

# PENTAX

## PZ-20

*NEW* 

Autofocus SLR with Picture Modes for Easy Access to Advanced Shooting Techniques





# Tap Into Advanced Shooting Techniques.

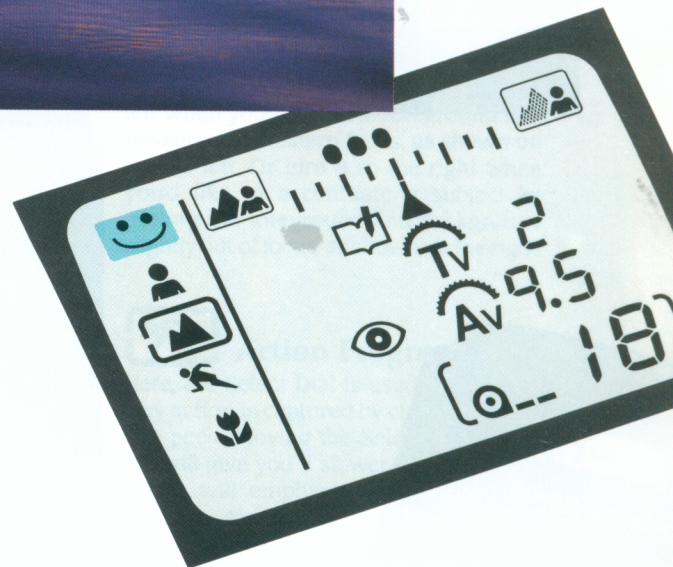
Everyone has seen photographic images with which they've been particularly impressed. Everyone would like to capture impressive images for themselves, too. The most appropriate tool for this endeavor is the SLR. Unfortunately, most SLRs are somewhat complicated for beginners and non-enthusiasts to operate.

Not so the Pentax PZ-20, which is designed in line with two important themes: taking exceptional photos should not be dependent on complex camera operation, and simplified operation should in no way detract from the images people want to capture.

The PZ-20 from Pentax. With Picture Modes for the novice and Full-Spec Modes for the advanced photographer, it's the new-generation SLR that makes advanced shooting techniques easily accessible to all.







# Picture Modes

Simply select the icon that matches your subject



The PZ-20's five Picture Modes cover a whole spectrum of shooting situations, and choosing a mode is a simple, straightforward process. Selecting the most effective mode for a specific photo opportunity is simplified by the clearly identifiable picture guides on the LCD panel — all you have to do is match the scene you see in front of you with an icon in the display. Once you make your choice, you can fine-tune even further, as you like, to suit your creative objectives.





# Picture Modes



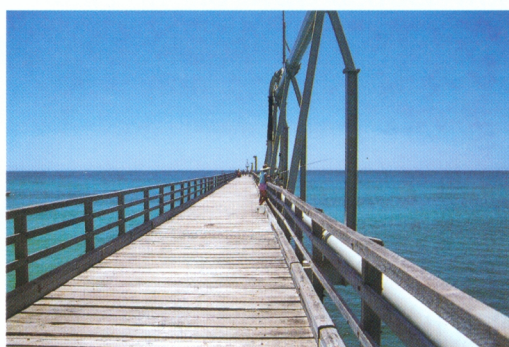
## Green Operation

This mode sets a standard program line and makes it possible for the beginner to get great results in different shooting situations. Even advanced photographers will find it useful when they have difficulty choosing the right mode. Green Operation is also convenient when you ask someone else to take your picture.



## Portrait Program

The ideal choice for both portrait and group shots. When you're shooting with a telephoto focal length, an exposure value is set that will put the background out of focus — thereby emphasizing the sharp focus on your portrait subject. With a wide-angle focal length, the selected exposure value will provide a deeper depth-of-field for clear, crisp focus from foreground to background, which is especially appropriate for group shots.



## Landscape Program

Choose this mode when the moment calls for a deeper depth-of-field. Because the PZ-20 selects an exposure setting that maximizes deep focus, you're assured of breathtaking results, whether the subject is a grand nature scene or a beautiful cityscape.



## Action Program

Specially programmed to deliver faster shutter speeds, which will help you capture fast-moving subjects on film. Obtaining dramatic results is greatly simplified by combining this mode with predictive autofocus.



## Close-up Program

This mode ensures optimum lens performance when the shutter speed threatens to produce camera-shake, a factor inherent in close-up photography.



# Hyper Program-Shift

Fine-tune as you see fit with a convenient bar graph guide



Hyper Program-Shift lets you alter the preset program as you like while looking at the bar graph in the viewfinder or LCD panel, so you can influence the creative process still further. It works with all picture modes except for Green Operation, and can be put into play with just one finger.



## Portrait Program Shift

For beautiful portraits, you can make precise adjustments within a preset range of shallow "focus zones" by using the Select Dial, which is within easy fingertip reach. Turn the dial to the left to bring the background into focus, as shown in the photo on the far left. To give greater emphasis to your subject, turn the dial to the right for more pronounced background blur, as shown on the right.



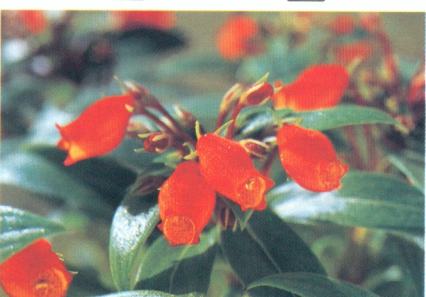
## Landscape Program Shift

Given the character of landscape photography, your fine-tuning in this case will take place within a preset range of deep "focus zones." Turn the Select Dial to the left when you want both foreground and background in sharp focus, as shown on the far left. Or turn it to the right when you'd like to accentuate a subject by putting the foreground and background slightly out of focus, as shown on the right.



## Action Program Shift

Here, the Select Dial is used to alter the way action is captured by changing shutter speed. Moving the Select Dial to the left will give you a slower shutter speed, which will emphasize subject motion. Turn the dial to the right, and a faster shutter speed will freeze subject movement for a stop-action shot.



## Close-up Program Shift

To bring the background into focus, move the Select Dial to the left. If you prefer to concentrate solely on your main subject, turn the dial to the right for a shallower field of focus.

## Learning function memorizes your habits, modifies preset programs



The PZ-20's Learning function gradually modifies the preset programs to reflect your own personal preferences. It works

with all Picture Modes with the exception of Green Operation, and the new program line is retained even when you shoot in other modes or turn the main switch off.





Hyper Manual

# Full-Spec Modes

Even more advanced shooting techniques can be explored

The Full-Spec mode grouping features Hyper Manual, which combines the strengths of automatic and manual control. Hyper Manual mode allows you to quickly determine a proper exposure that can act as a standard, a starting point from which you can explore creative alternatives. To meet the requirements of different shooting situations, the Full-Spec mode grouping includes Programmed AE with program shift possible, Aperture-priority AE, Shutter-priority AE and Bulb.

## Hyper Manual

Select an aperture or shutter speed in accordance with your creative intentions. Then, a press of the Hyper button is all it takes to tell the PZ-20 to automatically adjust the other setting for proper exposure, which acts as a standard. Furthermore, you can fine-tune as you like by referring to the bar graph in the viewfinder or the LCD panel to achieve the desired effect, be it under-exposure or over-exposure.

## Programmed AE

In this mode, the PZ-20 selects the optimum shutter speed/aperture combination automatically to simplify spur-of-the-moment shooting. You can also utilize Hyper Program-Shift, which allows you to vary the shutter speed or aperture within the range determined for correct exposure.

## Shutter-Priority AE

Select the desired shutter speed, and the PZ-20 will automatically set the aperture for proper exposure. Choose a fast shutter speed to freeze a moment in time, or a slower one to capture a dynamic, flowing image.



## Aperture-Priority AE

Simply set the desired aperture, and the PZ-20 will automatically set an appropriate shutter speed. This is the logical choice when you need precise control over depth-of-field, and is suitable for landscape, close-up and macro photography.



## Bulb

For dazzling nighttime scenes, choose Bulb mode. Set the desired aperture with the Select Dial, and the shutter will remain open as long as the shutter release button is held all the way down. To minimize camera shake, use of Cable Switch F and a tripod is recommended.



When you use the lens aperture ring, you can utilize Hyper Manual, Bulb and Aperture-priority AE.







# Intelligent

## Power Zoom

AF and metering engagement for quick response

Use of an Intelligent Power Zoom lens (SMC Pentax FA zoom) helps keep you ready when fast response is a must by making framing faster and smoother. Of particular note is a function that controls both autofocus and metering engagement in relation to zoom operation. A slight twist of the zoom ring, which offers three different zooming speeds, is all it takes to achieve the framing you desire. And while zooming is taking place, autofocus and metering adjust accordingly, continuously, so there's no delay whatsoever to limit your chances of capturing that extra-special shot. When a Pentax FA zoom lens is in use, you also have access to three auto zoom functions.

### Image-size tracking

A simple press of the zoom set button on the lens fixes the desired size of the subject within the frame. That means subject size will stay the same, even when the shooting distance changes.

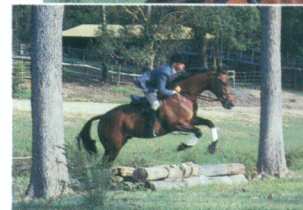
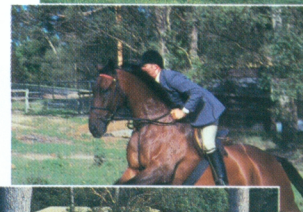
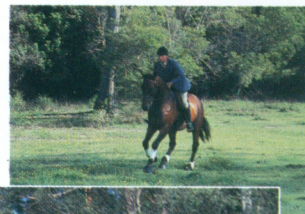


### Zoom clip

There will certainly be instances, such as sports and action photography, where you can determine beforehand a precise location at which you want to catch your subject. Zoom clip can be used to preset a focal length for a desired picture area (such as a finish line or hurdle), shoot any number of photos at a different focal length, then return to the preset setting at any time, instantly, at the press of a button.

### Zoom effect (automatic zooming during exposure)

As its name implies, this function can be used to impart a zooming effect to a photo — something that even professionals find difficult to do well. It does this by automatically activating the zoom lens when exposure is approximately half complete. When at full telephoto, the lens will zoom to wide-angle; at other focal lengths, the lens will zoom to full telephoto.







# Fast Autofocus

High-precision operation plus predictive AF

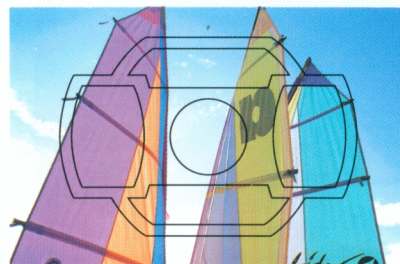
The PZ-20 employs a high-performance autofocus system that is approximately 20% faster than previous systems of its type. Focus can be achieved even in low-light conditions with illumination as low as  $-1$  EV. It also equips you with a predictive autofocus mode that will prove to be especially useful in action photography. The PZ-20 automatically switches to predictive AF when it detects subject motion, and it predicts where the subject will be at the moment of shutter release. Furthermore, you can continue shooting up to two frames with confidence even when the subject moves off the autofocus frame.



# Metering

Precise light metering and control

The PZ-20 utilizes a six-segment multi-pattern metering system that gauges light at six areas in the frame for more accurate exposure. In Hyper Manual, the PZ-20 automatically switches to spot metering for pin-point control of exposure based on a selected point of the image. You can also take advantage of positive and negative 3 EV exposure compensation, which allows you to deliberately over-expose or under-expose a subject as desired.







# Auto Flash

Extra light whenever you need it

## Built-in retractable TTL auto flash with red-eye reduction

The PZ-20 comes complete with a built-in retractable TTL auto flash that's ready and willing to make an appearance when you need to supplement available light. You'll always know if more light is required because a flash indicator in the viewfinder and the LCD panel blinks to alert you of low-light and backlighting conditions. The flash covers a 28mm lens angle of view. When shooting close-ups in the Close-up mode, the aperture is adjusted to ensure natural results. The built-in flash also features an easily accessible mode to reduce unsightly "red eyes."

## Three optional flash units

### AF330FTZ and AF500FTZ

- Can be operated along with the built-in flash.
- An auto zoom function automatically controls the flash discharge angle in relation to lens focal length.
- An AF spot beam facilitates autofocusing in the dark.
- A large LCD on the back panel indicates necessary flash range information.
- Second curtain sync lets you emphasize subject movement.
- A slave mode enables wireless remote flash discharge to be synchronized with the built-in flash (AF500FTZ only).
- AF330FTZ Guide Number — Full light output: 33 (in meters at ISO100).
- AF500FTZ Guide Number — Full light output: 50 (in meters at ISO100).

### AF140C Macro Flash

- Ideal for eliminating shadow and uniform subject illumination during macro photography.
- Features a modeling light for accurate focusing in poor lighting situations.
- Guide Number — Full light output: 14 (in meters at ISO100).



Pre-flash emission to reduce "red-eyes:"



AF330FTZ



AF500FTZ



AF140C Macro Flash





# Pentax Functions

Customize the camera to suit your preference

- Function One is used to set the film speed manually when using non DX-coded film, or when you wish to change the film speed setting of DX-coded film.
- Function Two determines whether or not picture focus is maintained while the lens is zooming.
- Function Three permits the audible PCV signal that confirms correct focus to be turned on and off.
- Function Four turns the Learning function on and off.
- Function Five clears the contents of the Learning function in one or all Picture Modes.

# Other Features

More advantages to complete the picture

## Two frames per second continuous shooting

Hold the shutter release button down, and the PZ-20's built-in motor drive will let you continue shooting at a maximum of two frames per second. Which means you can follow an action sequence as it unfolds.



## Self-timer

When at work, this electronically controlled feature gives you an approximately 12-second delay after the shutter release button is pressed to take your place in the picture.



## Date/time imprinting

The optional Pentax Data Back FE can be used to imprint the date or time on a photo. The five modes include year-month-day, day-hour-minute, off, month-day-year, and day-month-year.



# Nomenclature

An ergonomic design ensures easy operation



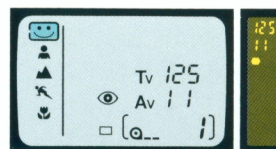
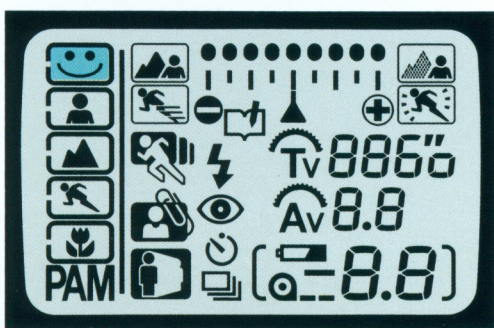
- |                                  |                              |
|----------------------------------|------------------------------|
| 1. LCD panel                     | 17. Mode button              |
| 2. Eyecup Fe                     | 18. Drive button             |
| 3. Viewfinder information window | 19. Built-in flash           |
| 4. Film information window       | 20. Flash pop-up button      |
| 5. Hot shoe                      | 21. Back cover release lever |
| 6. Tv / Av button                | 22. Release socket Fe        |
| 7. Select dial                   | 23. Auxiliary rewind button  |
| 8. Shutter release button        | 24. Focus mode switch        |
| 9. Mount index                   | 25. Aperture-A index         |
| 10. Lens lock button             | 26. Aperture/Zoom index      |
| 11. Lens information contacts    | 27. Aperture ring            |
| 12. Aperture scale               | 28. Zoom scale window        |
| 13. Distance scale window        | 29. Power zoom ring          |
| 14. Main switch                  | 30. Auto zoom switch         |
| 15. Hyper button                 | 31. Zoom set button          |
| 16. Battery chamber cover        | 32. Focusing ring            |



# Viewfinder & LCD Panel

## Clear indication at all times

All necessary information is shown in the viewfinder and on the LCD panel. You'll always be ready for those fast-breaking photo opportunities.



Green Operation



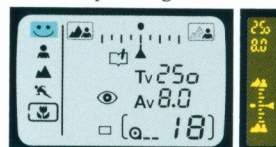
Portrait Program



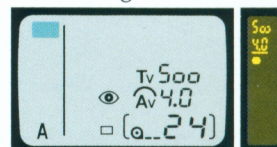
Landscape Program



Action Program



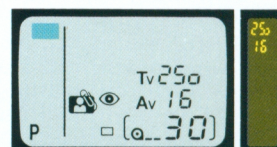
Close-Up Program



Aperture-Priority AE



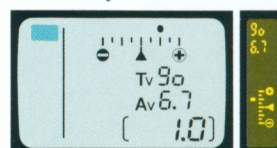
Shutter-Priority AE



Zoom Clip



Hyper Manual



Exposure Compensation

## SMC Pentax FA Lenses

A wide-ranging, high-quality lens lineup

● Name of Lens	● Lens Construction (Groups-Elements)	● Angle of View (Degrees)	● Diaphragm	● Minimum Aperture	● Minimum Focusing Distance		● Maximum Magnification (Macro Range)	● Maximum Diameter & Length (mm × mm)	● Weight		● Filter Size (mm)	● Use with RTF	
					● m.	● ft.			● g.	● oz.			
Wide-angle	SMC Pentax-FA* 24mm f/2.0 AL [IF]	9-11	84.0	FA	22	0.3	1.0	0.12	72.5 × 65.5	405	14.3	67	—
	SMC Pentax-FA 28mm f/2.8 AL	5-5	75.0	FA	22	0.3	1.0	0.13	65.0 × 40.5	185	6.5	49	○
Standard	SMC Pentax-FA 50mm f/1.4	6-7	47.0	FA	22	0.45	1.5	0.15	65.0 × 37.0	220	7.8	49	○
	SMC Pentax-FA 50mm f/1.7	5-6	47.0	FA	22	0.45	1.5	0.15	65.0 × 37.0	170	6.0	49	○
Telephoto	SMC Pentax-FA* 85mm f/1.4 [FA]	7-8	28.5	FA	22	0.85	2.8	0.11	79.0 × 70.0	550	19.4	67	—
	SMC Pentax-FA 135mm f/2.8 [IF] <sup>#1</sup>	7-8	18.0	FA	32	0.7	2.3	0.25	65.0 × 80.0	375	13.2	52	○
	SMC Pentax-FA* 200mm f/2.8 ED [IF]	8-9	12.5	FA	32	1.2	3.9	0.2	82.5 × 134.0	785	27.7	77	—
	SMC Pentax-FA* 300mm f/4.5 ED [IF]	7-9	8.2	FA	32	2.0	6.6	0.17	72.5 × 160.0	935	33.0	67	—
Zoom	SMC Pentax-FA* 600mm f/4.0 ED [IF] <sup>#2</sup>	7-9	4.1	FA	32	5.0	16.4	0.13	176.0 × 456.5	6,450	227.5	43 (150)	—
	SMC Pentax-FA Zoom 28mm — 80mm f/3.5 — f/4.7 <sup>#3</sup>	8-8	75.0-30.5	FA	22-32	0.4	1.3	0.25	71.0 × 83.5	380	13.4	58	▲
	SMC Pentax-FA Zoom 28mm — 105mm f/4.0 — f/5.6	11-13	75.0-23.5	FA	22-32	0.43	1.4	0.35	72.5 × 95.5	445	15.7	58	▼
	SMC Pentax-FA Zoom 70mm — 200mm f/4.0 — f/5.6	8-10	34.5-12.5	FA	32-45	1.1	3.6	0.25	73.0 × 116.5	465	16.4	49	○
	SMC Pentax-FA Zoom 100mm — 300mm f/4.5 — f/5.6	8-12	24.5-8.2	FA	32-38	1.5	5.0	0.25	73.0 × 154.5	605	21.4	58	○
	SMC Pentax-FA* Zoom 250mm — 600mm f/5.6 ED [IF] <sup>#2</sup>	16-18	9.9-4.1	FA	32	3.5	11.5	0.2	134.0 × 442.0	5,050	178.1	43 (112)	—
Macro	SMC Pentax-FA Macro 50mm f/2.8	7-8	47.0	FA	32	0.195	0.6	1.0	68.0 × 70.0	385	13.6	52	—
	SMC Pentax-FA Macro 100mm f/2.8	8-9	24.5	FA	32	0.306	1.0	1.0	74.0 × 103.5	600	21.2	58	—

AL...Aspheric lens  
FA...Fully automatic

#1...Lens hood built in.  
#2...Lens hood and tripod socket built in.  
#3...Inner lens hood.

▲...Wider angle than 35mm may cast shadow.  
▼...Wider angle than 40mm may cast shadow.

Note: Lens length does not include mount portion. Weights indicated are for lens body only.

\*...Applicable for use with one filter/without hood.



# PZ-20 Specifications

## Type:

TTL autofocus, auto exposure multi-mode 35mm SLR with built-in Retractable TTL Auto Flash (RTF).

## Film:

35mm perforated cartridge film.

## Image Size:

24 × 36mm.

## Lens Mount:

Pentax KAF2 bayonet mount. Compatible with KAF-, KA- and K-mounts.

## Usable Lens:

Pentax KAF2-mount lenses/KAF-mount lenses/KA- and K-mount lenses (autofocus possible using AF adapter).

## Power Zoom System (with Pentax FA zoom lens):

- Type: Motor-driven zoom by motor built in lens.
- Zooming: 3 speeds, adjustable by zoom ring (maximum speed approx. 0.8 sec. from wide to tele end of FA Zoom 28mm ~ 80mm).
- Mode: (1) Power zoom. (2) Manual zoom. (3) Auto zoom: Image-Size Tracking, Zoom Clip, Zoom Effect. (4) Auto lens retraction.

## Focusing System:

- Type: TTL phase-matching system. (SAFOX II used in AF sensor unit.)
- Usable illumination range: EV1 ~ EV18 (at ISO 100 with 50mm f/1.4 lens).
- Mode: (1) AF-Single. (Focus lock available coupled with focus prediction AF mode.) (2) Manual focus. (Set by switch on camera body.)

## Exposure Control:

- Metering system: TTL open-aperture multi-(6) segment metering (coupled with lens and AF information), spot-metering in Metered Manual mode.
- Metering range: EV1 ~ EV21 (at ISO 100 with 50mm f/1.4 lens).
- Mode: Picture Modes — (1) Green Operation. (2) Portrait Program. (3) Landscape Program. (4) Action Program. (5) Close-up Program. Full-Spec Modes — (1) Programmed AE. (2) Shutter-Priority AE. (3) Aperture-Priority AE. (4) Hyper Manual. (5) Manual Bulb. (6) TTL Program Auto Flash. Automatic exposure compensation by multi-segment metering.
- Exposure compensation: ± 3 EV (1/2 EV steps).

## Shutter:

- Type: Electronically controlled vertical-run focal-plane shutter.
- Speed: (1) Auto: 1/2000 ~ 30 sec. (stepless). (2) Manual: 1/2000 ~ 30 sec. and bulb. (3) Flash sync: 1/100 ~ 30 sec. and bulb.
- Shutter lock: Main switch off.

## Diaphragm Control:

Aperture-coupled mechanism (with FA, F and A lenses).

## Viewfinder:

- Type: Pentaprism.
- Focusing Screen: All-surface-matte Aspheric-Micro-Matte focusing screen.
- Field of View: 92% vertically/horizontally.
- Magnification: 0.77 × (with 50mm f/1.4 lens at infinity).

## Viewfinder Indication:

(1) In Focus. (2) RTF discharge. (Flash-recommendation indicator, recharge completion and non-applicable lens warning.) (3) External flash discharge. (4) Shutter speed, aperture and out-of-exposure-coupling-range warning. (5) Underline for selectable factors. (6) Action indicator and depth-of-field indicator. (7) Bar-graph (Hyper Program-Shift ratio, exposure compensation and manual exposure; correct, over or under).

## External LCD Indication:

(1) Film loading, frame number, film advance/rewind and loading error. (2) Image-size tracking, zoom clip and zoom effect. (3) Green Operation, Portrait Program, Landscape Program, Action Program and Close-up Program. (4) Programmed AE, Aperture-Priority AE, Shutter-Priority AE, Hyper Manual and Bulb. (5) Shutter speed, aperture, out-of-exposure-coupling-range warning and film speed. (6) Bar-graph (Hyper Program-Shift ratio, exposure compensation and manual exposure; correct, over or under). (7) Action indicator and depth-of-field indication. (8) Select dial for selectable factors. (9) Learning function, red-eye reduction, self-timer and single frame or consecutive shooting. (10) Battery exhaustion warning.

## Film Handling:

- Loading: Quick auto loading. (Automatic film advance to first frame.)
- Advance/rewind: Automatic. Mid-roll rewind possible.
- Advance mode: Single and consecutive. (2 frames/sec.)

## Film Speed Setting:

Automatic with DX-coded film from ISO 25 to ISO 5000. Manual setting from ISO 6 to ISO 6400.

## Built-in Flash:

- Type: Retractable TTL auto flash (RTF).
- Guide number: 13 (ISO 100/m).
- Cover angle of view: 28mm wide-angle lens.
- Daylight sync/ Slow shutter speed sync: Light amount adjustable.

## Flash Synchronization:

With RTF and via hot shoe.

- Sync speed: 1/100 sec. set automatically with RTF or dedicated Pentax flash unit at recharge completion.

## Self-Timer:

Electronically controlled multi-mode self-timer.

(1) Normal (12-second delay). Cancellation possible.

## Pentax Functions:

5 different options.

## Learning Function:

Learning function works in Hyper Program-Shift.

## Main Switch:

(1) Off (2) Full-Spec position. (3) Picture mode position.

## Power Source:

One 6V lithium battery (2CR5 type).

## Dimensions:

146.0mm (W) × 93.0mm (H) × 66.0mm (D).  
(5.7" × 3.7" × 2.6")

## Weight:

500g (17.6oz) without lithium battery.

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