



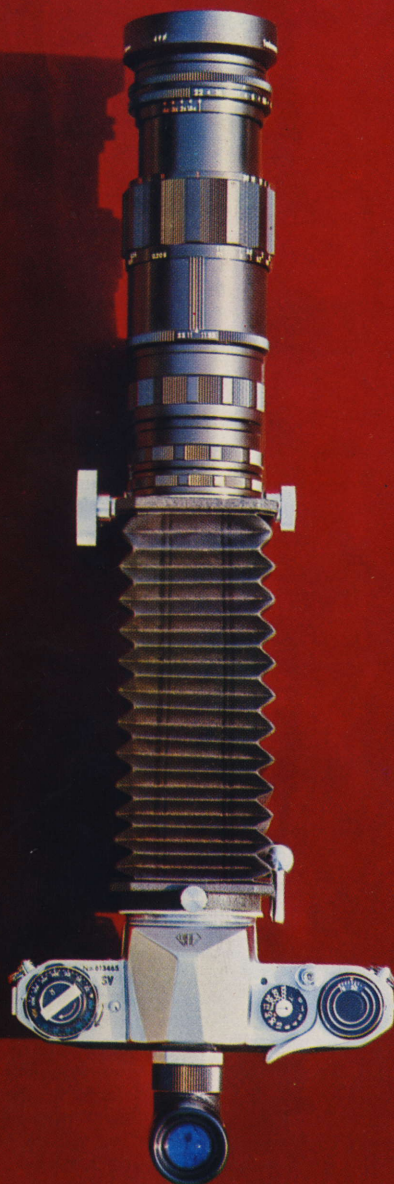
**ASAHI PENTAX Prism Binoculars With Coated Interference Filter**

The coated interference filter, another achievement of the Asahi Pentax engineering and unique with the Asahi Pentax prism binoculars, eliminates ultraviolet and infrared rays which may be harmful to the eyes, and prevents chromatic aberration, common in ordinary binoculars, which results in a reddish or purplish edge around the objective lens while viewing. Available in many sizes.



**ASAHI OPTICAL CO., LTD.**  
C.P.O. 895, TOKYO

PRINTED IN JAPAN



**COMPLETE  
SYSTEM  
OF  
PHOTOGRAPHY**

**Asahi  
Pentax  
Lenses  
And  
Accessories**



The Asahi Pentax of the word. A perform an alr ranging from p taken at great describes the l Pentax single-l most complete



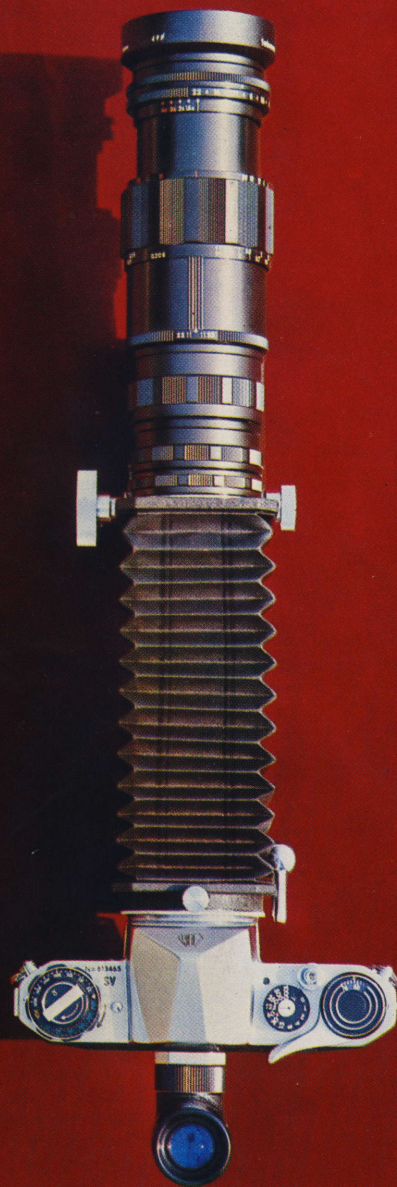


#### **ASAHI PENTAX Prism Binoculars With Coated Interference Filter**

The coated interference filter, another achievement of the Asahi Pentax engineering and unique with the Asahi Pentax prism binoculars, eliminates ultraviolet and infrared rays which may be harmful to the eyes, and prevents chromatic aberration, common in ordinary binoculars, which results in a reddish or purplish edge around the objective lens while viewing. Available in many sizes.



**ASAHI OPTICAL CO., LTD.**  
C.P.O. 895, TOKYO



**COMPLETE  
SYSTEM  
OF  
PHOTOGRAPHY**

**Asahi  
Pentax  
Lenses  
And  
Accessories**





The Asahi Pentax is a classic 35mm camera in the true sense of the word. Although compact in size, it can be equipped to perform an almost unlimited number of photographic tasks, ranging from pictures taken through a microscope to pictures taken at great distances with a telephoto lens. This folder describes the lenses and accessories which make the Asahi Pentax single-lens reflex camera the heart of one of today's most complete quality systems of 35mm photography.

## FILTERS AND LENSHOODS



Asahi Pentax lenshoods are recommended for use whenever possible to guard against off-angle light which will cause flare in your pictures. (All Takumar lenses from 85mm up to 1000mm are supplied with a special lenshood.)

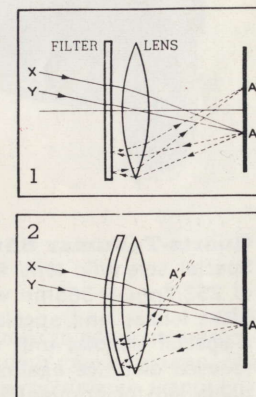
Improve your picture quality by using the Asahi Pentax filters that are precision-ground, polished and coated for your Asahi Pentax. (The black dots in the following table show the available filters.)

For the sizes of the filters and lenshoods, please refer to the inside table for Takumar lenses.

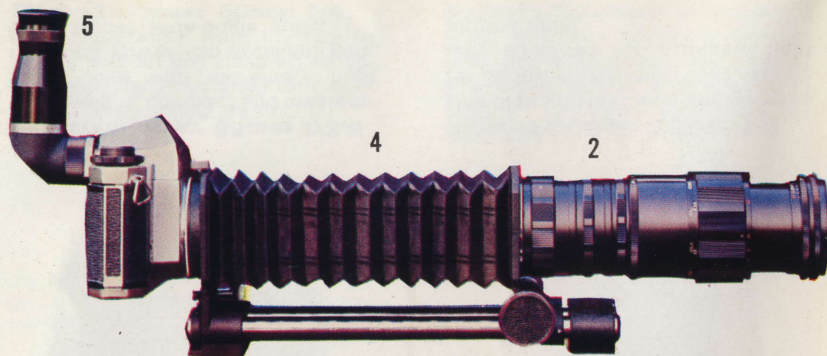
EXPOSURE FACTOR			FILTER SIZE IN MM								
			46	49	55	58	67	70	82		
FILTER DESCRIPTION											
FOR MONOCHROME FILMS	UV (Ultraviolet; haze-cutting)	1	●	●	●	●	●	●	●		
	Y1 (Light yellow)	1.5	●	●							
	Y2 (Medium yellow)	2	●	●	●	●	●	●	●		
	O2 (Light orange)	3	●	●	●	●	●	●	●		
	YG (Yellow green)	2	●	●							
	R2 (R-60; red)	6	●	●							
FOR DAYLIGHT TYPE REVERSAL COLOUR FILMS	SKYLIGHT	1	●	●	●	●	●	●	●	For sunlight & skylight.	
	CLOUDY	1.5	●	●						For open shades, cloudy days and haze.	
	MORNING & EVENING	1.5	●	●						For early morning and late afternoon sunlight.	
	FLASH	2	●	●						For clear wire-filled flash bulbs.	
	FLOOD	3	●	●						For photo studio floods.	

## ASAHI PENTAX GHOSTLESS FILTER

Diagram 1 shows how a ghost image (A') sometimes appears on film when pictures are taken against light (neon signs, street lights, moon, etc.) using a conventional filter. The Asahi Pentax Ghostless Filter is a breakthrough in filter design. With this curved U.V. filter, the image light reflected back to the Ghostless Filter and re-transmitted through the lens forms a duplicate image in the air (A' in Diagram 2), thus eliminating a ghost image on film plane. It is available in 49mm size only.







### CLOSE-UP AND MACROPHOTOGRAPHY

Here is the fascinatingly varied and exciting world of close-up and macro-photography. Patterns, forms and structures of every-day objects, as well as tiny nature life, can be revealed with vivid freshness and impact. The Asahi Pentax is the key to this intimate world. Through its single-lens reflex and micro-prism focusing, the image you see is bright and free of parallax error.

#### CLOSE-UP LENS

For simple close-ups, this is an extremely versatile and economical accessory, and enables you to close up your objects as large as 1/3 the life size with your standard lens. With this lens on any of your Super-Takumar lenses, you can operate the diaphragm fully automatically, without manipulation for exposure increase.

#### EXTENSION TUBE SET

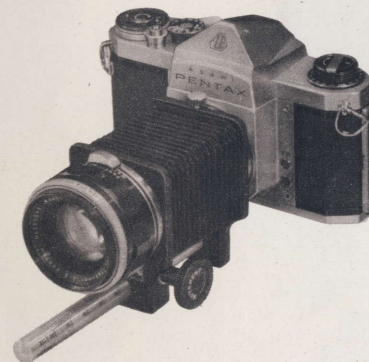
Three precision extension tubes of 9.5mm, 19mm and 28.5mm which, when placed between your camera body and standard lens, magnify your objects on the film plane as large as the life size. Each tube can be used singly or together according to the size of your close-up works.

#### STANDARD BELLOWS UNIT

An extremely flexible accessory for extreme close-up and macrophotography, this unit has a special calibrated gear shaft for simple exposure calculation. With your standard lens mounted on this unit, you can easily reach the magnification of about 2.5 times the life size.

#### ASAHI PENTAX BELLOWS II

This is a double-track, De Luxe model bellows unit for extreme magnification. Mounted between your camera body and standard lens, you can obtain the maximum magnification of more than 3 times the life size. The Asahi Pentax Slide Copier fits this unit for easy duplication of your colour slides.



#### REFCONVERTER

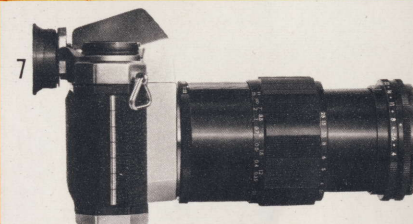
A convenient accessory viewfinder which fastens to the viewfinder frame of your Asahi Pentax. It is ideal for your macrophotography, and is extremely useful for low-angle pictures.

Even greater macrophotographic effectiveness can be achieved by combining the Extension Tube Set and the Standard Bellows Unit, or the Bellows II, or all three. For even more fantastic and VERY sharp results, a lens especially designed and corrected for macrophotography is available for you ... that's the Macro-Takumar 50mm f/4.



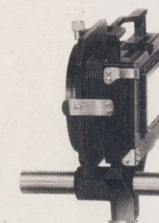
#### MAGNIFIER

With 2-power magnification, this accessory is most convenient for critical focusing in close-up, macrophotography, copying, and telephoto works.



#### CORRECTION LENS ADAPTER

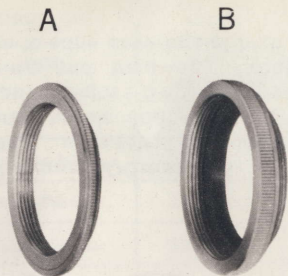
Prescription eyepiece. Also use it without correction lens as eye-cup for easier focusing.



#### SLIDE COPIER

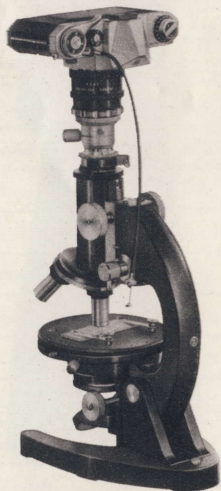
Use this with the Bellows II for duplicating your colour slides.





### LEICA MOUNT ADAPTER

Adapter A for fitting Leica-mount lenses on Asahi Pentax body; Adapter B for fitting Takumar lenses on Leica-mount camera body, for close-ups.



### MICROSCOPE ADAPTER

Inserted between your camera body and a microscope tube, this adapter enables you to take microscopic pictures with the optics of the microscope.



### CLIP-ON METER

Highly sensitive CdS exposure meter which fits on top of your camera body and couples with the camera's shutter speed dial.



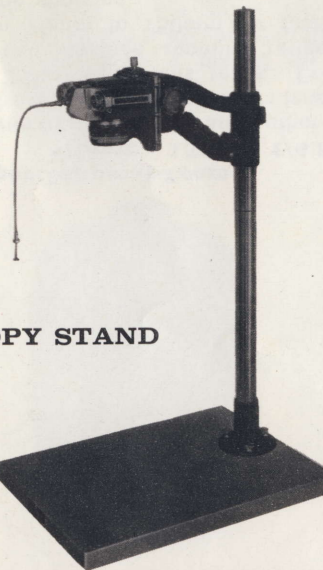
### LENS LEATHER CASE

for standard lenses.



### ACCESSORY CLIP

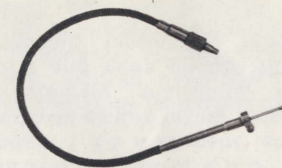
This clips on to the viewfinder frame of your Asahi Pentax and accepts a folding flash gun.



### COPY STAND



### COIPOD



### CABLE RELEASE

Use a cable release to prevent camera movement when taking close-ups and telephotos.



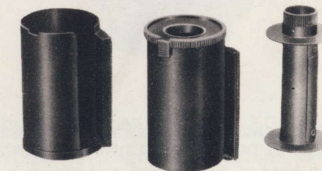
### REAR LENS CAP

for keeping standard lenses separately from your camera body.



### BODY CAP

for keeping your camera body alone.



### FILM MAGAZINE

Special cassette for quick and simple loading of bulk film.



**Macro-Takumar 50mm f/4**

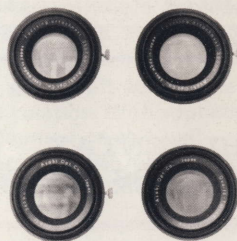
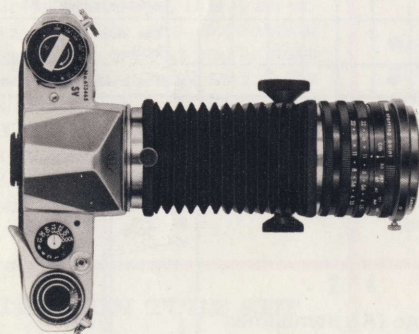
For photography from life-size to infinity without any close-up accessory, especially designed for close-up and macrophotography.

**Bellows-Takumar 100mm f/4**

Used with the standard Bellows Unit, this short-barrel lens enables you to photograph from life-size to infinity. Extremely convenient for close-ups from a distance.



6 11  
9

**Quartz-Takumar 85mm f/3.5**

Special scientific lens for ultra-violet photography under U.V. illumination of  $253.7\text{m}\mu$  or  $365\text{m}\mu$  wavelength band. Supplied with two focus attachment lenses and special filters against  $253.7\text{m}\mu$  and  $365\text{m}\mu$  bands, and a special bellows unit with calibrated gear shaft for magnification and focused distance against these two wavelength bands. An extremely valuable aid for criminal investigation, industrial and other scientific works.





	NAME OF LENSES	FOCAL LENGTH & MAXIMUM APERTURE	MINIMUM APERTURE	LENS ELEMENT	DIAPHRAGM	MINIMUM FOCUSING DISTANCE		ANGLE OF VIEW	WEIGHT		FILTER SIZE	LENSHOOD SIZE	LENS CAP SIZE
						m.	ft.		gr.	ozs.	mm	mm	mm
1	Fish-Eye-Takumar	18mm f/11	32	4	M	0.26	0.1	180°	97	3.4	NA	NA	57
2	Super-Takumar	28mm f/3.5	16	7	FA	0.4	1.3	75	260	9.2	58	60 <sup>②</sup>	60
3	Super-Takumar	35mm f/3.5	16	5	FA	0.45	1.5	63	152	5.4	49	49	51
4	Super-Takumar	35mm f/2	16	8	FA	0.45	1.5	63	398	14	70 <sup>③</sup>	70 <sup>③</sup>	70
5	Super-Takumar	50mm f/1.4 <sup>④</sup>	16	8	FA	0.45	1.5	46	245	8.6	49	49	51
6	Macro-Takumar	50mm f/4	22	4	PS	—	—	46	265	9.3	49	49	51
7	Super-Takumar	55mm f/2 <sup>④</sup>	16	6	FA	0.45	1.5	43	215	7.6	49	49	51
8	Super-Takumar	55mm f/1.8 <sup>④</sup>	16	6	FA	0.45	1.5	43	215	7.6	49	49	51
9	Quartz-Takumar	85mm f/3.5	22	4	PS	—	—	28	126	4.4	49 <sup>⑤</sup>	NA	51
10	Super-Takumar	85mm f/1.9	16	5	FA	0.85	2.75	28	350	12.3	58	58*	60
11	Bellows-Takumar	100mm f/4	22	5	PS	—	—	24	139	4.9	49	49*	51
12	Takumar	105mm f/2.8	22	5	PS	1.2	4	23	250	8.8	49	49*	51
13	Super-Takumar	105mm f/2.8	22	5	FA	1.2	4	23	290	10.2	49	49*	51
14	Takumar	135mm f/3.5	22	5	PS	1.5	5	18	315	11.1	49	49*	51
15	Super-Takumar	135mm f/3.5	22	5	FA	1.5	5	18	343	12.1	49	49*	51
16	Super-Takumar-Zoom	70~150mm f/4.5	22	14	FA	3.5	11.5	16~35	1209	42.6	67	67*	70
17	Tele-Takumar	200mm f/5.6	22	5	PS	2.5	8.2	12	370	13.1	49	49*	51
18	Takumar	200mm f/3.5	22	4	PS	2.5	8.2	12	900	26.5	67	67*	70
19	Tele-Takumar	300mm f/6.3	22	5	PS	5.5	18	8	729	25.7	58	58*	60
20	Takumar	300mm f/4	22	4	M	5.5	18	8	1575	55.6	82	82*	85
21	Takumar	500mm f/5	22	2	M	10.0	32.8	5	2850	100.5	46	*	116
22	Tele-Takumar	1000mm f/8 <sup>⑦</sup>	22	5	M	30.0	98	2.5	5500	197.5	49	*	143

NA=Not available. M=Manual. FA=Fully Automatic. PS=Preset. ①=Diagonal coverage. ②=Clip-on type. ③=Standard lens for Spotmatic. ④=Standard lens for model S1a. ⑤=Standard lens for model SV. ⑥=Special filters are supplied with lens. ⑦=Supplied with wooden tripod and carrying cases. All lenses including standard lenses purchased separately, are supplied with a leather case, front and rear caps. All filters and lenshood are screw-on type unless otherwise indicated.

### Takumar 105mm f/2.8

Exactly same as the Super-Takumar 105mm f/2.8 except that this is equipped with a pre-set diaphragm.



### Super-Takumar 105mm f/2.8

A quality medium telephoto lens of 5 elements, recommended for scenery, portrait, news photos and other moderate telephotography.



12 13

14 15



### Takumar 135mm f/3.5

Exactly same as the Super-Takumar 135mm f/3.5, except this is equipped with a pre-set diaphragm.

### Super-Takumar 135mm f/3.5

Produces a brilliant image in all corners of the picture even with the diaphragm fully open. Indispensable for distant subject matter and for portrait.



**Tele-Takumar 300 f/6.3**

Extremely light-weight and compact, this lens is designed for photographers who specialize in outdoor telephotography.



19

20

**Takumar 500mm f/5**

Perfect ultra-telephoto lens for sports, scenic and wildlife photography. Bright f/5 image simplifies aiming and focusing. Produces edge-to-edge coverage of high resolution.



21

**Super-Takumar 85mm f/1.9**

A bright 4-element lens which produces an image slightly larger than the standard lens. Perfect for available light portraiture, nature studies, commercial photography and sports coverage.



10

17

16

18

**Super-Takumar-Zoom****70mm ~ 150mm f/4.5**

Proven by an impartial and authoritative test to be the best zoom lens for 35mm single-lens reflex. Extremely versatile zooming range from 70mm to 150mm for fast-action shooting.

**Tele-Takumar 200mm f/5.6**

Small, compact and light-weight, this lens weighs only slightly more than the Super-Takumar 135mm lens, yet it produces professional quality resolution in hand-held telephotography.

**Takumar 200mm f/3.5**

A bright f/3.5 4-element lens for hand-held picture taking. Ideal for extraordinary snapshots, stage, sports and news photos with exceptionally fascinating telephoto effects.



**Fish-Eye Takumar 18mm f/11**

The widest wide-angle lens—lighter and more compact than any made—covers an angle of vision of about 180°

**Super-Takumar 28mm f/3.5**

Super-wide-angle lens with an angle of view of 75°—designed and precision-made to meet the most exacting of the professional requirements.



1 2  
3 4

**Super-Takumar 35mm f/3.5**

Light-weight, compact and medium-speed lens with extremely high resolving power—an excellent general-purpose wide-angle optic.

**Super-Takumar 35mm f/2**

One of the fastest wide-angle lenses for 35mm single-lens reflex, especially designed for available light photography.

**TAKUMAR LENSES**

(18mm ~ 1000mm)

... among the finest  
in the world today.

No subject is  
beyond the  
complete system of  
the Takumar lenses.

No picture area is  
too ambitious.

With the  
Takumar Lens System,  
you are master of  
any photographic  
application ...  
from ultra-wide-angle  
to ultra-telephoto,  
from ultra-close-up  
to ultra-violet  
photography.

22

**Tele-Takumar 1000mm f/8**

The "big gun" of the Takumar lens family, this super-telephoto lens photographs subjects which are too far away to be seen with the naked eye. The ultimate in fine optics for photographers who specialize in news, sports, scientific or wildlife photography.