

WILSONWERKS ARCHIVES

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SPECIFICATIONS

Type: 35mm SLR camera with multi-mode automatic exposure controls, electronically-controlled focal plane shutter, and open-aperture center-weighted Through-The-Lens metering.

Exposure Modes: Programmed AE, Aperture-Priority AE, Metered Manual and Programmed Auto Flash modes.

Exposure Control Mode Setting: By using combination of settings on shutter dial and aperture ring of "A" Series lenses.

Film: 35mm film.

Format: 24 × 36mm.

Lens Mount: Pentax KA Bayonet (Pentax K bayonet mount with electrical contact).

Shutter: Seiko MFC-E5 vertical-run metal focal-plane shutter, automatic exposure and manual settings. Electronically-controlled speeds from 15 to 1/1000 sec. and B. Electro-magnetic shutter release with release button lock.

Exposure Indication in Viewfinder: Liquid Crystal Display (LCD) for automatic and manual shutter speeds, automatically set lens apertures, flash-ready sign with dedicated flashes, shutter-speed setting error warning, battery life warning, and Programmed AE indication (P).

Flash Synchronization: Hotshoe (X-sync contact, dedicated flash contacts), X-sync at 1/100 sec.

Dedicated Automatic Flash Coupling: Automatic setting of 1/100 sec. sync speed with dedicated automatic flash units. Slower than 1/100 sec. sync flash photography is possible at Manual mode setting.

Self-timer: Electronically controlled, delay time indication by flashing lamp, approx. 12 sec. delay time, possible to cancel at any time; initiate process by pressing shutter release button.

Viewfinder: Silver-coated pentaprism finder with split-image/microprism focusing screen; shows 92% of the picture area, 0.82× magnification with 50mm lens at infinity; -1.1 Diopter eyepiece.

Mirror: Back-swing type instant-return mirror.

Film Loading: Magic-needle loading.

Film Transport: Single-stroke, rapid wind lever with 135° throw and 30° stand-off angle; Accepts Winder ME II, Motor Drive A.

Exposure Counter: Additive type, automatic resetting. Automatically sets shutter-speed at 1/1000 sec. up to the first frame on the counter when shutter dial is set at AUTO or M.

Film Rewind: Crank type.

Exposure Metering: Open aperture, Through-The-Lens, center-weighted, average area metering system with GPD cell.

Metering Range: EV 1 (f/1.4, 1 sec.) — EV 18 (f/16, 1/1000 sec. or f/22, 1/500 sec.) with 50mm f/1.4 lens and ISO 100 film.

ISO Range: 6 — 3200

Exposure Compensation: Exposure compensation dial indexed at 4×, 2×, 1×, 1/2× and 1/4×.

Depth-of-Field Preview: Via depth-of-field preview lever when aperture set manually.

Power Source: Two 1.5V alkaline or silver-oxide batteries, or one 3V lithium battery.

Metering Circuit Main Switch: Switched on by shutter release button and remains on for about 30 sec., shut-off by built-in timer.

Battery Warning: When batteries grow weak, LCD alternately flashes exposure designations and 'ooo' sign. When batteries exhausted, LCDs go blank and shutter locks.

Back Cover: Standard camera back with spring catch, built-in memoholder/grip, fully interchangeable with Dial Date ME and Digital Data M.

Size & Weight: 131mm(W) × 87mm(H) × 47.5mm(D),

490g (without batteries) (5.1" × 3.4" × 1.9", 17.3oz.)

PENTAX

PROGRAM PLUS

Fully-automatic program; four exposure modes for creative freedom.



PENTAX®

Asahi Optical Co., Ltd. C.P.O. 895, Tokyo 100-91, Japan.

Asahi Optical Europe N.V. Weveldlaan 3-5, 1930 Zaventem Zuid-7, Belgium.

Pentax Handelsgesellschaft mbH. Postfach 54 0169, 2000 Hamburg 54, West Germany.

Pentax U.K. Limited. Pentax House, South Hill Avenue, South Harrow, Middlesex HA2 0LT, U.K.

Pentax France S.A. 72-76 Rue Paul, Vaillant Couturier, 92300 Levallois Perret, France.

Pentax Nederland Spinveld 25, 4815 HR Breda, The Netherlands.

Pentax (Schweiz) AG. Industriestrasse 2, 8305 Dietlikon ZH, Switzerland.

Pentax Svenska AB Hornsgatan 50A, 11721 Stockholm, Sweden.

Pentax Corporation 35 Inverness Drive East, Englewood, Colorado 80112, U.S.A.

Pentax Canada Inc. 1760 West 3rd Avenue, Vancouver, B.C. V6J 1K5, Canada.

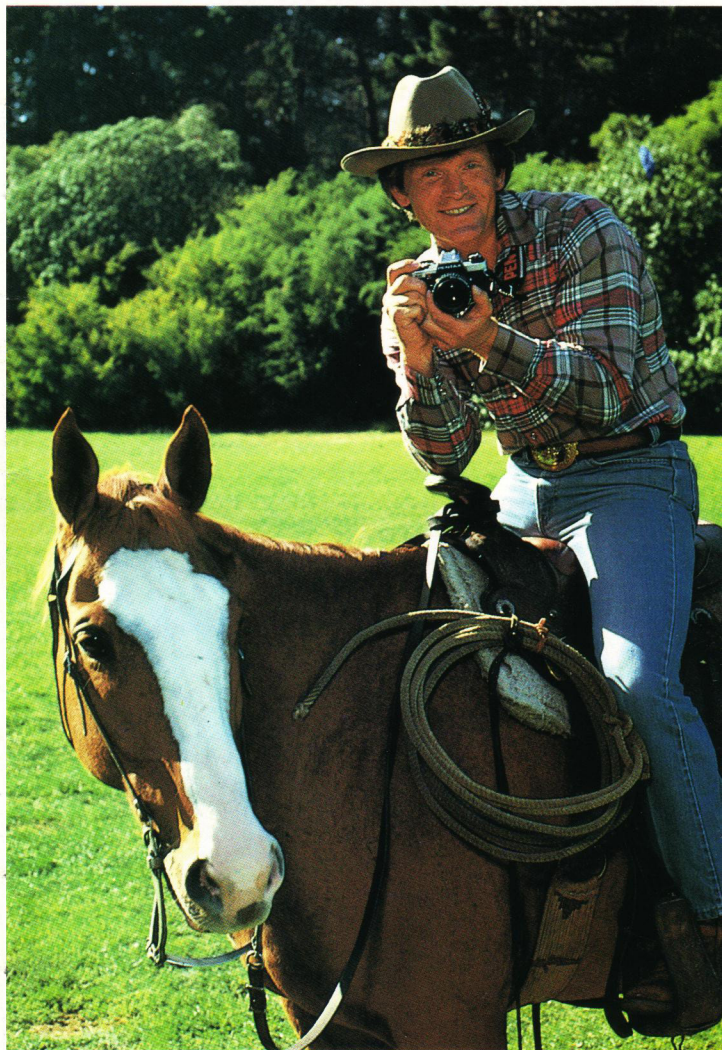
Asahi Optical Brasileira R. Capitão Antonio Rosa 376, Sala 121 Ed. PBK, São Paulo, Brazil.

Specifications are subject to change without notice.

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Photography is a way of sharing what we see and feel. That's the design philosophy that formed the people-oriented Program Plus. To help you shoot on the spur of the moment, the Program Plus is swift and simple. Yet it's also sensitive and elegantly engineered to help you catch the special nuance that gives the moment meaning in your life.

The Program Plus offers you a choice of four exposure modes. For error-free ease, use Programmed Auto or Programmed Auto Flash. To add a personal creative touch, shift into Aperture-Priority AE or Metered Manual. The beauty of the Program Plus is that it's easy enough for everyone to use with pleasure. Yet versatile enough to express the subtlest feelings about the faces and places that make your life unique.



The great thing about the Programmed AE mode is that it lets you respond naturally. You don't have to stop and think, to adjust dials or worry about numbers. You can just see and snap. When the scene in the viewfinder suits your eye, simply press the shutter release button and you've got it.

You'll find that program is the most convenient mode for all kinds of casual photography. When you want to snap the shutter before the subject moves or the smile fades or the action stops, go program.

PROGRAMMED AE



Here's what the viewfinder shows you in the Programmed AE mode: 'P' for program, plus the shutter speed and aperture combination that the camera has automatically selected to suit the lighting conditions. To put the camera in program, turn both the lens and the shutter dial to the 'A' (auto) setting. That's all there is to it. Now, each time you press the shutter, the camera will automatically and instantly make all exposure decisions for you.

P 250

F 11

APERTURE-PRIORITY AE

Aperture-Priority AE lets you arrange your photo like a painter. By choosing a wide aperture, you can make a face stand out clearly against a soft, unfocused background. By choosing a small aperture, you can bring both the subject and the surroundings into sharp focus — a good idea for travel photos. And by selecting intermediate apertures, you can emphasize precisely those details that have meaning to you.

Once you've selected the aperture, the camera automatically picks a shutter speed to go with it. This system is almost as fast and convenient as program, yet it gives you added creative control.



500

In the Aperture-Priority AE mode, the left LCD panel of the viewfinder shows you the shutter speed that the camera has automatically selected to go with the aperture you have set on the lens. To put the Program Plus in the Aperture-Priority AE mode, set the shutter dial on auto and set the lens to any aperture except 'A' (auto). If you want a faster shutter speed, change to a wider aperture.

YOUR PERSONAL
PERSPECTIVE

METERED MANUAL

Sometimes you see a scene in a way that is different from everybody else. There may be a special quality of light, an unusually fluid motion, a special richness of color that you want to catch. Often, the Metered Manual mode helps you express these impressions.

You set both aperture and shutter speed yourself. The viewfinder shows the conventional setting, but you may choose to disregard it. You may deliberately over- or under-expose or choose a shutter speed that will blur a moving subject instead of freezing it.

Of course, it takes a little time and practice to master the manual mode. But the extra effort may be justified by the original effects you achieve.



In the Metered Manual mode, the left LCD panel of the viewfinder shows the shutter speed. The right panel shows whether you are over or under the normal exposure by displaying numbers from +3 to -3. +3 means three stops over; -3 means three stops under; ± 0 means right on. To put the camera in the Metered Manual mode, set the shutter dial to 'M' and the lens to any aperture except 'A'.

;

± 0

EASY AS TURNING
ON THE LIGHTS

PROGRAMMED AUTO FLASH

Just turn the flash unit on. And if your camera is in the program mode, everything will be automatically adjusted for programmed flash photography. Aperture, shutter speed and flash intensity will be regulated to make your picture come out just right.

Programmed Auto Flash is not only easier and faster. It also helps you eliminate the errors that ruin so many flash photos. You'll enjoy this swift, simple flash system. Because some of the nicest things happen after the sun goes down.



In the Programmed Auto Flash mode, the left viewfinder LCD panel shows shutter speed (100), and the right panel shows aperture. There are also indications for flash readiness (⚡) and correct flash exposure. To put the camera in the Programmed Auto Flash mode, set the lens and shutter to auto, then mount your dedicated Pentax flash unit in the hotshoe. Now you can leave everything else up to the camera.

USER-FRIENDLY VIEWFINDER

The viewfinder of the Program Plus serves as your guide to taking photos which are sharply focused and properly exposed.

To make focusing easier and faster, the viewfinder is extra bright and features a three-way central focusing spot.

At the bottom of the viewfinder are two Liquid Crystal Display (LCD) panels that give you a wide variety of exposure information. They show which of the camera's four modes you're using; they display aperture, shutter speed or both; they signal flash readiness and correct flash exposure; they warn against errors in setting camera controls and alert you to lighting situations which are beyond the metering range.

Comprehensive yet easy to understand, these displays not only help you take better pictures, they also increase the pleasure of owning and using the Program Plus.



Shutter Speed LCD

Maximum shutter speed: 1/1000 second.

In Programmed AE and Aperture-Priority AE modes, the shutter speed varies steplessly. The display shows the speed closest to the one actually selected.

2 seconds (" stands for second).

In Programmed AE mode, the letter "P" is displayed in front of the shutter speed.

Bulb exposure

This error mark appears when there has been a mistake in setting controls.

Aperture LCD

A total of 22 different apertures are displayed in half-stop increments. In the Programmed AE mode, the aperture is varied steplessly. The aperture displayed is the one closest to that which has actually been selected by the camera. The aperture is not displayed in Aperture-Priority AE and Metered Manual modes.

In the Metered Manual mode, under-, over- or correct exposure is indicated by numbers from +3 to -3. ± 0 means correct exposure.

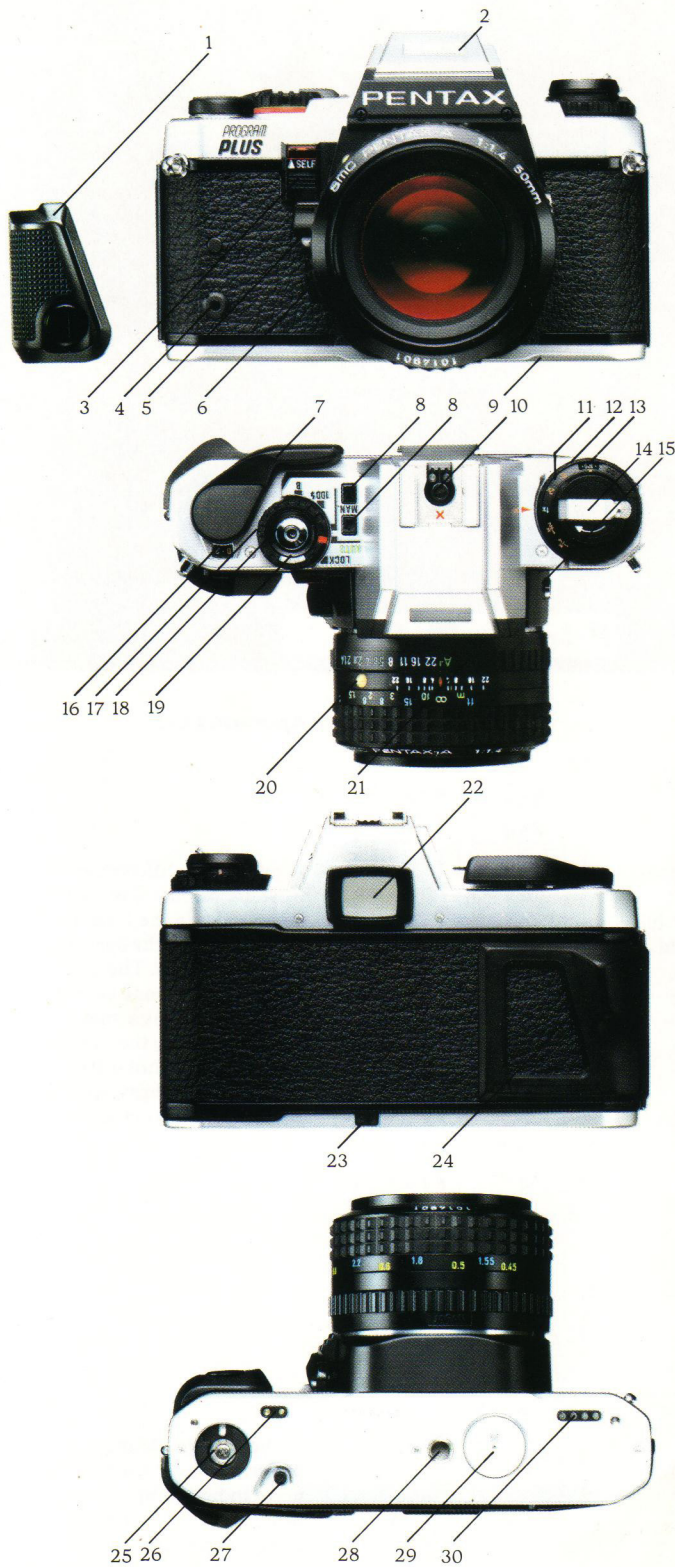
In Programmed Auto Flash mode, \downarrow indicates that the flash is recycled and the shutter has been automatically set to flash synchronization speed.

Flickering \downarrow mark after flash denotes that the unit has discharged the proper amount of light.

Battery warning. When battery voltage is low, this mark and normal exposure data alternate to advise you that the battery should be replaced.

1000	F12
500	F14
250	F17
125	F2
60	F2.5
30	F2.8
15	F3.5
8	F4
4	F4.5
2	F5.6
1	F6.7
2"	F8
4"	F9.5
8"	F11
15"	F13
	F16
	F19
	F22
P	F27
B	F32
100 \downarrow	F38
\downarrow	F45
	± 0
$\bullet\bullet\bullet$	$\bullet\bullet$

THE CAMERA



Compact and Casual. The Program Plus is probably the lightest camera offering four exposure modes. It is certainly one of the lightest SLRs on the market today. In choosing a camera, compactness should be an important consideration. A heavier model is more likely to stay home on a shelf, while a light camera can accompany you throughout your day.

Stylish and Sturdy. A camera, of course, is a device for looking at the world. But Pentax believes that the camera itself should be pleasant to look at. And the Program Plus is just about the most stylish camera we've ever designed. Take a careful look around the body of the Program Plus, and you'll enjoy an ensemble of sleek lines and sophisticated touches.

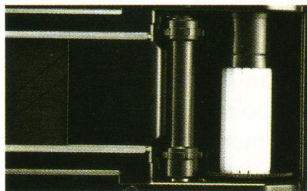
But don't let the refined lines fool you. The Program Plus is a rugged camera, built for years of steady use and top performance. You can hike with it, travel with it, give it to the youngest family members and feel confident that it will outlast your expectations.

Special Mount for Program Lenses. The Program Plus features the newest Pentax bayonet mount. Called the K_A mount, it has special electronic contacts which enable the camera to detect and control the aperture of the lens. It is this mount that permits fully-automatic program operation.

However, the camera can only control lenses that have their own electronic contacts. All A Series lenses have such contacts and can be used for Programmed AE with the Program Plus. Other Pentax lenses do not have contacts for automatic aperture control. Thus they cannot be used for Programmed AE. But they can be used in the camera's other modes, Aperture-Priority AE and Manual.

- | | | |
|--------------------------------|--|--|
| 1. Grip SuperA | 12. ISO film speed dial | 22. Viewfinder eyepiece |
| 2. Illuminating window | 13. ISO film speed scale | 23. Cordless contact terminal |
| 3. Self-timer lever | 14. Rewind crank/Back cover release knob | 24. Memo Holder/Grip |
| 4. Grip mount | 15. X-sync terminal | 25. Winder/Motor Drive contact coupler |
| 5. Preview lever | 16. Exposure counter | 26. Connector |
| 6. Lens release lever | 17. Shutter dial | 27. Film rewind button |
| 7. Film wind lever | 18. Shutter release button | 28. Tripod socket |
| 8. Shutter speed select button | 19. Shutter auto lock button | 29. Battery compartment cover |
| 9. Bevelled bottom edge | 20. Lens alignment node | 30. Connector |
| 10. Hotshoe | 21. Aperture auto lock button | |
| 11. Exposure compensation dial | | |

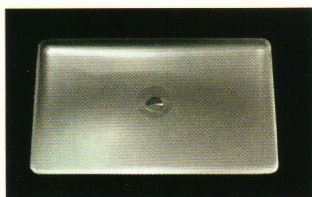
NINE EXTRAS



Magic Needle Film Loading. For fumble-free film loading. Simply insert the film leader between any of the flexible plastic rods on the take-up spool. They grip the film securely on the first try, letting you load film in seconds.



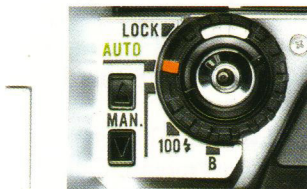
Advance to First Frame. After loading film, you have to advance two frames before taking pictures. This can be slow with a slow shutter speed. So the Program Plus releases the shutter at 1/1000 sec. until the film counter reaches the first frame.



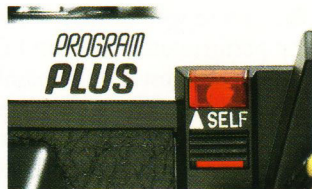
Brighter Viewfinder. The viewfinder of the Program Plus is engineered for easier focusing. A special treatment has been applied to the viewfinder screen to significantly improve clarity. This Clear Bright Matte gives you the brightest possible view of the subject because the brighter the viewfinder, the easier it is to focus.



Exposure Factor. Below the film rewind crank, you'll find a dial that lets you adjust the exposure for special situations such as back-lighting. To put more light on your subject, use the 2× or 4× setting. For less light, use the 1/2× or 1/4× setting.



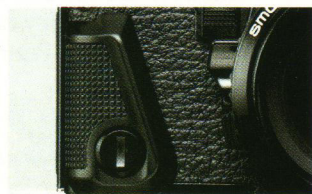
Pushbutton Control. To set shutter speeds manually all you have to do is press a button. The front button makes the speed faster, and the rear button makes the speed slower. This system is much faster than the conventional shutter speed dial.



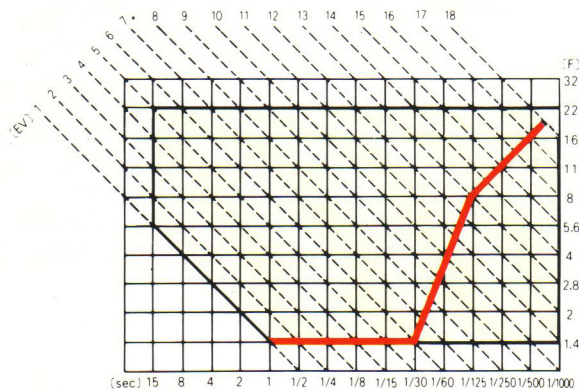
Self-Timer. Just slide open the self-timer and press the shutter release. You now have about 12 seconds to get in front of the lens before the camera automatically snaps a picture. A red LED blinks to help you count down the seconds.



Preview Lever. When you want to check exactly how much of the picture area is in focus, use the depth-of-field preview lever. All you have to do is look through the viewfinder while pressing the lever.



Grip SuperA In addition to the built-in thumb grip on the back of the Program Plus, you also have an attachable front grip. The combination of these two grips gives you a rock-solid hold on the camera.



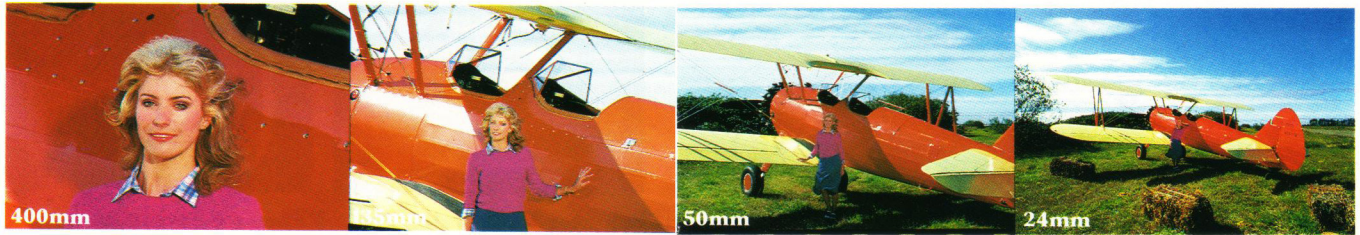
Program with 50mm f1.4 lens, ISO 100 film.

High-Speed Program. In photography, a program is a sequence of aperture-and-shutter-speed combinations. There are essentially two ways to make these combinations. One is to choose small apertures and slow shutter speeds. This type of program results in greater depth of field.

The other way, the

Pentax way, is to give preference to shutter speeds which are fast enough to prevent 'camera shake' and the blurred photos which result from it. The Pentax program is designed to let you take handheld shots with confidence under the widest possible range of light conditions. It's the logical choice for spontaneous photos.

THE PENTAX LENS SYSTEM



The high-quality Pentax lens system gives you 60 more reasons to choose a Pentax camera. Pentax has been making lenses for more than 60 years. In the process, we've acquired an international reputation for leadership in optical technology. When independent experts run comparative lens tests, Pentax invariably comes out looking very, very good.

Pentax now offers you over 60 lenses ranging from fish-eye, 15mm ultra-wide angle to 2000mm super-telephoto. In between, you'll find a richly varied system that will meet your every need throughout a lifetime of photography.

Super-Multi-Coating (SMC). An important advantage of all Pentax lenses is Super-Multi-Coating. In Pentax SMC lenses, optical surfaces are treated with a 7-layer, ultra-thin coating of rare elements with anti-reflective properties. This treatment greatly increases the lens' ability to transmit light. It also improves contrast over the entire

image field, results in remarkably accurate color reproduction and virtually eliminates ghost images and flare. In other words, Pentax SMC lenses gives you brighter, sharper, more vibrantly colorful photos.

The Zoom Boom. Zoom lenses are enjoying a boom in popularity. They suit the mood of today's photographers by providing versatility, portability and casual convenience. All with excellent optical quality and at a reasonable price.

Since the Program Plus is designed for spontaneous shooting, you may find that a zoom is the perfect partner for the camera. A zoom lens lets you respond to all sorts of situations without carrying the weight of extra lenses, or taking the extra time for lens changes.

Pentax offers a wide choice of new zooms including the 28-135mm model. This lens covers almost all your picture-taking needs with macro, wide-angle, standard and telephoto capabilities. It's also light, compact, fast and affordable. If you can only choose one lens, this could be it.



AUTOMATIC MEMORY



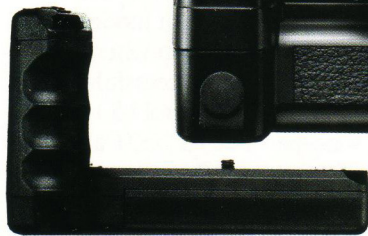
ACTION PHOTOGRAPHY

Motor Drive A.

Single-frame or continuous shooting up to 3.5 frames per second.

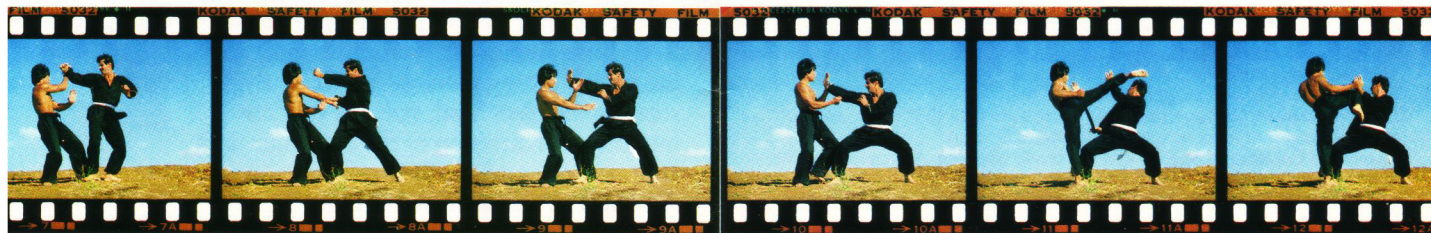


Winder ME II. Single-frame or continuous shooting up to 2 frames per second.



There are lots of subjects that won't sit still. They range from active children and household pets, to Formula-1 racing cars and birds on the wing. The best way to photograph such speedy subjects is with a motor drive or winder. By automatically advancing film at the rate of one or more frames per second, these accessories give you dramatic, kinetic stop-action shots.

Remote Control System. You can turn your camera into a creative robot by using a remote control system. You hold the transmitter in your hand and mount the receiver on the camera. Then you can trigger camera operation via infrared pulses from up to 60 meters away. And with the camera in any automatic mode, you can be sure even remote control photos will be correctly exposed.



You may begin by enjoying the error-free ease of the Program Plus. But you'll soon discover that the camera is also highly versatile, and that it acts as the key to the Pentax system of professional quality accessories. Whatever turn your photographic interests take, you'll find precisely the accessories you need in the Pentax system.

If you become interested in close-ups, for example, Pentax provides a wide array of accessories for macro-photography, including auto bellows and extension tubes,

ENDLESS POSSIBILITIES

fine-focus adjusters and close-up attachment lenses, plus slide copiers and macrophoto copy stands.

To make the Program Plus even more powerful than the human eye, there are adaptors for attaching the camera to a telescope or microscope, as well as a 90° Mirror Adaptor for candid shooting and a Stereo Adaptor for producing three dimensional slides.

