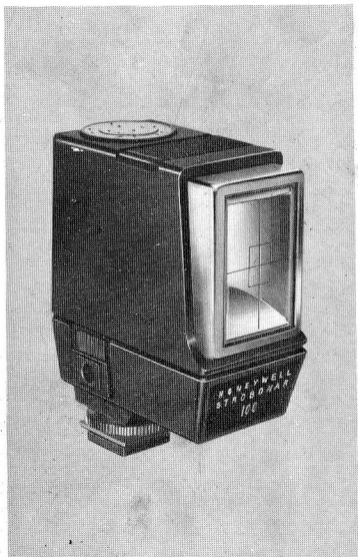


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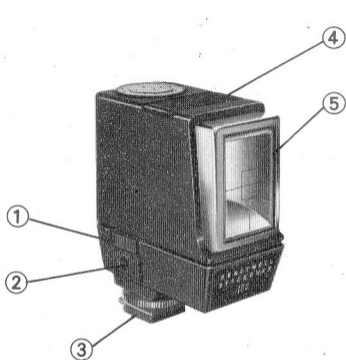
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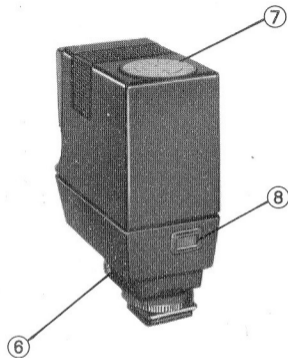


**How to
use your
Honeywell
Strobolar 100**

Nomenclature of Your Strobonar 100



1. Battery Switch
2. AC Accessory and Charger Unit Receptacle
3. Mounting Foot
4. Battery Compartment Cover



5. Lens
6. Shutter Cord Outlet
7. Exposure Computer Dial
8. Neon Ready Light

Strobonar 100 Specifications

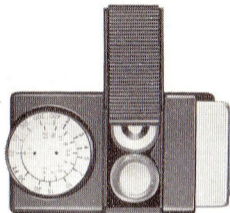
| | |
|-------------------------|--|
| Guide Number | 25 for ASA 25 film |
| Angle of Coverage | 50 degrees horizontal and vertical |
| Color Temperature | Perfectly adapted for daylight type color film |
| Flash Duration | 1/3000 sec. |
| Power Source | Two 1.5V penlight (AA size) alkaline or nickel cadmium batteries. AC household current with AC accessory and charger unit (Adjustable to 100V, 120V, or 220V through switching the built-in voltage selector.) |
| Recycling Time | 10 seconds on fresh alkaline batteries 30 seconds with AC accessory and charger unit |
| Number of Flashes | 100 flashes per replacement of alkaline batteries |
| Dimensions | 2.75" × 1.4" × 2.5" |
| Weight | 3.2 ounces (less batteries) |

How to Insert the Batteries

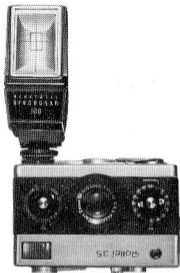
Your Strobonar 100 holds two 1.5 volt AA size Penlight batteries. A fresh set of Alkaline batteries produces about 100 flashes. When your batteries are exhausted, replace them with new batteries. If you plan not to use your Strobonar for extended periods, it is best to remove the batteries.

- To open the battery compartment, slide out the cover (4) on top of the unit.
- Insert the two batteries according to the diagram on the inside of the compartment.
- Slide the cover back to its original position.
- Slide the battery switch (1) to On (white dot visible).
- You will hear a faint whine indicating that the storage capacitor is being charged and the batteries have been installed properly.
- Set the battery switch to Off (white dot not visible).

Caution: Always turn the battery switch to Off when not using your Strobonar. This prevents the batteries from discharging.



How to Attach the Unit to the Camera



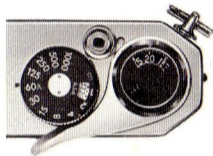
You can attach your Strobolar 100 directly to your camera if your camera has an accessory clip or you can use one of the many brackets available as optional accessories (see your dealer). The 100 comes with a hot center contact in the mounting foot. If your camera has a hot center contact in the accessory clip, you do not need a shutter cord. Your 100 is supplied with a Honeywell shutter cord with a miniature jack on one end for connecting to your Strobolar and a PC connector on the other end. When the miniature jack on the Honeywell shutter cord is connected, the hot center contact is disconnected.



- **Cameras with Hot Center Contact in the Accessory Clip:** Mount your Strobolar 100 into the accessory clip. The 100 will then be fully synchronized to the camera through the contacts in the accessory clip (see page 6).
- **Camera with Flash Terminals:** Mount the camera into the accessory clip or attach a bracket.
- Connect the miniature jack on the shutter cord to your Strobolar 100 and the PC connector to the X contact (zero delay) of your camera, making sure that the flash synchronization lever is set to "X" if adjustable (see page 6).
- Always use a shutter cord with a Honeywell miniature jack on one end for connecting to the Strobolar. Otherwise the hot center contact may be connected and could cause random flashing.

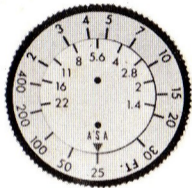
Shutter Speed

- The proper shutter speed to use with your Strobonar 100 depends on your camera. It is primarily a matter of synchronization and not exposure determination, since the flash duration of the Strobonar is shorter than any normal camera shutter speed.
- Your Strobonar 100 is designed to operate with built-in "X" flash contacts (zero delay). If your camera has a between-the-lens shutter with X-contacts, it will synchronize at all speeds. If your camera has a focal plane shutter with X-synchronization, it will synchronize only at slower speeds – generally up to 1/60 second, depending on the camera.
- To determine at what shutter speeds your camera is properly synchronized for use with electronic flash, check your camera instruction manual, or if in doubt, check with your dealer. Generally speaking, if it is possible for you to use the higher shutter speeds, it is best to do so, particularly when the existing indoor light or daylight is bright.



How to Determine Exposure

- Adjust the Exposure Computer Dial so that the figure denoting the ASA rating of the film loaded in your camera aligns with the triangular index mark.
- Locate the figure equivalent to the distance from your flash unit to your subject on the outer scale of the dial which is calibrated in feet, and read off the lens opening setting for that distance on the inner scale.



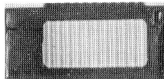
EXAMPLE: When using Kodachrome II film which has a speed rating of ASA 25, the Exposure Computer Dial will give a lens opening setting of $f/5.6$ for a subject distance of $4\frac{1}{2}$ feet, $f/2.8$ for a subject distance of 9 feet.

NOTE: When photographing outdoors or in a large room where there is no effective reflecting surface, open the lens by one or two stops more than the reading given by the Exposure Computer Dial. This will give you better results.

How to Operate on Battery

- Make sure the batteries are installed and working (see page 4).
- Shift the battery switch (1) to On (white dot visible). You will then hear a faint whine indicating the capacitor is being charged.
- Set your camera shutter speed (see page 6).
- Determine exposure (see page 7).
- After the neon ready lamp (8) glows, you may take the picture.

CAUTION: Always slide the battery switch to Off (white dot not visible) when not using the flash unit to prevent discharging the batteries.



How to Use Your AC Accessory and Charger Unit

The AC accessory and charger unit for the Strobonar 100 allows both charging of rechargeable nickel cadmium batteries and AC operation of your Strobonar 100 from most voltages and frequencies in common use.

The three voltage selection ranges on the AC accessory and charger unit allows operation in the following ranges:

| Switch Position | Voltage and Frequency Range |
|-----------------|-----------------------------|
| 100 | 95 to 105 VAC, 50 TP 60 HZ |
| 120 | 105 to 129 VAC, 50 TO 60 HZ |
| 220 | 198 to 242 VAC, 50 TP 60 HZ |

For more detailed instructions as to the use of the AC accessory and charger unit, please see the instructions packed with the unit.

- Set the voltage selector so that it shows a voltage indication of either 100V, 120V, or 220V whichever matches the line voltage in your territory.
- The battery switch (1) should be Off (white dot not visible) when operating your Strobonar 100 on AC household current.
- Connect the AC accessory and charger unit to the Strobonar and to the wall outlet.
- Set your camera shutter speed (see page 6).
- Determine exposure (see page 7).
- After the neon ready lamp glows (8), you may take the picture.

Monthly Maintenance

Like all power sources for electronic flash, your Strobonar 100 has an energy storage capacitor. When the unit is not used for several weeks, the storage capacitor "deforms", which means it loses some of its capacity to store electrical energy. The longer the time between uses, the more "deformed" the capacitor becomes. In a sense, it goes dead, and needs "reforming" to put it in efficient operating condition. A deformed storage capacitor causes longer recycle time for the first few flashes and loss of battery power.

If your Strobonar has been used infrequently or has not been used for about 30 days, reform the storage capacitor as described below:

Without AC Accessory and Charger Unit

- Shift the battery switch to On (white dot visible).
- Fire off a few flashes by shorting out the PC cord or contacts in the mounting foot.

NOTE: If you are in a hurry, reform the storage capacitor by using it in your photograph situation. Just remember that your recycle time will be longer for the first few flashes.

With AC Accessory and Charger Unit

- Set the voltage selector on the wall box so that it shows a voltage indication of 100V, 120V, or 220V whichever matches the line voltage in your territory.
- Set the battery switch (1) to Off (white dot not visible).
- Connect the AC accessory and charger unit to your Strobonar 100 and to the wall outlet.
- It takes about 30 minutes to reform the storage capacitor using the AC accessory and charger unit.

Circuit Test

To test the circuit of your unit, either short the PC cord or the hot shoe contacts with a paper clip or other metal object.

If the unit flashes as a result of this test but fails to trigger when mounted on the camera, it is an indication of poor contact with the camera or malfunction of the flash contact of your camera.

In case your unit fails to flash in the course of the circuit test or, in actual use, do not attempt to repair it yourself. Return it to your Honeywell Photographic dealer.

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