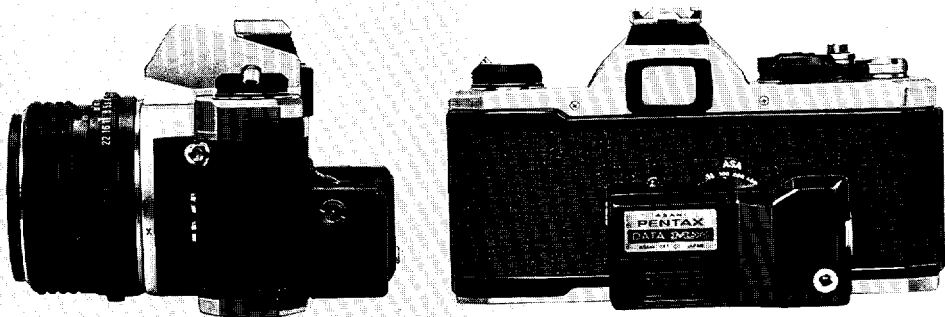
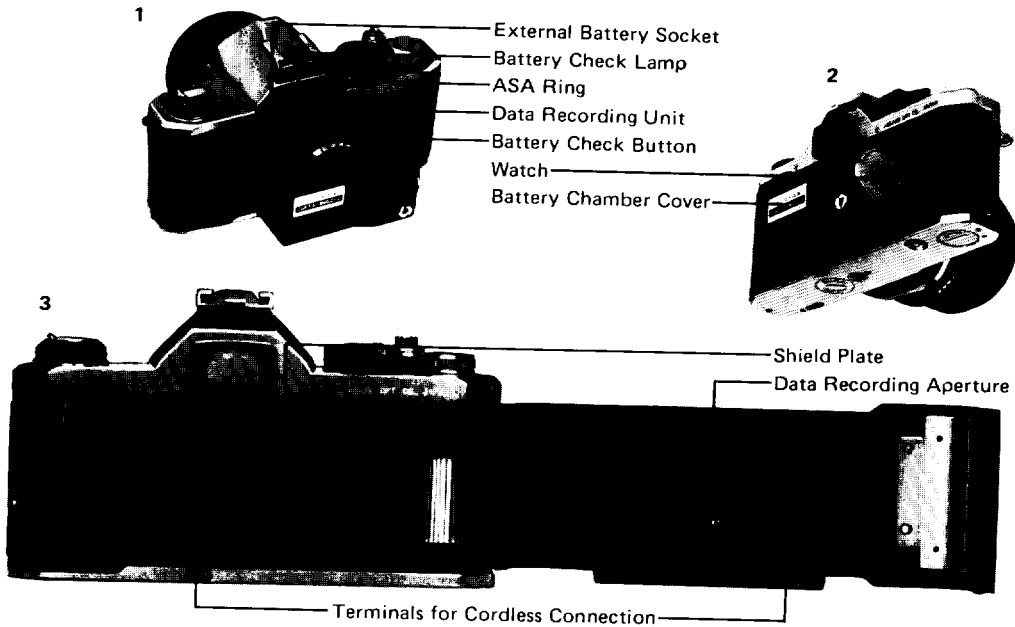


ASAHI PENTAX



NOMENCLATURE



SPECIFICATIONS

Film Type:	35mm Film.
ASA Ring:	Three settings for black and white: 100, 200, 400 ASA; one setting for color: 64 - 100 ASA; for 400 ASA color film the ASA Ring is set to the black and white 100 ASA position.
Data Recording Unit:	Built-in 21 jewel Citizen watch which indicates date, hour, minute, second, and has a central ground glass area for penciling in additional data (e.g. year and month); watch is interchangeable with Data Recording Plate, the entire surface of which is ground glass to allow the penciling in of data of any sort. Data Recording Unit has terminals for cordless connection with the camera body, Battery Check Button and Battery Check Lamp, and an External Battery Socket for use in extreme cold (-5°C and below). One 6V silver oxide battery (Eveready No. 544 or equivalent) or a No. 537 alkaline battery serves as power source.
Back Cover:	Interchangeable with MX Standard Back Cover, Dial Data MX, and Bulk Film Magazine MX.
Dimensions:	135.5mm(L) x 82.5mm (H) x 113.5mm (D) (with 50mm f/1.4).
Weight:	836g (with 50mm f/1.4 and Battery).
Accessory:	Data Recording Plate (1 pc).
Optional Accessories:	MX Standard Back Cover, Data MX Soft Case, Data MX Battery Cord.

** All other specifications identical to those of the Asahi Pentax MX.*

FEATURES & APPLICATIONS

Asahi Pentax Data cameras are the only models which record the date and time (including seconds) at the very instant the photograph is taken.

1. The Data Recording Unit attached to the Back Cover contains a 3 hand calendar watch which indicates the date, hour, minute and second. The year, month and am/pm can be inscribed on the watch face in its central ground glass area. The watch is illuminated when a lamp inside the Date Recording Unit flashes as the shutter release is pressed. A convex lens projects the image of the watch onto the bottom right hand corner of the film from behind. A small Shield Plate protects this corner of the film from the normal exposure. Thus, no matter how strong the normal exposure may be, the watch image will always appear clear and sharp. Moreover, the watch can be freely and readily replaced by a special Data Recording Plate which allows the imprinting of any type of data, such as place, purpose, or cameraman.

2. As the Back Cover is closed, the illumination lamp of the Data Recording Unit is automatically, electrically coupled to the Shutter Release Button, doing away with the need of a synchronization cord.

3. Whether you hold the camera vertically or horizontally, the Data Recording Unit does not obstruct the viewfinder (see Illust. 4 & 5). Nor does it hinder smooth operation of the camera or prevent its use on a tripod.

4. A hot shoe, as well as FP and X synchronization terminals are provided to allow any form of flash photography.

5. By removing the battery from the Data Recording Unit and lowering the Shield Plate, the full frame can be used as an ordinary camera. Furthermore, if the Data Recording Back is interchanged with the Standard Back Cover (optional accessory), the camera will be reduced to the same size as the Pentax MX.

6. Data MX can be used in combination with Winder MX or Motor Drive MX for automatically recording data at a rate of up to 5 fps.

The scope for effective use of time and data recorded photography is unlimited, especially when taking a series of pictures. Examples of application include: the daily, or even hourly progress made at construction sites, scientific and motion studies, the study of growth of plants or animals, criminal investigation, sporting events, and even more personal things like a record of weddings, overseas trips, and the occasions when friends and relatives all get together.

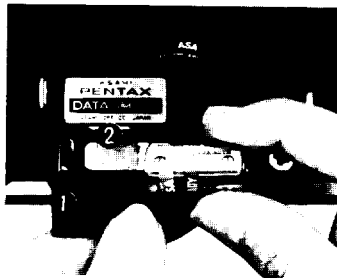




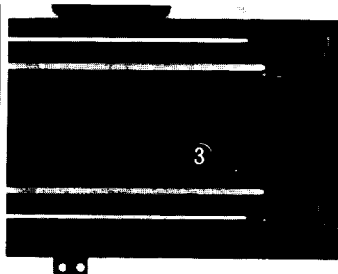


OPERATION

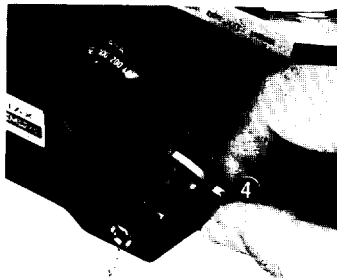
8



9



10-1



This instruction manual refers only to the Data Recording Unit. For a description of operation of the camera itself, please read the relevant instruction manual.

INSERTING THE BATTERY

Illust. 8. Remove the Battery Chamber Cover (1) by sliding it in the direction indicated by the arrow. Hold the 6V. silver oxide battery with the plus and minus poles matching those of the diagram attached to the base of the Battery Chamber. Next, insert the battery into the chamber. The vinyl tape (2) should rest under the battery to facilitate removal in the future.

8

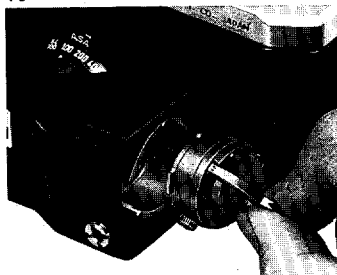
CHECK POSITION OF THE SHIELD PLATE

Illust. 9. The retractable Shield Plate (3) should be lowered into position as shown. Note however, that this corner corresponds to the top left-hand corner in your viewfinder, so avoid including any important subject matter in that area.

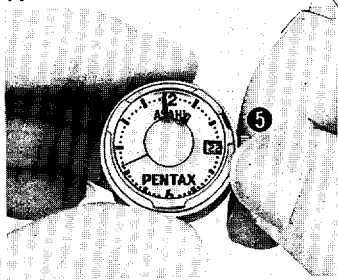
REMOVING AND INSERTING THE WATCH

Illust. 10-1 & 10-2. Raise the watch grip (4), turn the watch to the left until it stops, and lift out. When replacing the watch, insert into compartment while matching red dots, then turn to the right until it stops, and lower watch grip. The Data Recording Aperture in the Pressure Plate (Illust. 3)

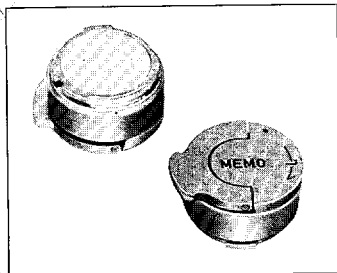
10-2



11



12



is automatically closed when the watch is removed, permitting you to remove the watch at any time without fear of accidentally exposing the film.

SETTING THE WATCH

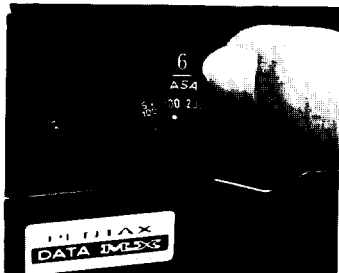
Illust. 11. The watch is much the same as an ordinary 24-hour wind, calendar wrist-watch. To wind the watch, simply rotate the arm (5) back and forth like an ordinary watch. To set the time, pull the arm out one notch and then rotate. Pull the arm out as far as it will go to change the date. Each time the spring-loaded arm is pulled all the way out, the date will change.

The year and month (and am/pm) can be written on the ground glass part of the watch face. Use an ordinary lead pencil since it can easily be erased.

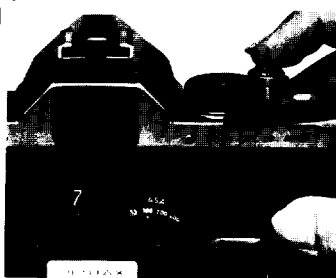
DATA RECORDING PLATE (MEMO)

Illust. 12. This plate is exactly the same size as the watch, making them freely interchangeable with each other. When you wish to record data other than the time, simply replace the watch with the Data Recording Plate (on which you have written the desired data). One Data Recording Plate is supplied with the camera.

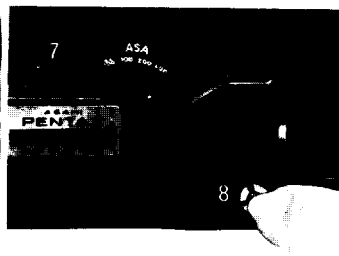
13



14



15



SETTING FILM SPEED

Illust. 13. Set the ASA Ring (6) to the same film speed of the film in the camera. Color film speeds of ASA 64, 80 and 100 are set at the same position (64 - 100). When using Fujicolor F II 400, set the ASA Ring to the black and white 100 ASA position. Incorrect settings of the ASA Ring may result in serious under or overexposure of the watch image, making it difficult to see.

CIRCUIT CHECK

Illust. 14. Load the film, and then take two blank

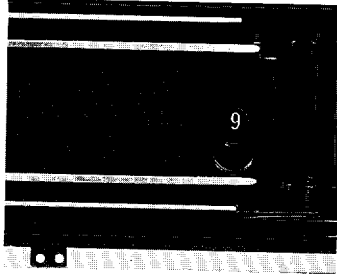
exposures. At this time, check that the Check Lamp (7) illuminates the instant the shutter release is operated. This lamp shows that the watch illumination lamp is functioning correctly, and will flash every time the shutter release is pressed.

BATTERY CHECK AND REPLACEMENT

Illust. 15. To check the battery, depress the Battery Check Button. If the battery condition is good, the lamp will illuminate. If the lamp fails to illuminate, replace the battery with a fresh one. When disposing of a used battery, observe the precautions found in the Pentax MX instruction manual.

OTHER APPLICATIONS

16

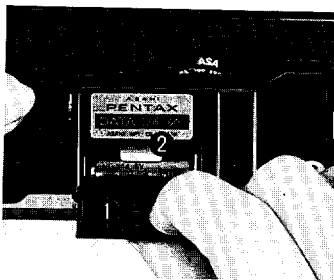


**WHEN DATA RECORDING IS NOT REQUIRED,
OR WHEN DESIRING TO USE ALL OF THE
FILM FRAME**

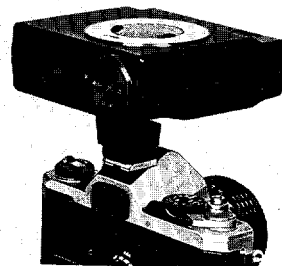
Illust. 16. Raise the Shield Plate by rotating clockwise the Shield Plate Dial (9) with the ball of the thumb.

Illust. 17. Remove the battery. If the battery is not removed, the illumination lamp will continue to expose the film, even if the watch or Data Recording Plate have not been inserted.

17



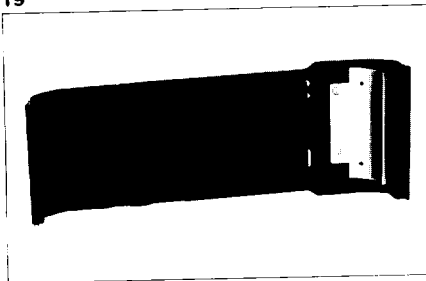
18



ELECTRONIC FLASH AND FLASH BULBS
Illust. 18. The use of electronic flash and flash bulbs is exactly the same as with the Pentax MX.

OPTIONAL ACCESSORIES

19

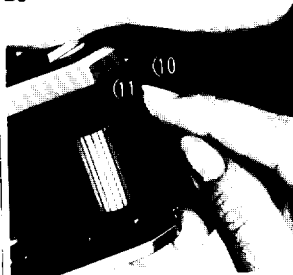


Illust. 19. The Pentax MX Standard Back Cover is available as an optional accessory.

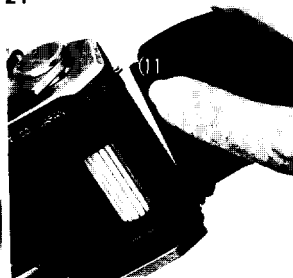
REMOVING THE BACK COVER

Illust. 20. Open the Back Cover (10) all the way and pull down on the latch (11) to free the cover from the camera body upper eyelet. Next, move the cover slightly to the right and lift to free it from the lower eyelet. If the Data Recording Back is replaced with the accessory Standard Back Cover, your camera will become identical to the MX, fitting into the MX soft case (optional accessory).

20

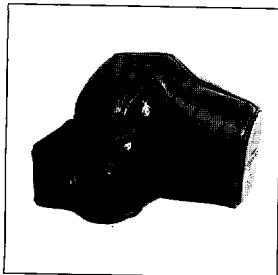


21



Illust. 21. When replacing the Back Cover, insert the cover lower latch pin into the camera body lower eyelet. Next, while holding down the upper latch (11), align with upper eyelet, and release latch to secure cover to camera body.

22



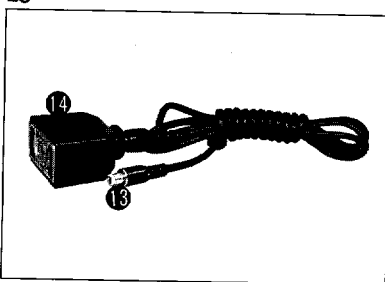
DATA MX SOFT CASE

Illust. 22. A soft case is available for the Pentax Data MX. The case offers protection to the camera and can be easily and quickly removed. The lens section and Data Recording Unit section have separate detachable covers.

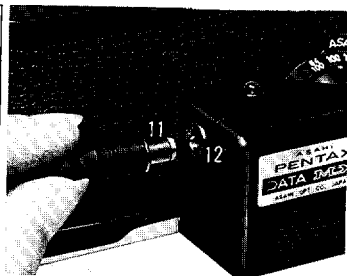
DATA MX BATTERY CORD

Illust. 23. This 1.2m cord makes it possible to use Data MX in temperatures below -5°C .

23



24

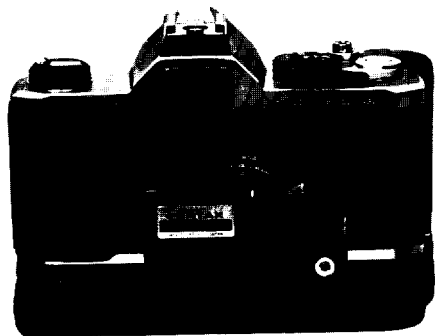


Illust. 24. Most batteries lose their power in temperatures below 0°C , but with the Battery Cord and its battery case, the Data Recording Unit battery can be kept warm in a pocket while remaining connected to the unit. Remove the protective cover from the External Battery Socket (12) and insert the plug (13) of the Battery Cord. Remove the battery from the Data Recording Unit, and place it in the battery case (14) of the Battery Cord. Keep the battery case in a warm place such as your pocket.

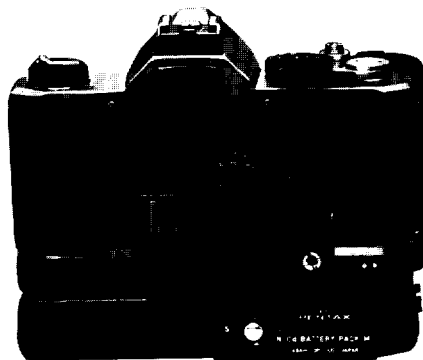
This feature will enable you to use the Data Recording Unit on ski trips, sub-zero scientific expeditions, and the like.

UTILIZATION WITH WINDER MX & MOTOR DRIVE MX

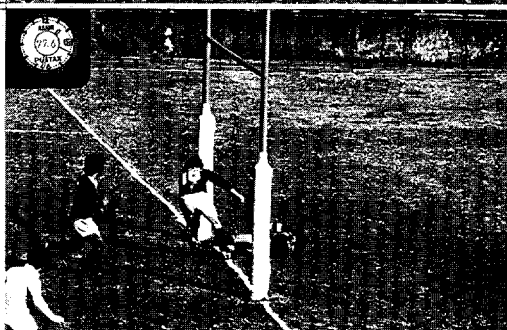
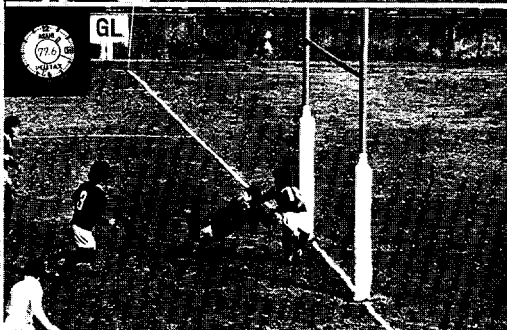
25



26



Illust. 25 & 26. The flash duration of the Data Recording Unit illumination lamp is extremely short, making it possible to freely record data whether used at up to 2 fps with Winder MX or up to 5 fps with Motor Drive MX. The four frames on the following page were all taken in the brief span of one second and illustrate the full utilization of the remarkable capabilities of the Pentax Data MX.





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