions:

Vertical & Horizontal, with built-in hot shoe

Accessories Supplied:Illuminating Dial (built-in)
 Auxiliary Slave Outlet (built-in) PC Cord (built-in)
 Wide Angle Attachment AC Recharge Cord
 Leatherette Carrying Case

■ NOMENCLATURE



- | | |
|--|---|
| (1) Shoe Locking Screw | (9) AC/ Battery Switch |
| (2) Shoe | (10) HI/ LO Power Switch |
| (3) Hot Shoe Terminal | (11) Synchro-cord |
| (4) Auxiliary Synch. Outlet | (12) AC Charger Cord Receptacle |
| (5) Wide Angle Attachment | (13) Charger Plug to Unit |
| (6) Electroluminescent Calculator Dial | (14) Charger Plug to 117 Volt Wall Outlet |
| (7) Open Flash Button | (15) AC Charger Cord |
| (8) Ready Light | |

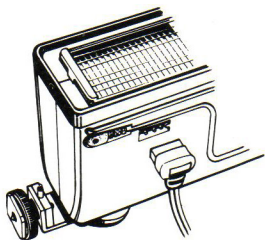
■ IMPORTANT

All instructions and specifications in this book, as well as the **Vivitar** 2 Year Guarantee, are based on the unit being used on 117 Volts AC (normal house current). The use of other sources for power supply will result in damage to the unit.

■ PREPARING THE VIVITAR ELECTRONIC FLASH FOR USE

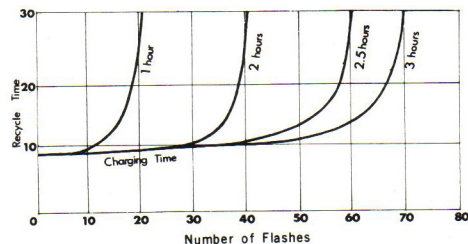
Before attempting to use the **Vivitar ELECTRONIC FLASH** on battery power for the first time, the capacitor (a device which stores electricity) in the unit must be "formed".

Push the AC/Battery Switch (9) to the "OFF" position. Insert the smaller end of the AC Charge Cord (13) into the AC cord receptacle (12) and plug the other end (14) into a 117 Volt wall outlet.



Leave the unit plugged into an AC outlet for 2 ½ hours, (the time necessary to fully rejuvenate the capacitor and charge the Nickel-cadmium batteries).

The graph shows the relationship between the number of flashes and flash recycle time when the unit is charged for 1 hour, 2 hours, 2 ½ hours and 3 hours.



After the unit has been charged, flash the unit four to five times by depressing the open flash button (7) once for each flash, allowing enough time, (6-8 seconds), between flashes for the ready light to glow. This flashing procedure "forms" the capacitor and assures maximum output when the unit is put into use.

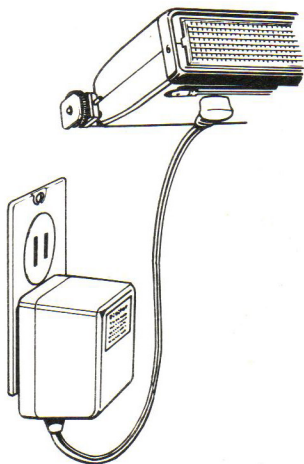
In addition, whenever the unit has been out of use for a few months, plug the unit into a wall outlet for at least five minutes in order to rejuvenate the batteries and capacitor.

■ AC OPERATION

By using the AC charge cord (15) with the **Vivitar 180 ELECTRONIC FLASH**, you are able to flash the unit directly from household current.

This is handy if the batteries, after heavy use or prolonged inactivity, have been drained.

First, the AC/Battery switch (9) must be in the "Off" position. Plug the AC cord into the unit; then into the wall outlet. When the ready light glows, the unit is ready for use.

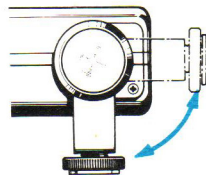


■ ATTACHING TO CAMERA

1. Selecting vertical or horizontal operation.

If the camera being used is a half frame 35mm camera, use the vertical position

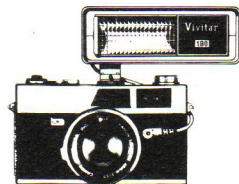
For full frame 35mm cameras, use the horizontal position.



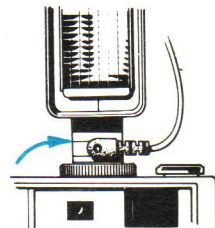
2. Insert the shoe (2) of the flash unit into the accessory clip of the camera and tighten shoe locking screw (1) securely.

3. Plug synchronization cord (11) into the flash terminal on the camera.

Terminal used should be marked "X". If an "X" terminal is not provided, set synchronization switch (usually located near shutter) to "X".



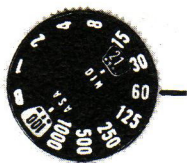
4. If your camera is supplied with a hot shoe terminal, plug the PC cord tip into the hot shoe terminal (3). The unit will then be fully synchronized to the camera through the contacts in the shoe.



■ SET CORRECT SHUTTER SPEED

With cameras having leaf type or rotary shutter (either electronic or mechanical), the shutter speed may be freely selected according to photographic conditions.

With cameras having a focal plane type shutter system, refer to camera operation instructions for correct speed setting for electronic flash (normally 1/30th to 1/60th or "X" setting on camera speed dial).



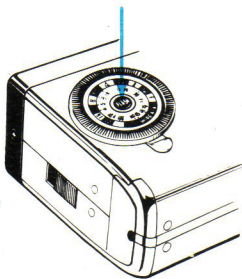
■ OPEN FLASH

To use the **Vivitar 180 ELECTRONIC FLASH** in "open flash" mode, place the AC/Battery switch (9) in the "ON" position.

When the ready light glows, open the shutter by setting the camera's shutter speed at "B" or "T".

(Consult your camera instruction book for specific information and procedures).

Then press the Open Flash Button (7), and close the shutter.



■ SETTING THE CORRECT LENS OPENING

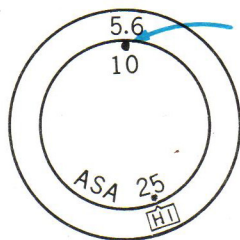
The **Vivitar 180 ELECTRONIC FLASH** can be operated at full power or half power. This feature is advantageous in enabling you to take pictures at closer distances where full power would cause over-exposure, and will also enable you to obtain a quicker recycle time if necessary. You will also get more flashes per charge at half power.

1. Set the proper indicator on the Exposure Calculator Dial opposite the ASA speed of the film being used in the camera. Please note:

There are four indicators on the calculator dial for indicating ASA speed. One is for full power flash **HI** and one is for half power flash **LO**. The remaining two indicators indicate High **HI** and Low **LO** power modes when the unit is used with the wide angle attachment in position. Make certain that the ASA speed indicator is opposite the power mode the speedlight is set to.

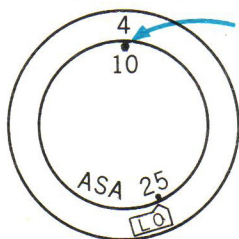
2. Focus the camera on the subject and then refer to Exposure Calculator Dial for the proper lens setting.

EXAMPLE:



If you are using HI power mode and you are 10 feet from the subject, the correct lens setting would be f5.6. You can determine the distance by estimating by eye, or looking at the distance indicated on the camera lens barrel after focusing.

EXAMPLE:



If you are using LO power mode and you are 10 feet from the subject, the correct lens setting would be f4. You can determine the distance by estimating by eye, or looking at the distance indicated on the camera lens barrel after focusing.

NOTE:

The exposure indicated by the Calculator Dial is for average conditions. Experience will indicate the choice of a slightly higher ASA value, which will reduce the exposure slightly, or a slightly lower ASA value which will give more exposure.

COMPLETION OF PICTURE TAKING

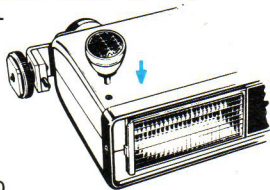
1. Place "AC / Battery" switch to "Off" position immediately after you are finished taking pictures in order to preserve battery life.
2. Storage
Before storing the unit, switch it to "On" position. When the ready light glows, then switch to "Off" position. By storing the unit with ready light glowing, the life efficiency of the capacitor will be increased.
3. Batteries
Your unit has built-in Nickel-cadmium batteries which have been designed and manufactured to provide power for the life of your unit with normal use. Any attempt to remove the batteries can cause a short circuit, damaging your unit, and voiding the guarantee. All repairs and servicing should be done at an authorized **Vivitar** service facility through your dealer.

■ MULTIPLE FLASH OPERATION

The **Vivitar model 180 ELECTRONIC FLASH** may be used for multiple flash exposure or as a Slave flash by plugging the **Vivitar model SL-1** accessory Slave unit into the Auxiliary Sync. Outlet (4).

This will enable the electronic flash to fire in unison with any electronic flash synchronized to the camera.

The technique for using multiple flash units requires additional reading material on this subject in order to assure perfect exposures.



■ WIDE ANGLE ATTACHMENT

The **Vivitar model 180 ELECTRONIC FLASH** is supplied with a wide angle attachment (5) which, when attached to the front of the **Vivitar ELECTRONIC FLASH**, will increase your angle of coverage so that it can be used in conjunction with wide angle lenses. When mounted, the unit will cover approximately 70° vertically and horizontally, enabling you to use a 35mm wide angle lens with a 35mm camera.

