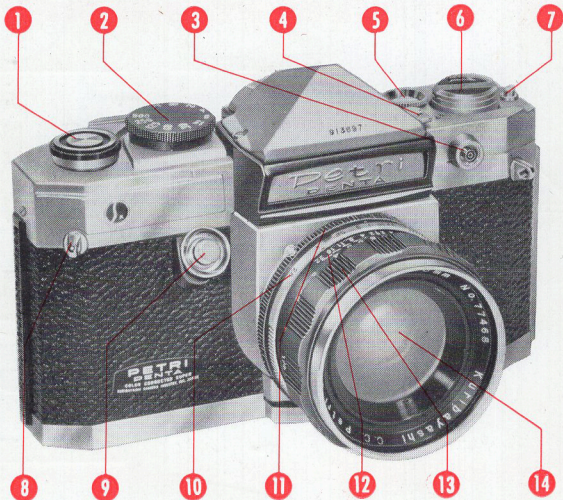




INSTRUCTION BOOK

PENTRA
PENTRA

DESCRIPTION OF PARTS



- ① FILM WINDING LEVER
- ② SHUTTER SPEED DIAL
(Single-pivot Non-rotation System)
- ③ FLASH SOCKET
- ④ SYNCHRO-SWITCH (X & FP)
- ⑤ ASA SPEED & AUTOMATIC
EXPOSURE COUNTER
- ⑥ FILM REWIND CRANK
- ⑦ SCREWING HOLE FOR
ACCESSORY SHOE ATTACHMENT
- ⑧ NECK STRAP LOOP
- ⑨ SHUTTER RELEASING BUTTON
- ⑩ DIAPHRAGM RING
- ⑪ DIAPHRAGM PRESETTING RING
- ⑫ DEPTH OF FIELD SCALE
- ⑬ FOCUS ADJUSTING
HELICOID RING
- ⑭ ORRIKKOR F: 2 50mm LENS



CONTENTS

- HISTORICAL BACKGROUND OF PETRI PENTA 3
- SPECIFICATIONS 4
- ORIKKOR LENS 5~6
- DESCRIPTION OF PETRI PENTA 7
- FILM LOADING 8~10
- HOW TO HOLO YOUR PETRI PENTA 11
- FOCAL ADJUSTMENT 12
- DIAPHRAGM AND SHUTTER SPEED SETTINGS ... 13
- EXPOSURE SETTING 14
- SEASONABLE EXPOSURE GUIDE 15
- NEW DEVICES 16
- DEPTH OF FIELD GUIDE 17~18
- SYNCHRO-FLASH PHOTOGRAPHY 19~20
- FILM UNLOADING AFTER SHOTS 21
- DEVELOPMENT OF YOUR PICTURE 22
- ACCESSORIES FOR PETRI PENTA 23~28
- PICTURE TAKEN BY PETRI PENTA 29
- CARE AND HANDLING OF YOUR PETRI PENTA ... 30





PETRI

PETRI PENTA

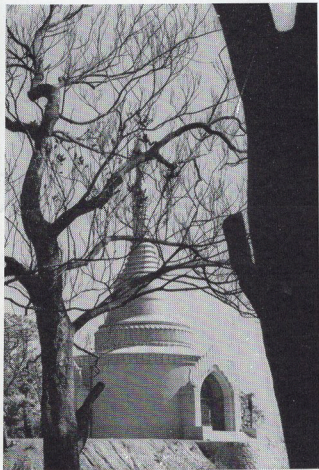
The KURIBAYASHI CAMERA INDUSTRY, INC. which started its optical manufacturing in 1910, is **one of the most experienced camera manufacturers** in Japan.

In recent years, **over ten types of new PETRI cameras** have been introduced to the still camera fans, including the 6x6-Trio; PETRI RF, PETRI Super, PETRI Flex, the PETRI 35 series; F3.5, F2.8, F1.9 and the well-known 'Green-O-Matic' series; F2.8, F1.9 and F1.8 which have made PETRI famous the world over.

Our motto "**High Quality Cameras at Lowest Possible Prices**" is made possible through our technical know-how and our most modern and efficient facilities.

Our **surperlative conveyor system** turns out finished cameras on the assembly line process - from lens, body, shutter, assembly and final inspection - which guarantees uniformity, precision and reliability.

Superlative Features of PETRI PENTA



TYPE :
FILM SIZE :
PICTURE SIZE :
STANDARD LENS :

SHUTTER :
SHUTTER SPEEDS :

VIEW-FINDER :

MIRROR :

**FILM TRANSPORT
& REWIND:**

**INTERCHANGEABLE
LENS :**

SYNCHRONIZATION :

Penta-Prism single lens reflex with Presetting Diaphragm
35mm film (20 or 36 exposures)

24mm x 36mm

PETRI ORIKKOR 50mm, F2, color corrected (Amber-Magenta coated) lens.

Focal Plane Shutter

1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250 1/500
sec. and B.

Penta-Prism viewfinder with built-in image brightening
Fresnel lens

Shutter-coupled "Quick Return" System which avoids
any image black-out. Assures viewing continuity, to
capture the "just right" expression or action.

Single-stroke (180°) rapid transport lever which
automatically transports film and cocks the shutter
simultaneously.

PRAKTIKA Type screw-in mount (Diameter :42mm,
Pitch : 1mm)

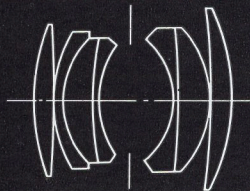
FP & X Synchronization with built-in German type
synchro-socket



ORIKKOR LENS



PETRI ORIKKOR F2 50mm



7-element, 4 group structure, aperture 2 - 22, direct mirror barrel, screw type

$42\phi P=1$,

Divided index type interchangeable lenses with one hand preset aperture **amber-magenta combination coating**

105mm

f=1:3.5

135mm

f=1:3.5

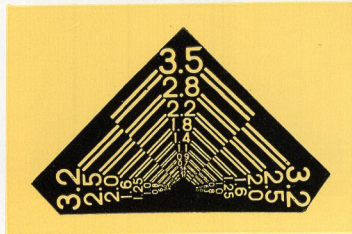
180mm

f=1:3.5

500mm

f=1:8

TEST CHART



THE ORIKKOR F 2 50mm LENS

A new type of high quality lens which has the back focus at 73% of the focal length is made **6 layers of high refractive index flint glass**. All lens aberrations have been completely corrected, and because glass of high refractive index is used, the reproduction of the original images are insured to the highest degree.

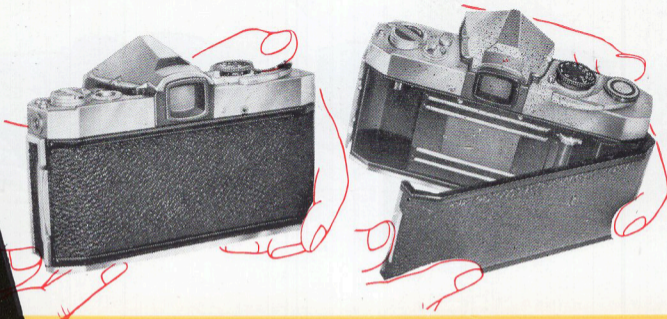
The unique amber-magenta coating of PETRI ORIKKOR lenses gives the highest effectiveness to both black & white and color photography.



■ PETRI PENTA ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Our latest 35mm camera is the PETRI PENTA, a handsome eye-level-prism plus instant-return-mirror-knob with a manually preset 50mm F2 lens. Other features include a single-stroke rapid-advance lever, shutter speeds from 2 to 1/500 sec., & B. a rapid-rewinding crank and a self-starting frame counter. Six kinds of Interchangeable Lenses for PETRI PENTA with focal lengths ranging from 35 to 50mm are available.

Beauty of design, simplicity of operation, sturdy construction, and the assurance of perfect pictures at all times, make PETRI PENTA the camera of all cameras. Whether for color, black and white, indoors or out, with or without flash, the PETRI PENTA will always be equal to the situation and ready to help you to make those true-to-life pictures that you will cherish for many years.

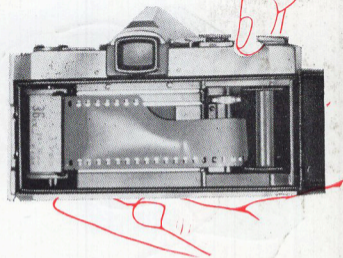


OPENING THE BACK COVER

Pull down the lever with your thumbnail to open the cover.

The cover will be automatically released as shown in the picture.

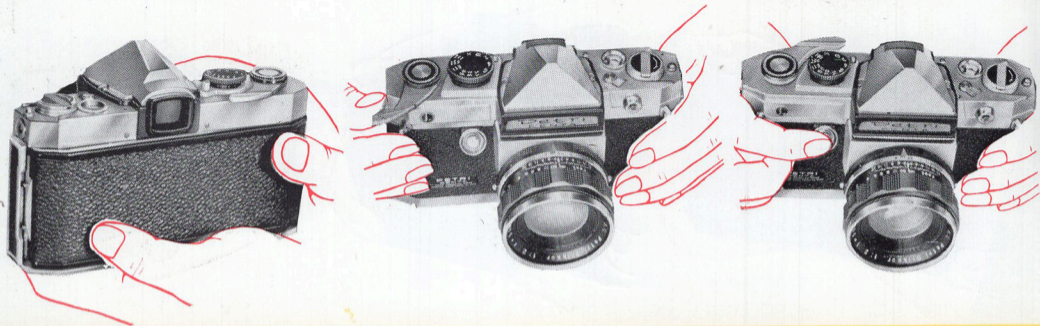
NOTE: Be sure that the sprocket holes in the film line up with the projections on the take-up sprocket. Push back the film rewind knob so that it holds the cartridge. Make sure it goes in all the way. If not, rotate the knob slowly until it seats itself.



FILM LOADING

Pull out the film rewind knob on top of the camera. Slip the end of the film into the slot in the take-up spool so that the end is fastened.

Pull the cartridge back, letting enough film unwind so that you can place the cartridge in its compartment.

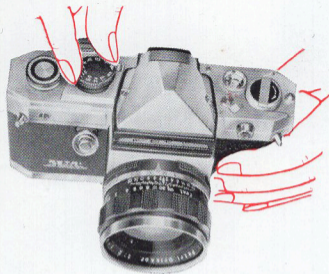


CLOSING THE BACK COVER

Back cover will automatically be closed by pushing it and simultaneously the starting point will appear opposite the black indicator point on the film counter.

FILM WINDING

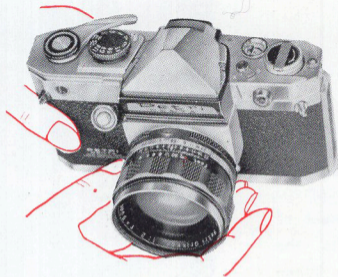
Cock the camera by turning the film winding lever and press the shutter button. Repeat this operation again then turn film winding lever only and you are ready to snap your first picture.



SETTING SHUTTER SPEED

Shutter speed is set by turning the Shutter Dial at green indicating point. Before using shutter speed dials, read "FOCAL ADJUSTMENT" on page 12 and "FOCAL PLANE SHUTTER OF PETRI PENTA" on page 13.

NOTE: When cocking camera, advance the film winding lever fully until it stops to insure full advancement of film.



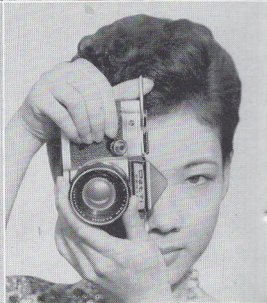
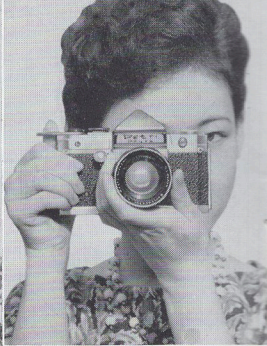
SETTING APERTURE (DIAPHRAGM)

Turn the Diaphragm ring to the desired lens opening. Before use Diaphragm ring, please read "ONE HAND PRESET APERTURE" on page 12 and "EXPOSURE SETTING" on page 14.

HOW TO HOLD YOUR PETRI PENTA

Since the film size of a 35mm camera is small, the slightest movement of the camera greatly affects the sharpness of the picture. When holding the camera, try to keep at least one elbow as close to the body as possible.

Cradle the camera in both palms, check your breath and press the shutter release button with the right index finger in a smooth and steady motion. Do not jerk the camera.

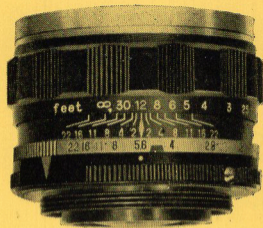


FOCAL ADJUSTMENT

Turn the helicoid ring to the right or left until the image in the round bright image glass in the center of the viewfinder becomes clearest. Focal adjustment is usually done with the aperture wide open, but **the effectiveness of image making can be tested by presetting the aperture at a certain value.**

ONE HAND PRESET APERTURE

Before adjusting focus, open the aperture widely by turning the Diaphragm Presetting Ring to match the red point (●) on the same Ring with the red mark (◆) on the Depth of Field Scale. See picture A. Then, inside the viewfinder will maintain maximum brightness. After focal adjustment has been completed, do not forget to turn the Diaphragm Presetting Ring to the right until it stops at the match point (green mark). See picture B. You will notice that the **field-of-view in the viewfinder becomes dark.** All these operations **can easily be made by one hand**



(A)



(B)

FOCAL PLANE SHUTTER OF PETRI PENTA



SHUTTER SPEED :

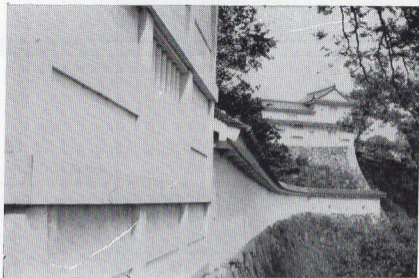
The PETRI PENTA is equipped with shutter of $1/2$, $1/4$, $1/8$, $1/15$, $1/30$, X, $1/60$, $1/125$, $1/250$, $1/500$ sec. & B. (Note that the numbers on the dial are all denominators of shutter speeds.)

The big, easy-to-read-numbers type Shutter Dial is another PETRI PENTA first !

ADJUSTMENT OF SHUTTER SPEED :

Turn the Shutter Dial to match the green arrow-mark with your desired speed. When using X(red) for flash photography, refer to "FLASH PHOTOGRAPHY" on page 19.

EXPOSURE SETTING



Aperture Setting

Turn the Diaphragm ring on the lens barrel in either direction and set it at the desired opening. This Diaphragm ring is of the click-stop type so there is no fear of it sliding during shooting. If you set the Red Figures 11 and 12 on the Diaphragm Ring and Distance Scale at the Red Mark (◆), you do not need to adjust focus each time you aim at different subjects. Just set the shutter speed dial at your desired speeds and shoot.

SEASONABLE EXPOSURE GUIDE

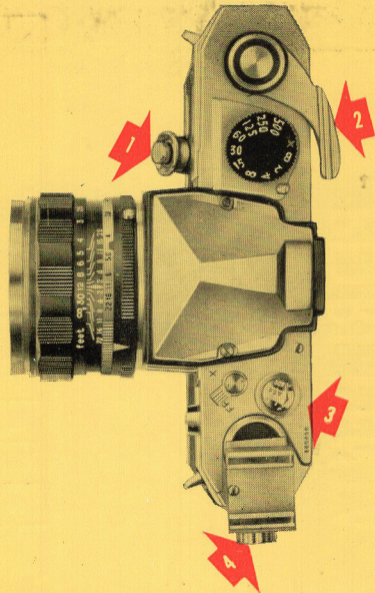


SEASON MONTH	SPRING		SUMMER		AUTUMN		WINTER	
SUBJECT	Mar.	Apr. May.	June.	July Aug.	Sept.	Oct. Nov.	Dec.	Jan. Feb.
Bright Subject	F.	SEC.	F.	SEC.	F.	SEC.	F.	SEC.
	16	1/250	22	1/250	16	1/250	11	1/250
Average Subjects	8	1/250	11	1/250	8	1/250	8	1/250
Shaded Subjects	4	1/125	4	1/250	4	1/60	4	1/30
Weather	Fair		Cloudy (Slight)		Cloudy		Cloudy (Heavy)	
	Standard		2 Times		3 Times		4 Times	
Time	10 am. ~ 2 pm.		9 am. ~ 10 am. 2 pm. ~ 3 pm.		8 am. ~ 9 am. 3 pm. ~ 4 pm.			
	Standard		2 Times		3 Times			
Film	ASA 100				ASA 50			
	H. S. pan				pan.			
	Standard				2 Times			



NEW MECHANICAL DEVICE

1. The shutter releasing button is placed on the front of the camera body with an angle of inclination of 30° against the optical axes of the lens for easy shooting and preventing shock of camera body while pressing the button.
2. Automatic single stroke film transport lever is given a play in the range of 15° so as to ease the rapid successive shots.
3. The exposure counter dial will move back to the starting point automatically when the back cover is opened.
4. The handy screw-in accessory shoe can be attached at the side top of the camera body.



PETRI PENTA



F Feet	2	2.8	4	5.6	8	11	16	22
1.75	1.79~1.72	1.80~1.71	1.82~1.69	1.85~1.67	1.89~1.63	1.95~1.59	2.05~1.53	2.20~1.46
2	2.04~1.96	2.06~1.94	2.09~1.92	2.13~1.89	2.19~1.84	2.27~1.79	2.41~1.76	2.61~1.62
2.5	2.57~2.43	2.60~2.41	2.65~2.37	2.70~2.33	2.80~2.26	2.94~2.17	3.19~2.05	3.57~1.92
3	3.11~2.91	3.14~2.87	3.22~2.82	3.31~2.75	3.46~2.65	3.66~2.54	4.08~2.38	4.98~2.20
4	4.18~3.83	4.27~3.76	4.39~3.68	4.57~3.56	4.88~3.39	5.29~3.22	6.21~2.95	8.15~2.68
5	5.29~4.74	5.43~4.63	5.65~4.48	5.95~4.31	6.45~4.08	7.25~3.82	9.09~3.45	13.96~3.09
6	6.45~5.65	6.67~5.49	6.99~5.29	7.46~5.05	8.26~4.74	9.62~4.39	13.33~3.89	30.09~3.44
7	8.77~7.35	9.17~7.09	9.80~6.76	12.05~6.37	12.66~5.86	16.13~5.32	31.14~4.65	∞~3.92
12	13.89~10.64	14.93~10.10	16.67~9.43	19.61~8.70	27.03~7.75	50.00 6.85	∞~5.71	∞~4.78
30	47.62~22.22	58.80~20.41	100~17.86	∞~15.38	∞~12.66	∞~10.31	∞~7.94	∞~5.98
∞	∞~83.33	∞~62.50	∞~43.48	∞~30.30	∞~21.28	∞~15.63	∞~10.75	∞~7.81

APPLICATION OF THE DEPTH OF FIELD GUIDE



The depth of field is the distance between the furthest and nearest points at which your subject will be in focus.

The depth of focus of any camera will vary according to its focal length, aperture or lens opening and the kind of lenses.

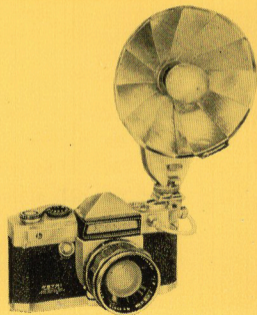
The lens with the shorter focal length will have more depth while the longer focal length will have less. Your PETRI PENTA is engraved with a depth of field scale which will aid you greatly in bringing your subject into proper focus for quick snap shots.

Be familiar with the depth of field scale on your PETRI PENTA as quickly as possible and enjoy its wonderful adaptability.

FLASH PHOTOGRAPHY

The PETRI PENTA is equipped with FP and X synchro-switch. The table opposite shows which synchro-switch setting on the camera, which shutter speeds and which flashbulbs may be combined for maximum lamp efficiency. Unless these combinations are rigidly followed, you will be a failure in flash photography. Taking for an example, when you use Electronic Flash (Strobe) set the synchro-switch on the top cover of the camera to X and at the same time, turn the Shutter Dial to set the speed at X (red). Thus, you can obtain a fully synchronized flash photography.

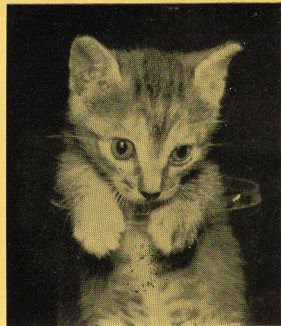
When you use FP class flash bulb, set the synchro-switch to FP and at the same time turn the Shutter Dial to set at whatever the speed higher than 1/60. Thus, you can obtain a full-synchronized flash photography from shutter speed 1/60 up to 1/500 sec.

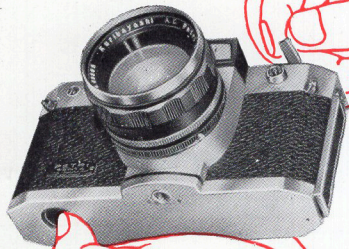


PETRI PENTA



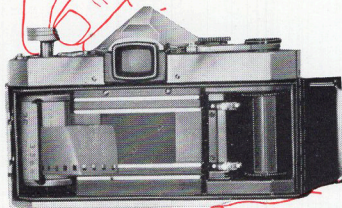
SHUTTER SPEEDS SYN CHRO SOKETS	1	1	1	1	X	1	1	1	1	1	B		
	500	250	125	60		30	15	8	4	2			
FP	FP Class (Screw base)												
	FP Class (Bayonet base)												
X						F Class							
						M Class							
					Electronic Flash								





RE-WINDING FILM BACK

pull out the rewinding crank handle and rewind the film by pressing the returning button located at the bottom of your camera.



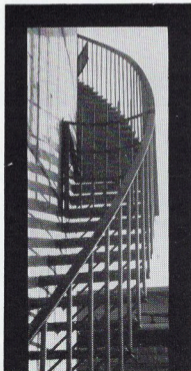
REMOVING FILM

Pull the rewind knob out to remove the cartridge.

HOW TO REMOVE FILM AFTER SHOTS



DEVELOPMENT OF YOUR PICTURES



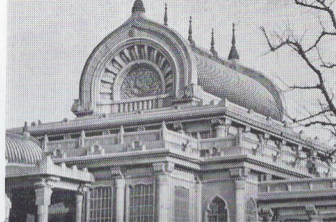
It is important that you **develop your film as soon as possible** after taking your pictures.

At high temperatures, **especially in the Summer** your film may spoil if left in an undeveloped condition for too long a time. Be especially careful **not to store your undeveloped film in a damp place.**

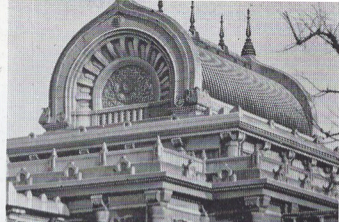
When rewinding the film in the camera do not wind it completely so that the end of the film disappears completely into the magazine, for exposed film wound in this manner is sometimes mistaken for film not yet exposed.



35 mm



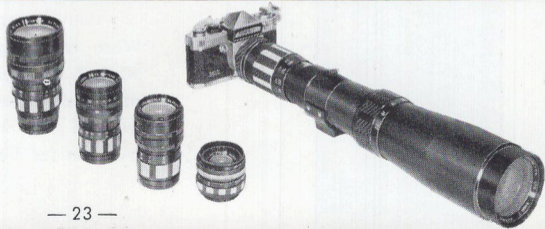
105 mm

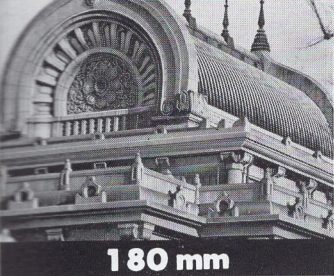


135 mm

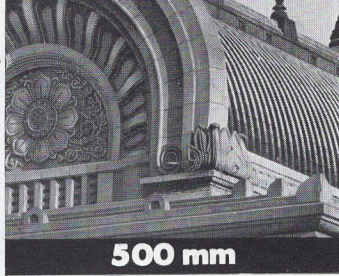
105mm
135mm
180mm
500mm

f-1:3.5
f-1:3.5
f-1:3.5
f-1:8





180 mm



500 mm



When interchanging lenses, hold the lens by the focus adjusting helicoid ring shown in photograph.

	Wide Angle 35mm ORIKKOR F3.5	Telephoto 105mm ORIKKOR F3.5	Telephoto 135mm ORIKKOR F3.5	Telephoto 180mm ORIKKOR F3.5	Telephoto 500mm ORIKKOR F8
Construction of lens	5 elements	3 elements	4 elements	4 elements	2 elements
Angle of view	62°	23°	19°	14°	5°
Taking distance	3 feet to inf.	5 feet to inf.	5 feet to inf.	7 feet to inf.	30 feet to inf.
Diaphragm scale	Preset 3.5 to 22	Preset 3.5 to 22	Preset 3.5 to 22	Preset 3.5 to 22	Preset 8 to 22
Length of lens barrel	47.5mm	85mm	83mm	127mm	468.5mm
Gravity	170g	270g	293g	610g	1,300g
Attachment size	Screw-in type 49 P = 0.75	Screw-in type 46 P = 0.75	Screw-in type 62 P = 0.75	Screw-in type 62 P = 0.75	Screw-in type 43 P = 0.75

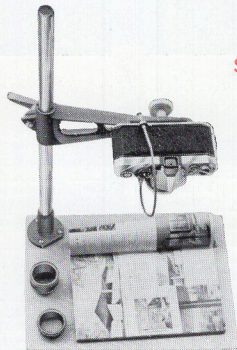
PENTA'S EXTENTION TUBE SET



When you use these **PETRI PENTA's rings** in between the Standard Lens and camera body, you are able to photograph with PETRI's **ORIKKOR 50mm Lens**, a subject in about 9cm distance. A ring-set consists of three types; A, B and C. The thickness of A-Ring is 7.5mm, B-Ring 15mm and C-Ring 30mm. You can select the combination of them as you wish. A-Ring is **useful for photographing the subject which has a comparatively wide-area such as books.** When you use all of A, B & C rings with your PETRI's **ORIKKOR 50mm Standard Lens**, you will get the picture of **1.05 magnifications of life-size.**

PENTA'S COPY STAND

One of the superlative features of Single-Lens Reflex is that **it is able to copy easily and accurately.** In your collection, add this **solidly-built COPY STAND** with the excellent stability of support.



AUXILIARY LENSES FOR PETRI PENTA

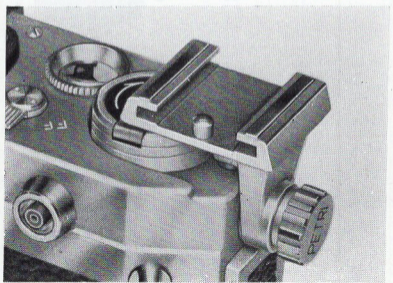
(TELEPHOTO & WIDE ANGLE LENS)



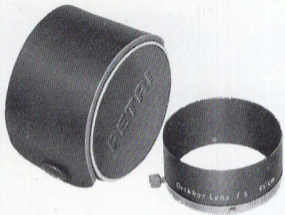
Hard coated, color-corrected precision accessory lenses offer exceptional powerful magnification, superior definition and outstanding contrast. NO ADAPTERS NEEDED : Lenses screw into threaded barrel of standard lens of PETRI PENTA. Each Auxiliary lens for PETRI PENTA is precision tested for mechanical perfection.

ACCESSORY SHOE ATTACHMENT

Sturdy and versatile screw-in type accessory shoe attachment for flash-gun is another PETRI PENTA exclusive !



PETRI HOODS



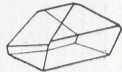
The PETRI LENS HOOD has been carefully designed to prevent stray light from entering your lens.

It is constructed of light alloy metal and smartly styled to enhance the beauty of the PETRI PENTA.

PETRI FILTERS

In order to insure perfect picture in all kinds of light conditions it is necessary for you to choose the proper filters for your camera. The PETRI FILTERS **manufactured of the highest quality optical ingredients and subjected to the most rigid tests** are available for your camera.





For BLACK and WHITE pictures

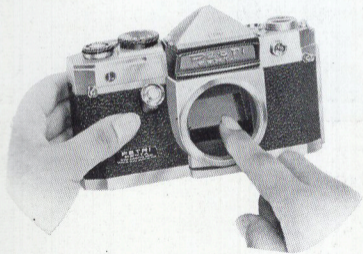
- Y1** - For the landscape with a blue sky as background, portrait, buildings and flowers, Both are
- Y2** - especially conducive to the subject of moderate and clear contrast.
- YA3** - It darkens sky and makes subject stand up when taking the mountains and a distant view
- R1** - It blackens sky and exceedingly emphasizes subject which is mostly used for taking the pictures from airplane.

For COLOR pictures

- PO1** - For the colorful subjects and natural texture skin and complexion.
- UV** - It absorbs the ultraviolet rays.
- W4** - For the bluish subjects or the mountains.
- C4** - Especially be used within 2 hours before and after sunset.
- C8** - It absorbs yellow in using the white flash bulb.
- C12** - For the subjects under the flood lamp or the flood-light (3,200°K)

PETRI PENTA





NOTICE:

Do not touch the mirror. In case any dust caught inside the mirror, just puff it away by a rubber-blower.





PETRI

Kuribayashi Camera Industry, Inc.

Overseas Office :

**USA ★ EUROPE ★ CANADA ★ AUSTRALIA
★ SINGAPORE ★ TAIWAN ★ HONG KONG**

Printed in Japan