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Your new SUNPAK 7-D flash unit operates on either self-contained, replaceable penlite batteries or 100～250 volts AC. It is a modern unit employing modern transistor circuitry. There are no mechanical moving parts. With normal use and care, it should provide reliable performance for many, many thousands of pictures.

IMPORTANT:

Before using your new SUNPAK 7-D flash unit on batteries, it is essential that it be plugged into an AC line for about ½ to 1 hour. Use AC power cord, (as in AC operation) and set Battery/AC selector to AC. The purpose of this is to 'reform' or recondition the capacitor which normally becomes 'deformed' with disuse. This practice is also advisable whenever the unit has not been used for an, extended period of time.
1. lenticulay flash window
2. accessory shoe bracket
3. AC cord receptacle
4. synch-cord socket
5. extension flash terminal
6. battery compartment lid
7. exposure calculator
8. AC/battery selector switch
9. AC. voltage selector
10. open-flash button and ready-lite glow lamp
11. PC synch cord
12. AC power cord
ATTACHING TO CAMERA

Screw Accessory Shoe Bracket into threaded socket on bottom of flash unit.
Mount unit on camera by sliding bracket into camera accessory shoe, and tighten knurled ring.

ATTACHING TO SHUTTER

With unit securely mounted on camera, insert male (household type) plug of camera synch. cord into socket, and plug PC tip into flash terminal on camera.
Make certain that your camera shutter is set for X synchronization, and the shutter set at the speed recommended for zero-delay flash units.

NOTE:
The duration of the SUNPAK 7-D flash is 1/1,500th second, and will effectively stop fast action, regardless of shutter speed setting.
INSTALLING BATTERIES

Open battery compartment by pushing back the lid. Compartment holds 4 penlite batteries. Insert batteries with relation to (+) and (−) as shown on unit.

Close compartment cover.

BATTERY OPERATION

Slide Battery/AC Selector switch to B position. You will hear a sustained high-pitch 'beep' indicating that the unit is in operation. When the ready-light begins to glow, the camera is ready to be fired. With fresh batteries, the ready-light will go on in about 8 seconds, and will recycle after each firing for about the same time.

A set of fresh zinc-carbon batteries will deliver about 50 flashes before replacement becomes necessary. A set of manganese-alkaline batteries will deliver about 3 times as many.
AC OPERATION

Be sure the position of arrow mark on AC voltage selector with your AC household current voltage before use.

The batteries need not be removed. Simply slide the Battery/AC Selector switch to ~ position. Insert AC power cord terminal into AC cord receptacle and plug other end into AC outlet.

When the ready-light goes on, you are ready to fire. There will be no 'beep' tone audible during AC operation. Recycling time with AC is about 4 seconds.

NOTE:

When the unit is not being used, the Battery/AC Selector switch should be kept in AC position to prevent discharging the batteries.
DETERMINING EXPOSURE

Rotate the outer ring of the Exposure Calculator on the unit until the arrow points to the ASA or DIN speed rating for the film in use. The correct lens aperture will be found on the inner dial adjacent to the distance from the unit to the subject. Black arrow mark points both Black & white and Color films.

If, for example, you are using ASA 25 film, photographing a subject 10 feet away, the indicated lens aperture would fall f 4.

Another method often used for obtaining correct f stop is with film guide numbers. Dividing the guide number by the subject distance gives the numerical value of the f stop to be used. In the above example, using ASA 100 film the guide number would be 80. At 10 feet, the aperture would then be $80 \div 10$, or f 8.
SYNCHRO-DAYLIGHT FLASH PHOTOGRAPHY

The SUNPAK 7-D can improve the quality of your outdoor pictures, too, on sunny as well as on dull days. Using the sun as a backlight, the flash unit will give you luminous shadows, natural facial expressions and a distinctive professional picture quality.

Eliminates squinting and harsh shadows. The color temperature of the SUNPAK 7-D flash is 5800°K, and is ideal for use with 'daylight type' color films.

One method for determining synchro-daylight exposure is to find the lens aperture required for the flash, and use the shutter speed required for that aperture as determined with an exposure meter. Naturally, the camera must have provision for X synchronization at that shutter speed.

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EXTENSION FLASH

Two SUNPAK 7-D units may be used in tandem, and fired simultaneously, either to double the light output, or to provide additional subject lighting at another angle. A connecting cord is used, equipped with a PC tip at each end. One is plugged into the PC receptacle on the unit coupled to the camera, and the other, into the same receptacle on the extension unit. Both flash units will go off simultaneously when the camera shutter is tripped.
## SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>approx. 11 ozs.</td>
</tr>
<tr>
<td>Light Covering Angle</td>
<td>65°</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>5800° K</td>
</tr>
<tr>
<td>Flash Duration</td>
<td>1/1,500th second</td>
</tr>
<tr>
<td>Recycling Time</td>
<td>6-10 seconds on batteries</td>
</tr>
<tr>
<td></td>
<td>4-6 seconds on AC</td>
</tr>
<tr>
<td>Power Source</td>
<td>4 standard penlite batteries-zinc/carbon,</td>
</tr>
<tr>
<td></td>
<td>manganese alkaline or mercury</td>
</tr>
<tr>
<td>Guide Number</td>
<td>40 Kodachrome Ⅱ (in feet)</td>
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