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ASAHI PENTAX AF-130P



WHEN TO USE THE FLASH

The Pentax AF 130P auto flash unit was designed exclusively for use with the AUTO 110 in situations where lighting is insufficient for correctly exposed photographs. As a rule, use either the AF 130P or a tripod when the yellow indicator in the camera viewfinder lights, indicating a low light reading. These occasions are principally outdoors at night or indoors in dim lighting. Use of flash is required less frequently with high-speed ASA 400 film than with ASA 100.

* Do not use the flash unit when the green LED lights in the finder, in which case over-exposure will result.

AF 130P AUTO FLASH SPECIFICATIONS

Type	Direct contact Auto Flash Unit.
Guide Number	13 (ASA 100 in meters).
Effective Flash Range	0.8 - 4.6 meters (2.6 - 15 ft.).
Sensor Reception Angle	Approx. 18 degrees (sufficient coverage for the 18mm f/2.8 wide-angle lens).
Number of Flashes	250 (with alkaline-manganese batteries)
Recycling Time	7 sec. (at full charge)
Color Temperature	Equivalent to daylight.
Flash Coverage Angle	45° vertical, 55° horizontal.
Power Source	Two 1.5V AA-size alkaline-manganese batteries.
Mounting	Mounts to special contact on top of camera.
Synchronization	Automatically synchronizes with programmed shutter at 1/30 sec. at programmed aperture of f/2.8.
Other Features	Combined test button/ready lamp; power switch.
Size	71mm x 41mm x 63mm
Weight	102g/3.6 ozs. (without batteries)

AF 130P AUTO FLASH DESCRIPTION OF PARTS



1. Battery compartment cover
2. Flash-synch-cap holder
3. Flash head
4. Auto sensor
5. Contact pin
6. Flash-synch shoe
7. Lock dial
8. Test button/ready lamp
9. Power switch
10. Flash range scale

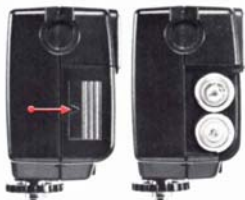


BATTERY LOADING

1 Slide the battery compartment cover in the direction of the arrow and remove it.

2 Insert two AA-size penlight batteries in accordance with (+) and (-) diagrams inside the compartment. Then, replace the cover.

* Do not use Ni-Cd batteries in this unit. For battery replacement, use high-performance AA-size alkaline batteries.

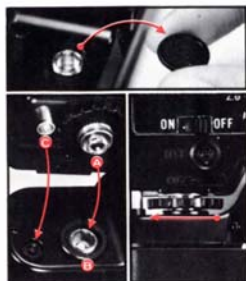


MOUNTING THE FLASH UNIT

Before mounting the flash unit, remove the flash-synch-shoe cap on the camera body and place it in the synch-cap holder on the side of the flash unit to prevent losing it.

1 Hold the camera and the flash unit with their backsides facing you. Then, insert the flash synch contact (A) of the flash unit into the flash-synch-shoe (B) on top of the camera. At the same time, make sure that the small contact pins (C) line up properly for insertion.

2 Secure the flash unit to the camera by turning the knurled lock dial in the direction of the arrow.



SHOOTING

- 1 Slide the flash unit's power switch to ON. (The flash unit synchronizes automatically with the camera's shutter system when the power is switched on.)
- 2 In approximately 5 to 10 seconds the yellow ready lamp on the back of the flash unit will light to indicate that the unit is fully charged. After ascertaining that the subject is in the effective flash range of the unit (See "Effective Flash Range," page 30), focus and shoot in the normal manner with the camera's film advance lever.

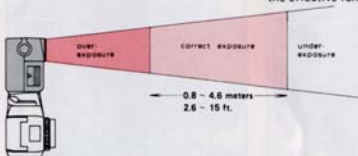


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EFFECTIVE FLASH RANGE

The auto flash control range of the AF 130P is 0.8 - 4.6 meters (2.6 - 15 ft.) when using both ASA 100 and ASA 400 film. Underexposure will result if the subject is beyond this range; likewise, overexposure will result if the subject is too close.

• With practice you will be able to easily estimate whether or not the subject is within effective flash range. If you are not sure, the quickest way to find out is to focus with the lens and read off the distance to the subject indicated on the lens' distance scale. Correct focus will be obtained if the subject is within the effective range.



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TEST FLASH

Testing the Unit: After inserting new batteries, or when the flash unit has not been used for a long period of time, it is a good idea to test it to assure that it works properly.

- 1 Turn the power switch to ON.
 - 2 When the ready lamp lights (which also doubles as the test button), press it for test flash.
- Normally the flash unit will flash if it is working properly. The ready lamp will not light and the unit will not flash, however, if batteries are improperly inserted or worn down. If there is a problem, and neither of the above is the cause, the unit may require servicing.



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FLASH SYNCHRONIZATION & EXPOSURE

With both ASA 100 and ASA 400 films, the AF 130P synchronizes automatically when the power is switched on (even when the ready lamp is not lit). With ASA 100 film loaded in the camera, the flash unit synchronizes at a shutter speed of 1/30 sec. and a lens aperture of 2.8; with ASA 400 film, shutter speed synchronization is also 1/30 sec., while the preselected lens aperture changes to f/5.6.

• Although there are less occasions when use of the flash unit is necessary with ASA 400 film in the camera, the smaller f/5.6 preselected lens aperture chosen by the camera when ASA 400 film is used offers greater depth of field, or the portion of the distance in front of and behind the subject that is in focus. Thus, ASA 400 film is useful when a wider focus range is desired in flash photography.

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