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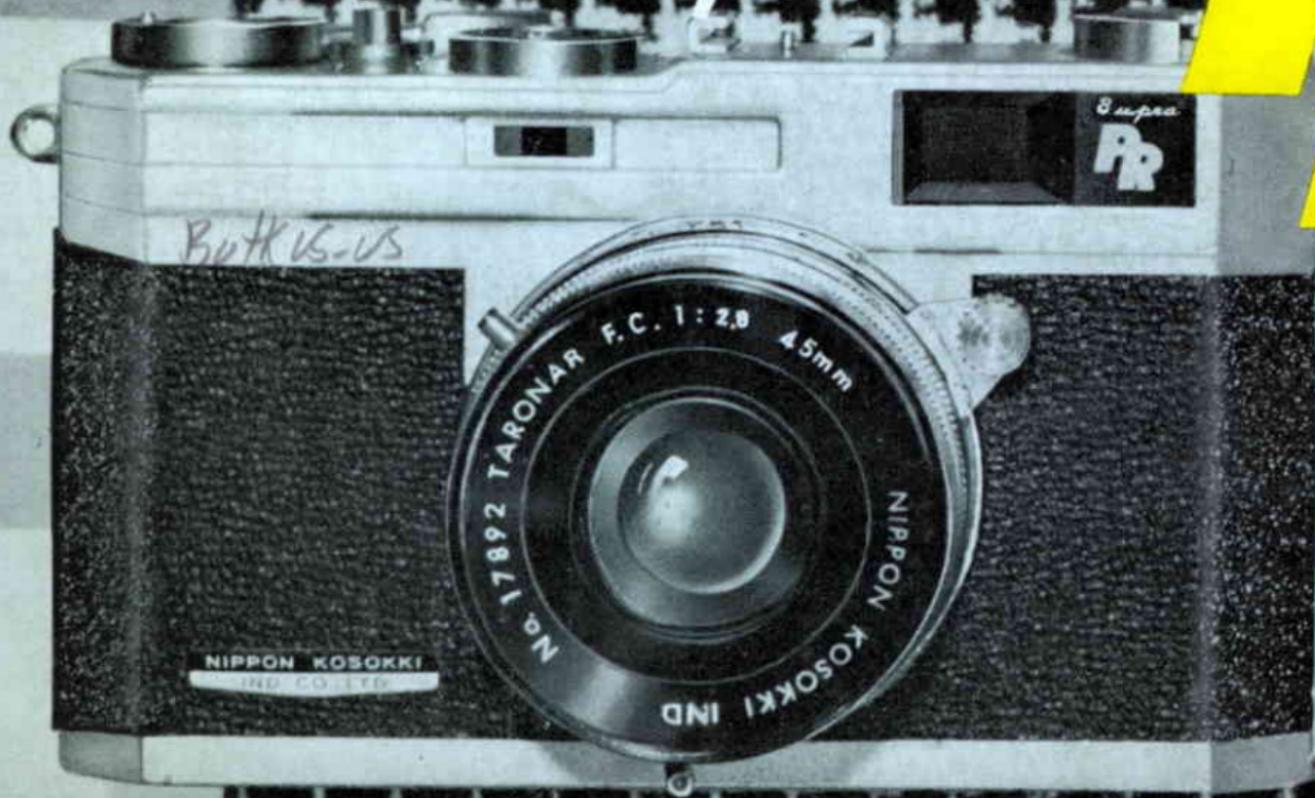
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Supra

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INSTRUCTIONS



INVITATION TO THE SUPRA PR CAMERA

It is agreed by every photographer who owns one of our cameras that the SUPRA ranks among the finest cameras in the world.

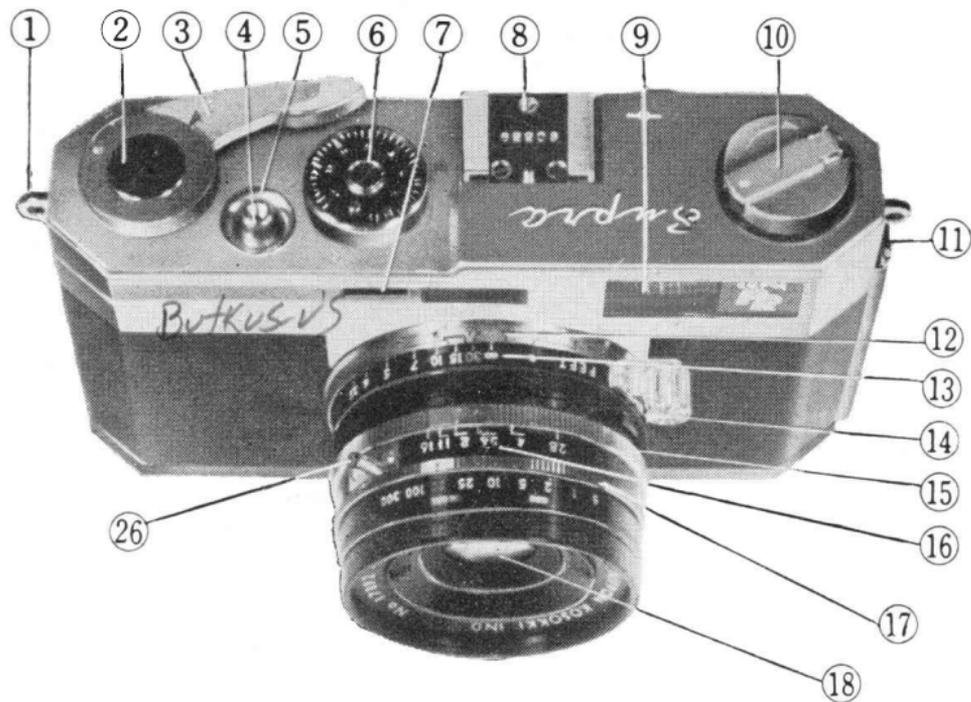
This Model PR has been equipped with the famous TARON XV shutter view-finder and other improvements which assure you of the adaptability and reliability to be expected only from quality cameras.

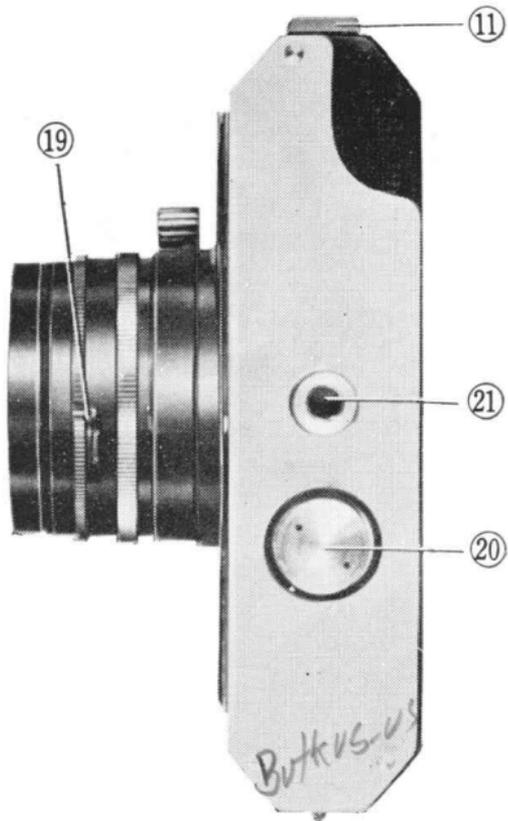
With confidence, we highly recommend our SUPRA-PR cameras, and appreciate your careful handling according to instruction given in this booklet.

NIPPON KOSOKKI IND. CO., LTD.,

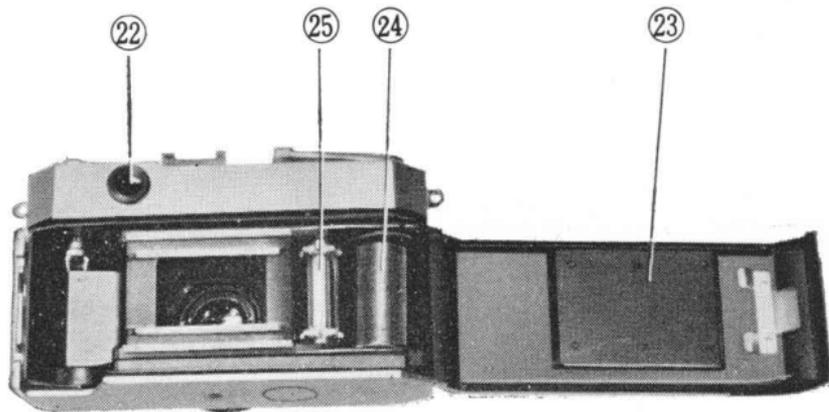
Tokyo Japan

1. Neck Strap Ring
2. ASA Indicator
3. Film Winding Lever
4. Shutter Release Button
5. Cable Release Mount
6. Film Counter
7. Range Window
8. Accessory Shoe
9. Finder Window
10. Film Rewinding Crank
11. Rear Cover Lock
12. Depth of Field Scale
13. Distance Scale
14. Focusing Lever
15. Iris Diaphragm Adjusting Ring
16. Iris Diaphragm Scale
17. Shutter Speed Adjusting Ring
18. Lens
19. Self-Timer Lever





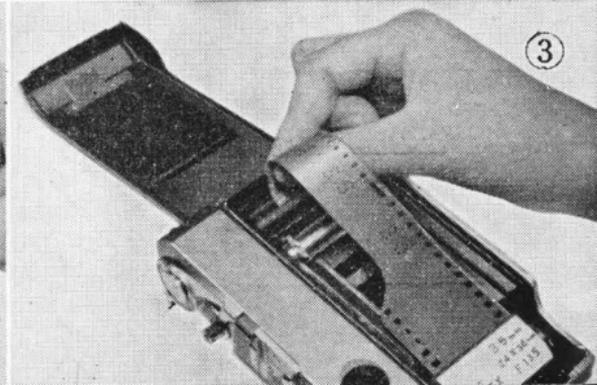
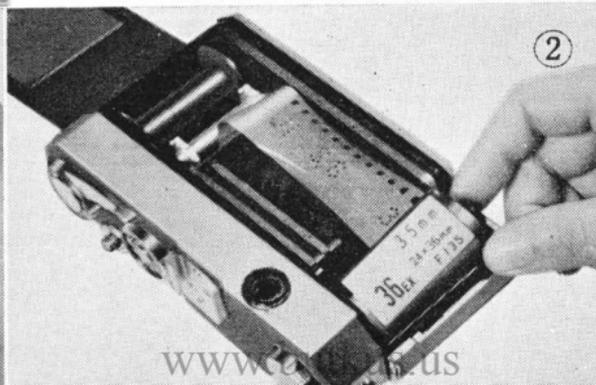
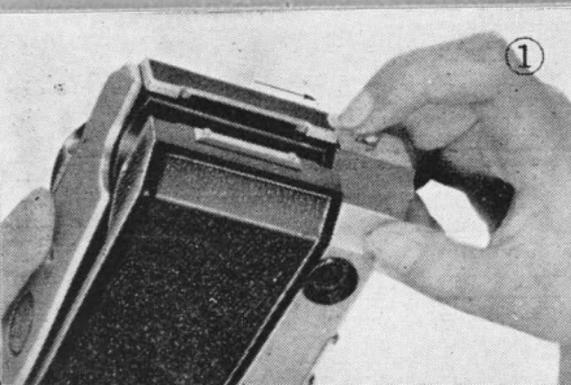
- 20. Film Rewinding Button
- 21. Tripod Mount
- 22. Coupled Range-Finder
- 23. Pressure Plate
- 24. Film Take-Up Spool
- 25. Film Sprocket
- 26. Synchro Flash Terminal



HOW TO LOAD FILM

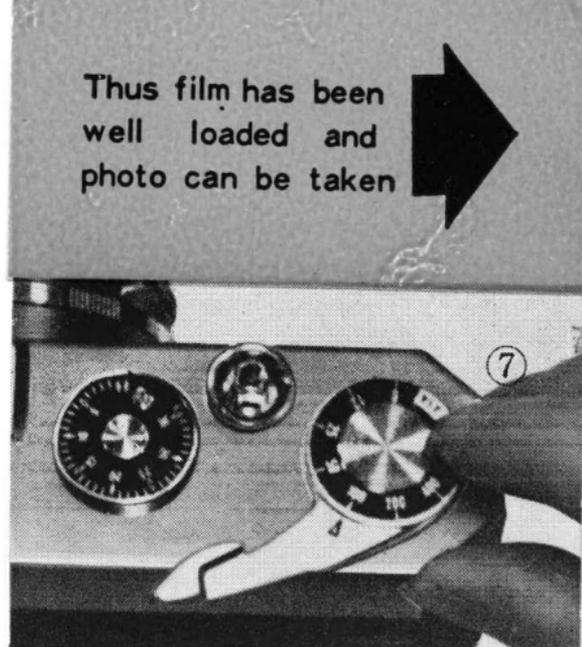
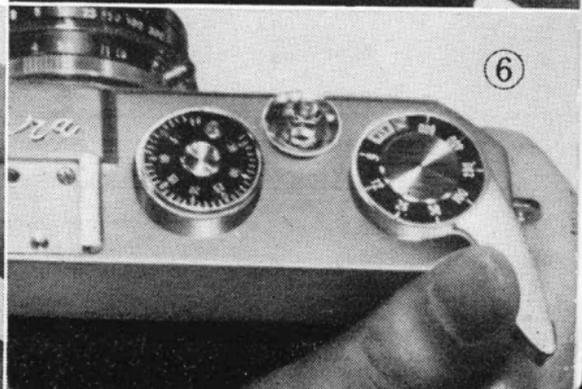
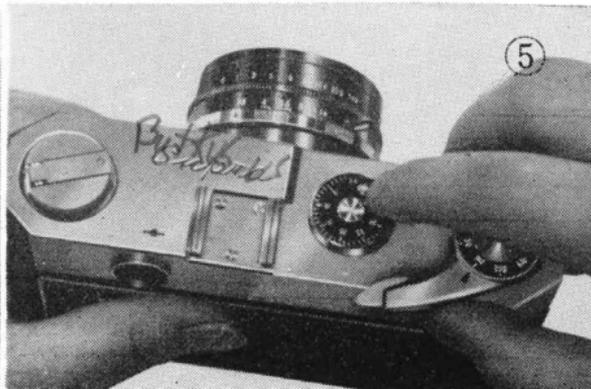
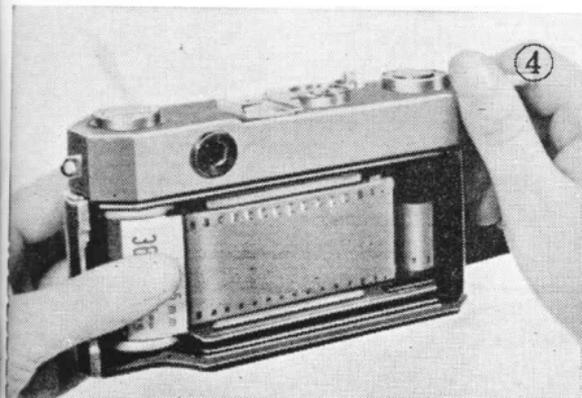
It is advisable for you to load film in the dark avoiding the direct sun light Please bear in mind that the camera should be carefully handled without applying any force to the mechanism, or you may cause damage.

- ① Open the rear cover of the camera by pulling up the lock.
- ② Place the film cartridge in the film chamber.
- ③ Draw out the film leader from the cartridge and insert it deeply into the slot of the take up spool.
- ④ Move the film winding lever slowly so that the sprocket teeth catch the film perforations and stretch the slackened film.



- ⑤ Close the rear cover and set the Film counter in start position.
- ⑥ After taking two blank shots, advance the film once more: the film counter now indicates "1", and you are ready for the first exposure.
- ⑦ It is advisable to set the ASA indicator according to the rating of the film being used.

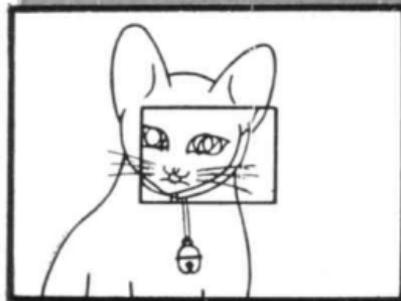
Thus film has been well loaded and photo can be taken





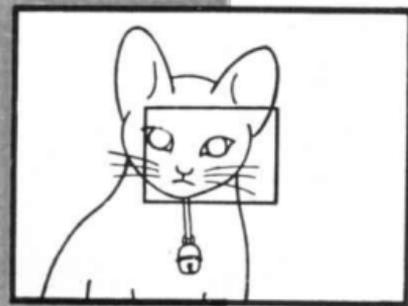
SUITABLE POSTURE WITH CAMERA

RANGE-FINDER



The picture is shown out of focus. Operate the focusing lever so that the double image fuses into one.

The picture is shown just in correct focus.



HOW TO READ DEPTH OF FIELD SCALE



Shutter speed adjusting ring.
Iris diaphragm adjusting ring.

The distance between the camera and the subject can be automatically measured by use of the coupled range-finder. Besides, you will know that the range of sharpness extends to the foreground as well as to the background of the subject.

This area of sharpness is called the depth of field and all objects within this range will appear in acceptable sharpness.

The depth of field is greater as the distance to the objects is increased or the lens aperture is reduced. Therefore, the depth of field relative to any given aperture can be easily obtained by reading the depth of field scale adjacent to the distance scale. When the lens is focused at an object 10 feet ahead of the camera with the F-stop set at F. 8, the scale will indicate that the depth of field extends from 7 feet to 16 feet ahead of the camera. When you get to know your camera, you will be capable of estimating the depth of field without reading the scale.

DEPTH OF FIELD TABLE

The skillful use of the Depth of Field Table will be very helpful in taking good pictures.

In actual shooting, you may refer to the Depth of Field Scale which adjoins the distance scale on the camera. It is advisable to learn by heart a rough summary of the Depth of Field for taking snapshots.

The table prepared here shows the correct Depth of Field of the Taronar F2.845mm lens; and it is recommended that you study the variations according to the F-stops.

FIXED FOCUSING

Fixed focus means to always keep focusing at a fixed distance making use of the Depth of Field as mentioned before and thus you are not required to have the trouble of adjusting the focus every time you photograph. This feature will be appreciated especially when you take pictures of fast-moving subjects. The fixed focus of this camera is set at the F-stop of "8" and the distance of 30 feet (the red mark), which means that objects within the range of 12 feet to infinity will be in focus and sharp.

DEPTH OF FIELD TABLE

T A R O N A R F 2.8 : f 45 mm

DISTANCE		F-STOPS	2.8	4	5.6	8	11	16	22
3.5 feet 1.066.8 mtrs	from		3.35	3.29	3.21	3.11	2.98	2.79	2.59
	to		3.66	3.74	3.84	4.01	4.24	4.68	5.36
4 feet 1.219.2 mtrs	from		3.80	3.73	3.63	3.49	3.34	3.10	2.86
	to		4.21	4.31	4.45	4.67	4.99	5.62	6.64
5 feet 1.524.0 mtrs	from		4.70	4.58	4.44	4.23	4.00	3.67	3.34
	to		5.34	5.50	5.72	6.10	6.66	7.83	9.93
7 feet 2.133.6 mtrs	from		6.43	6.21	5.95	5.58	5.20	4.65	4.12
	to		7.68	8.01	8.50	9.37	10.73	14.16	22.98
10 feet 3.048.0 mtrs	from		8.88	8.47	7.98	7.34	6.68	5.80	5.01
	to		11.45	12.20	13.38	15.65	19.86	36.03	154.89
15 feet 4.572.0 mtrs	from		12.61	11.80	10.87	9.73	8.59	7.19	6.02
	to		18.51	20.57	24.17	32.74	58.82	∞	∞
30 feet 9.144.0 mtrs	from		21.75	19.46	17.06	14.40	12.04	9.47	7.54
	to		48.33	65.48	128.28	∞	∞	∞	∞

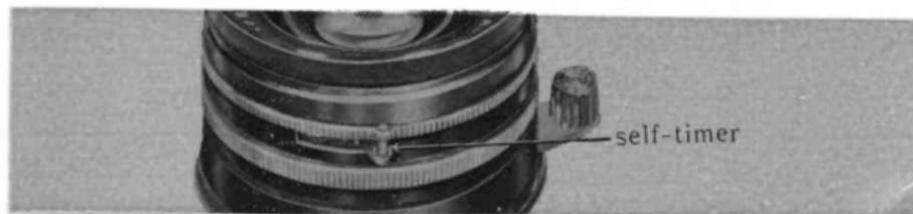
SYNCHRONIZATION PHOTO TAKING



In case flash photography is preferred, you can attach a pocket type flash-gun to the accessory shoe on top of the camera. A large-sized flash unit can be fixed onto the tripod mount by means of a bracket.

HOW TO USE SELF-TIMER

When you wish to take pictures by the help of the self-timer, move the self-timer lever until it stops. The shutter works at intervals of approx. 8 seconds after having been released. This gives you ample time for taking your own picture or commemorative shots.



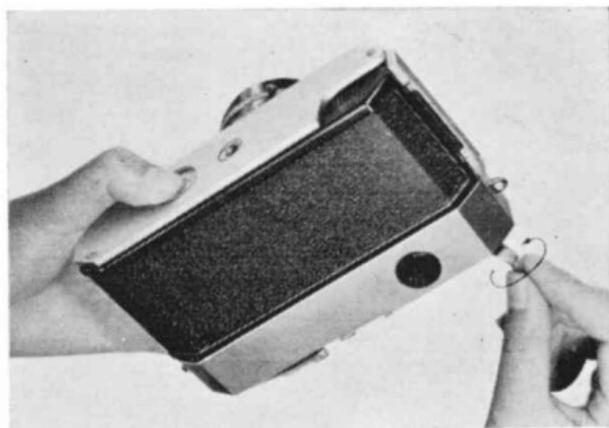
HOW TO USE RELEASE



When photo is taken at a speed of $1/10$ sec. or slower with a camera in hand, nice picture cannot be expected because of shaking. In order to avoid this, the camera should be fixed on tripod with fixed on the shutter button. As shown in the picture, the release should be curved in U-way.

HOW TO UNLOAD FILM

The film exposed to the last must be rewound into the original cartridge from the take-up spool. The Supra-35 Model PR is equipped with an originally designed winder which enables you to rewind the film rapidly and surely. Raise up the crank handle and wind back film to the cartridge pressing film rewinding button at the bottom of camera. After taking out the cartridge, lay down the crank handle in its position.



HOW TO SET HOOD AND FILTER

The size of filter and hood as follows:

Outside type 48mm

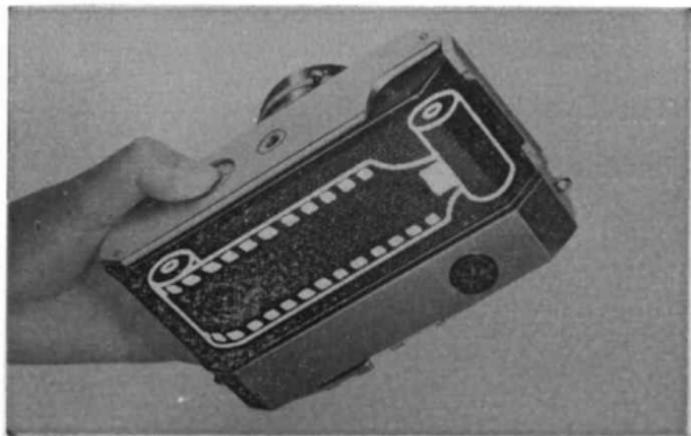
Inside type 46mm

The Supra PR is provided with a special hood and all sorts of filters.



CAUTION

When the entire roll of film has been exposed, it may happen that the winding lever will not advance for a full stroke. Do not try to force it any further as, by so doing, the film may either be sheared from the cartridge, or cause other damage. When the lever stops halfway, rewind the film by pushing the rewinding button down.



CARE OF YOUR CAMERA

- ① Avoid wiping the lens with a cloth or a fingertip. Dust it with a lens brush or wipe it softly with a silicone cloth.
- ② Do not leave your camera with the shutter cocked for too long a period as this strains the mechanism.
When your camera is not being used, set the distance scale at infinity.
- ③ When loading or unloading film, keep your camera away from dust and moisture. Before loading film, dust the film pressure plate with a lens brush to avoid injuring the film surface.
- ④ Remember to take special care of your camera immediately after having used it at the seashore or on rainy days.
- ⑤ If you drop your camera into the water, wash it with alcohol or another volatile liquid, lubricant with good machine oil and have it repaired as soon as possible.

EXPOSURE TABLE

ASA 100.DIN 21°(SUPER XX, ANSCO Type III DUPONT Type III.)

(Weather & object)	Fine Outdoor	Fine Outdoor (Full Portrait)	Fine Sunshade (Full Portrait)	Cloudy Outdoor	Fine Indoor Near Window (Full Portrait)	Rainy Outdoor	Snow Outdoor (Full Portrait)
(Season)	(Scenery)	(Portrait)	(Portrait)	(Scenery)	(Portrait)	(Scenery)	(Portrait)
Spring:	F 16 1/250	F 8 1/100	F 5.6 1/50	F 8 1/50	F 5.6 1/10	F 8 1/25	
Summer:	F 16 1/500	F 11 1/250	F 8 1/50	F 8 1/100	F 5.6 1/25	F 5.6 1/100	
Autumn:	F 11 1/100	F 8 1/100	F 8 1/25	F 8 1/50	F 4 1/10	F 8 1/25	
Winter:	F 8 1/100	F 5.6 1/100	F 5.6 1/50	F 5.6 1/50	F 4 1/10	F 4 1/25	F 11 1/25





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