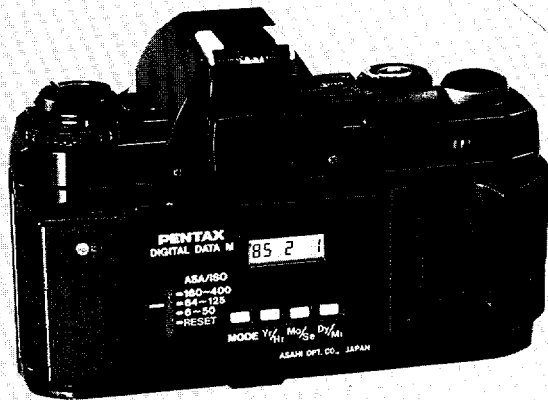


PENTAX®

DIGITAL DATA M



The Pentax Digital Data M utilizes an LCD digital chronometer. Unlike other mechanical dial units, the Digital Data M enables you to record the year/month/date, and time of day on your photographs without having to use troublesome dials or knobs.

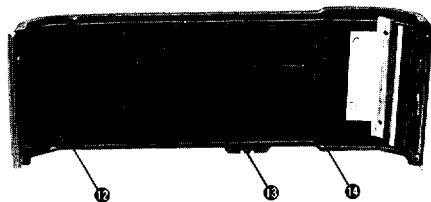
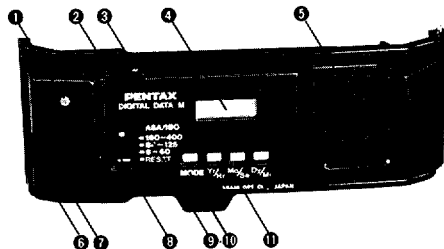
The Digital Data M is easily interchangeable with the standard back of your camera, and can be used with the Pentax 35mm SLR's: ME, MV/MV-1, ME Super, MG, ME-F, Super A/Super Program and Program A/Program plus.

Please read this instruction manual carefully before you begin to use your new Pentax Digital Data M in order to avoid possible malfunction or accident caused by misuse.

Notes:

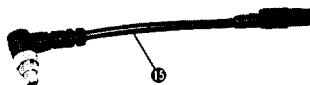
- Users of ME Super, ME, MV, or MV-1 will need to use the Pentax synchro cord to connect their Pentax Digital Data M, as these models do not have direct electrical contacts compatible with the Digital Data M.
- The abbreviations "LED" and "LCD" stand for "Light Emitting Diode" and "Liquid Crystal Display," respectively.

DESCRIPTION OF PARTS



- ① Battery check button
- ② Synchro cord socket
- ③ LED indicator
- ④ Liquid crystal display (LCD)
- ⑤ Memo holder
- ⑥ Battery compartment latch
- ⑦ Battery compartment cover
- ⑧ ASA film speed slide switch
- ⑨ ASA film speed indicator
- ⑩ Mode selection button

- ⑪ Modification button — Yr (year)/Hr (hour), Mo (month)/Se (second), Dy (day)/Mi (minute)
- ⑫ Back cover release pin
- ⑬ Electrical contacts for direct cordless synchronization
- ⑭ Data recording aperture
- ⑮ Exclusive synchro cord for Digital Data M (used when synchronized with cord)



PRECAUTIONS WHEN USING STROBE FLASH

- When the Digital Data M is used with an electronic flash mounted on the camera's hot shoe and if you depress the TEST button of the flash, it will cause the data to be imprinted. In such a case, be sure to depress the TEST button with the data mode set to "- - - -" (no data recording mode).
- If the data back is used with certain Pentax auto flash units (Autorobo or AF 16 unit), there may be instances when the recording mechanism will not function at all. If this should happen, consult your Pentax Service Center.
- Best results are obtained when subject matter in the picture's lower area is dark as data printed against a light background is difficult to read.
- It is not advisable to use other maker's strobe units with the Digital Data M as this could result in malfunction of the data back.

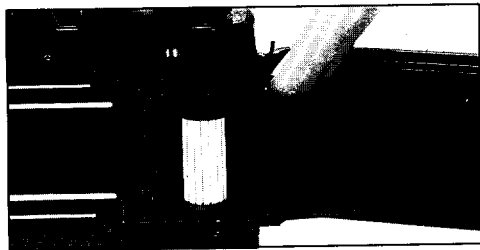
BATTERIES

- The Digital Data M is powered by two pieces of either of the following batteries: LR44 alkaline battery or SR44 (G13) silver-oxide battery. Be sure that the correct voltages are used.
- Change both batteries at the time of battery replacement. Do not mix battery types or old and new batteries as this lowers performance and increases the possibility of leakage and subsequent damage.
- When inserting batteries, make certain polarity is properly aligned.
- Also, be sure to remove batteries when not using the data back for long periods of time to insure against leakage and camera damage.

ATTACHING DIGITAL DATA UNIT

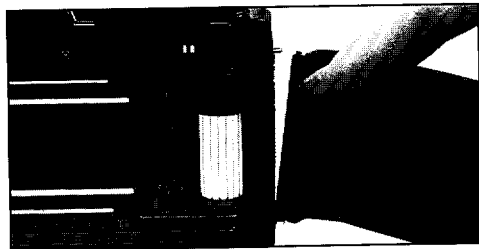
Removing standard camera back

Open standard camera back and press back cover release pin (indicated by arrow). Pull outward from the top until it comes loose. (Be sure to place camera back where it will not be easily damaged.)



Attaching Digital Data M unit

Insert the bottom pin of the data unit into ring at the base of the camera. While pushing the back cover release pin downward, match top pin with ring at top. Release back cover release pin so that the Digital Data Back unit hinges between the two rings.

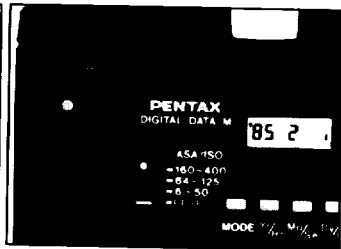
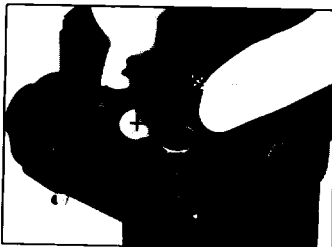
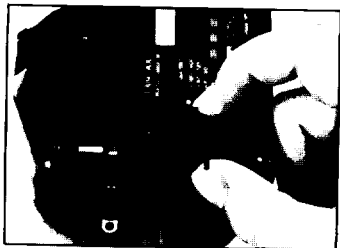


INSERTING BATTERIES

Slide battery compartment latch until cover comes off.

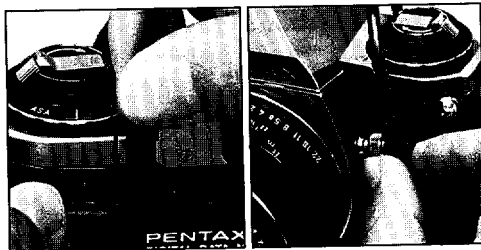
Insert two batteries with plus (+) marking facing outwards. Replace battery compartment cover by fitting the two tabs indicated by the arrow in the attached picture into notches and push cover

to close. At this time, Yr/Mo/Dy will appear on the LCD display. Check that displayed date is accurate and if not, adjust accordingly.



SYNCHRONIZING WITH CAMERA

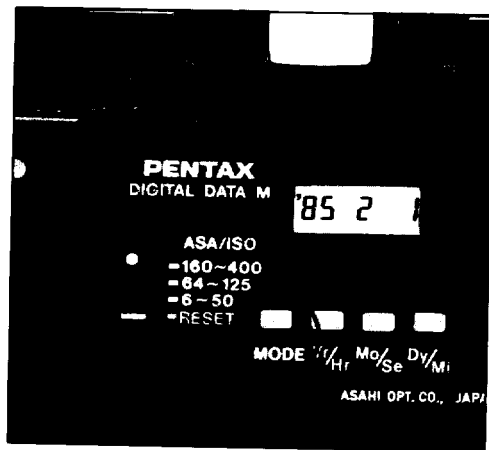
The Pentax MG, ME-F, Super A/Super Program and Program A/Program Plus models are provided with electric contacts enabling cordless combination with the data unit. The ME Super, ME, MV and MV-1 cameras require the cord for use with the Digital Data M in order to effect synchronization.



For ME Super and ME: Open the cord socket cover of data back and insert cord plug completely (data back side) into cord socket. Plug other end (camera side cord plug) into X-sync socket on camera body and tighten collar.

For the MV and MV-1 (no sync socket), the accessory Hotshoe Adapter 2P (sold separately) is required for synchronization. Mount Hotshoe Adapter on camera hotshoe and connect the sync cord of the Digital Data M to the X sync socket on the front of the adapter unit.

SETTING DATA



- To set data, set ASA/ISO film speed slide switch to "RESET" position.
- When batteries are in the camera, the Day/Month/Year mode appears automatically. However, the indications are random or not always correct.
- Three modes, "year/month/day," "hour/minute," and "-----" (blank) are consecutively displayed.

Year/Month/Day Mode

Hour/Minute Mode: The hyphen (—) indicating "second" placed between the hour and minute, flickers at one-second intervals.

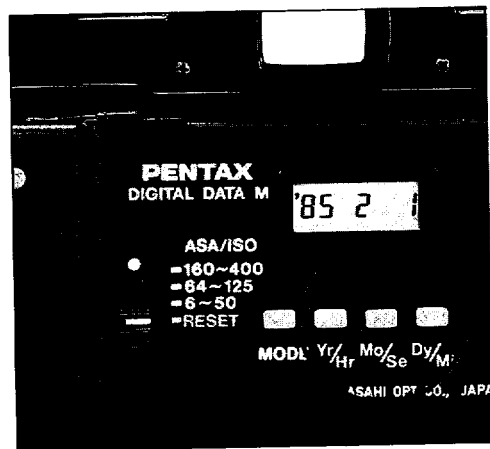
"-----" (blank) Mode: Use this mode for no data printout.

MODIFICATION BUTTONS

Yr/Hr = Year/Hour Mo/Se = Month/Second

Dy/Mi = Day/Minute

Pressing each button once advances the figure displayed one at a time. For fast advance, continue pressing button and in one to two seconds, figure runs consecutively.



TO MODIFY DATE INDICATIONS

To modify date to February 1, 1985:

Slide ASA/ISO film speed selector to "RESET," then

1. Set indications at the Yr/Mo/Dy mode.
2. To set year, push Yr/Hr modification button (lower two digits display, i.e., "85"—1985).
3. To set Month, push Mo/Se button.
4. To set Day, push Dy/Mi button.

Date mode

Yr/Hr

Mo/Se

Dy/Mi

'80 12 10

Yr Mo Dy

'85 12 10

'85 2 10

'85 2 1

TO MODIFY TIME

Using 3:30 pm as an example: First set ASA film speed selector to "RESET." Then perform the following:

1. Adjust display to Hr/Mi mode.
 2. Obtain correct time from broadcast signal. First modify the second. Press the Mo/Se button and flickering second (—) indicated between "hour" and "minute" is set precisely.
 3. To set the minute, press the Dy/Mi button to change display to read "30."
 4. To set hour, press Yr/Hr button until "15" appears. The 24-hour clock is used for time indication, as 1500 for 3:00 pm.
- The hyphen (—), which indicates seconds, flickers every second and if you click the shutter while it is appearing, it will print on the photograph.

Time mode

Mo/Se

Dy/Mi

Yr/Hr

'85 2 1

Hr

(Se)

Mi

0 - 00

0 - 30

15 - 30

TEST FOR PROPER SYNCH CORD CONNECTION

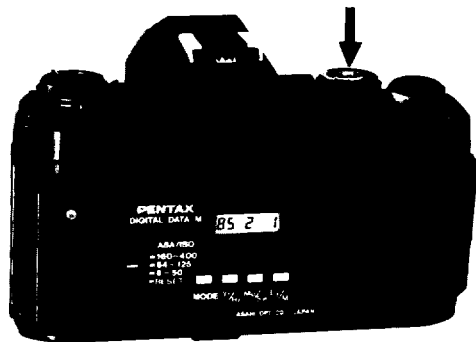
Before loading film, click shutter with the data unit closed, to confirm the battery check LED lamp lights. The LED lighting for every shooting indicates batteries are still usable.

- For confirmation of normal flashing of the data recording lamp, check directly the data recording aperture.

In the following events, the LED indicator fails to light.

1. The ASA/ISO film speed slide switch is set at "RESET."
2. The (- - -) mode displays.

Reset the slide switch and/or mode selector to other position. If the LED lamp still won't light, check both end of cord connecting the Digital Data M and the camera (ME Super, ME, MV or MV-1), or possible dirt on cordless electric contacts of both camera (ME-F, MG, Super A/Super Program and Program A/Program Plus) and data back.

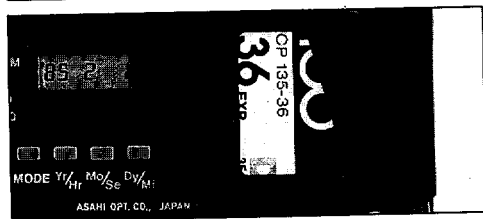
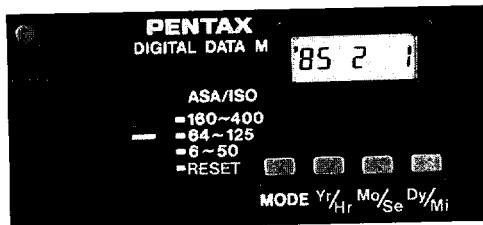


INDEXING THE ASA/ISO FILM SPEED

Set the ASA/ISO film speed slide switch to correspond to the ASA/ISO rating of the film in the camera. This indexing can be used for both color and B/W film. Infrared film is not recommended for use with this data unit.

Combined Grip and Memo Holder

Remove the top of the film package of film in camera and insert it in the memo holder on the data unit. This serves as a constant reminder of data relating to film loaded in camera. This holder doubles as a grip for easier manipulation of the camera and reduces shake.



SHOOTING PICTURES

Select the desired mode and take pictures in the usual way. Select any shutter speed. The LED indicator of the Digital Data M lights when the shutter button is depressed, indicating normal operation. If no data inscription is required, set the mode to " - - - - - " (blank).

When operating in subfreezing temperatures, occasionally the data unit doesn't function properly and the LED does not light because of temporary battery failure and data is not recorded. In this situation take appropriate measures to warm the camera.

This Digital Data M can be used for continuous shooting in combination with the auto winder. Max. 2 fps shooting is possible.

It is desirable to keep the lower portion of the frame somewhat dark as data against a light background tends to wash out.



NOTE ON SYNCH CORD OF DIGITAL DATE M

If you want to remove the synch cord of the Digital Data M during film rewind or shooting, be sure to set the mode at (- - - -). If set at Yr/Mo/Dy or Hr — Mi, the data will be accidentally imprinted. To prevent this, you may also attach a friction tape supplied, to a portion on the camera's bottom cover where the Data's cordless contact pins hit.

REPLACING BATTERIES

If the LED fails to light even with battery check button depressed, this indicates batteries are no longer usable. Replace them with new batteries. A special device in the unit allows the Digital Data M to continue functioning and to continuously display data for approximately a minute after batteries are removed. When unit is in the "Yr/Mo/Dy" mode, the display will continue while you are changing batteries, and data can be used without adjusting.

However, if display is in the Hr/Mi mode, it must be appropriately adjusted.

PRECAUTIONS RELATING TO LIQUID CRYSTAL DISPLAY

- Do not keep or place Digital Data M in a high temperature location for long periods of time as this may adversely affect the LCD. And do not put it in an enclosed car or a place near a heating unit.
- When the LCD is exposed to a temperature of around 60°C, it may darken; however, it will return to its normal color if its temperature is lowered to normal.
- In freezing conditions of under 0°C, the liquid crystal display tends to slow up in its response to electric signals. This is peculiarly characteristic of liquid crystal and does not indicate any trouble with the liquid crystal itself.

SPECIFICATIONS

- Type:** Digital data recording camera back mounted on Pentax MG, ME-F, Super A/Super Program and Program A/Program Plus (direct cordless synchronization); ME, MV/MV-1 and ME Super (synchronization via Pentax exclusive cord).
- Method of mounting:** Mounted at the rear of the camera, in place of the standard back.
- Data recording system:** An internal recording lamp projects and records information onto the reverse side of film during photographic operations by utilizing 6-digit liquid crystal characters (each 7-segment).
- Data imprinting modes:** Soft-touch push buttons used to set the unit to any of three modes: "Yr/Mo/Dy" (Year/Month/Day), "Hr/Mi" (Hour/Minute), or "- - - -" (blank). The year, leap year, and months (odd or even number of days) automatically adjusted by the data unit.
- Year/Month/Day mode:** Year: "80" to "19" which stand for the years 1980 to 2019. An apostrophe is imprinted beside year numbers "80" to "09," but not for the other years in the number series.
Month: "1" to "12".
Day: "1" to "31".
- Hour/Minute mode:** Hour ("0" to "23"), Minute ("00" to "59").
- Character size:** Each character measures approximately 0.7mm high by 0.4mm wide.
- Data setting:** Three soft-touch buttons controls data imprinting in the following configurations:

	Yr/Hr (Year/Hour), Mo/Se (Month/Second), and Dy/Mi (Day/Minute). The data setting is advanced by one digit for each press of a button. For continuous, fast data advancing, maintain pressure on the button; in less than a second, rapid advance will occur.
Liquid crystal display:	Data settings displayed in a 7-segment, 6-digit liquid crystal array on the data unit.
ASA/ISO film speed scale:	Three steps provided 6-50, 64-125, and 160-400 for both color and black and white.
Power source:	Two LR-44 alkaline or SR-44 (G13) silver oxide batteries required to power the unit.
Battery check:	The battery check button is pushed to determine battery condition. Failure of the red LED indicator to light indicates worn out batteries.
Number of recordings:	The batteries will enable about 5,000 recordings to be made; about one year of normal operation.
Recording confirmation:	The LED indicator will go on as the shutter is tripped to confirm that data has been recorded.
Simultaneous strobe operation:	Possible when the strobe is connected to the camera hotshoe. Note: When checking normal flash operations, set the mode select button to "-----" (blank) before pressing the test button of the flash unit.
Synchronization with auto winder:	Continuous shooting possible in synchronization with the data unit (max. 2 fps)
Dimensions and weight:	135(W) x 53(H) x 26(D)mm; 73g (without batteries).

This picture taken
on May 5, 1982



EXCLUSIVE SOFT CARRYING CASE

An exclusive soft case is available to fit your camera when it is equipped with the Digital Data M. The case can also be used for the Pentax ME-F, ME Super, ME and MG. However, although the body section of this case will fit the Pentax MV-1 and MV when mounted with the Digital Data M unit, the front section covering the lens is not suitable as it is designed for models that cordlessly connect with the data unit. At present, no front case is available for the MV-1 or MV when it has the Hotshoe Adapter 2P mounted on the camera's hotshoe.





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