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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX AF160FC. You'll find the answers to all your questions on the PENTAX AF160FC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX AF160FC  
User guide PENTAX AF160FC  
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Instruction manual PENTAX AF160FC

**PENTAX**

オートマクロストロボ  
Auto Macro Flash

**AF160FC**

使用説明書  
OPERATING MANUAL

**EN** **JA**



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**Manual abstract:**

This symbol indicates that violating this item could cause serious personal injuries. This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses. Do not attempt to disassemble the flash unit yourself, as there is danger of an electric shock. If internal parts of the flash unit become exposed due to impact, etc., do not touch them as there is danger of an electric shock. Do not expose the flash unit to water or moisture as there is danger of an electric shock. Do not use the flash near anyone's eyes, as it may hurt them. Be particularly careful with the flash around infants. The following may lead to an explosion or fire. Shorting the batteries Exposing the batteries to flames Dismantling the batteries Attempting to recharge non-rechargeable batteries Remove the batteries from the flash unit immediately if they become hot or begin to smoke.

Be careful not to burn yourself during removal. Precautions for Your Flash Unit Never use organic solvents such as paint thinner, alcohol or benzene to clean the flash unit. Avoid leaving the flash unit for extended periods in places where the humidity and temperature may be very high such as in a car. Be careful not to subject the flash unit to strong vibrations, shock or pressure. Use a cushion to protect the flash unit when carrying it in a motorcycle, car, boat, etc. Do not use the flash unit where it may be directly exposed to rain, water, etc. replace all the batteries at the same time. Do not mix battery brands, type or an old battery with a new one. it may cause explosion or overheating. When using the flash unit off the camera, do not try to attach any metallic object to the electric contacts or to mount incompatible accessories.

@@@@Otherwise, some functions may not work properly. We will not be held responsible for any accidents or damage, etc. @@Periodic checks are recommended every 1 to 2 years in order to maintain high performance. If the unit has not been used for an extended period of time, or is being readied for an important shoot, it is recommended that you take a test flash with the TEST button and test shoot with it. When the flash unit is subjected to rain or moisture, wipe it off with a dry soft cloth. Remove the batteries when not using the flash unit for extended periods. Otherwise, battery leakage might result and cause damage to the circuitry and proper operation of the flash unit. Battery performance may temporarily be hindered in low temperatures. Batteries should be kept warm in temperatures below freezing for proper performance. When photographing black subjects or white subjects, use exposure compensation.

13 Getting ready 14 Taking pictures in manual flash mode. Using the flash head output switch. How to mount the macro flash unit. This chapter explains about getting ready to take pictures after you purchase the flash unit. Be sure to read this chapter before you start taking pictures or operating the flash unit.

This chapter explains how to take pictures and how to set the functions for taking pictures. This chapter explains how to use the functions of the flash unit. Packing list Make sure that everything on the list is in the package. Contact the retailer where you purchased the flash unit if anything is missing or damaged.

Names of parts (Controller) Battery chamber cover Mode dial: Selects the flash mode.

31) Turns the modeling light on the flash head on and off. Names of parts (Flash head) 1 2 3 4 5 Flash head output switch (P. Slide the battery chamber cover as shown in the figure and remove it. Insert the above four AA batteries sequentially from lower one making sure the plus/minus markings +, - match the diagram inside the battery chamber and close the battery chamber cover. @@@@Also, do not combine old batteries with new batteries even if they are the same type.

â· Remove the batteries if you are not going to use the flash unit for a long time. How to check the charge (A:) Insert the batteries and then turn on the power. The READY lamp will light up when the flash is charged. How to test the flash unit (B:) When the READY lamp lights, press the READY lamp/TEST button. If the flash unit fires, there is no problem.

About auto power off The flash unit is equipped with an auto power off function. The flash unit automatically turns off to save power if it is not used for about three minutes. How to mount the macro flash unit Attach the lens you are going to use before mounting the macro flash. 3 Attach the flash head to the adapter This section explains them in order. Keep the flash shoe cover safe and do not lose it. Turn the locking lever of the controller away from [FIX ]. loosen it so the flash shoe mounts easily. Slide the flash shoe of the controller into the camera's hot flash shoe from the back of the camera. The flash unit uses a lock pin mechanism. Because of this, removing the flash unit without loosening the lock lever may damage the flash shoe of cameras that have the lock-pin mechanism.

Be sure to loosen the lock lever before removing the flash unit. Types of adapters The adapters that can be used vary depending on the type of lens. @@This section explains how to mount these types of adapters. @@@@ in the appendix and take test pictures to decide the exposure. @@ (P. 31) \* Turn on the modeling light to see where shadows will fall before you take a picture. You can adjust where the shadows fall by rotating the flash head after you have changed the flash output ratio. The correct flash output is obtained in P-TTL auto mode only when the flash unit is used with auto-focus lenses. â· Set the aperture of the lens to A when taking pictures in auto flash mode. if your lens has an aperture ring, set it to A.

If it is not set to A, the flash unit cannot function in P-TTL auto mode. @@@@\* The camera must be set to something other than manual mode. @@ refer to the camera operation manual for details. \* Adjustment is only possible with P-TTL. @@ determine the flash output from the exposure and test pictures.

@@@@About exposure values As the magnification goes up, or as the subject gets closer, the brightness of the image on the imaging sensor element goes down. However, in manual flash mode, the exposure value must be considered and adjusted manually. Take test pictures of the actual subject to decide on an exposure, because conditions of the shot and subject have a large effect on the exposure. Conditions of the subject change exposure values The exposure requirements change according to the condition of the lighting and the subject. take test shots to determine the exposure.

Taking test shots is essential to proper use of manual flash mode. compensating flash output with the mode dial Use the mode dial to set the output of the flash. The mode dial has seven positions, of which threethat tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop.



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*@@@@@@@This warranty policy does not affect customer's statutory rights. The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. TEL 0120-97-0405 This equipment has been tested and found comply with the limits 8002100 for a Class B digital device, pursuant to part 15 of the FCC Rules. 9001800 These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interferen.*



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