

Your Kowa-H serves a dual function; it may be used either under the automatic EE system or by manual operation. As mentioned earlier, you will undoubtedly want to experiment, to try unusual lighting effects. Too, with manual control, more delicate exposure adjustments may be achieved. And the many fine accessories increase the scope of your photo fun with your Kowa-H.

- Care
- Close-Up
- Manual elephoto Selection Shutter Speed

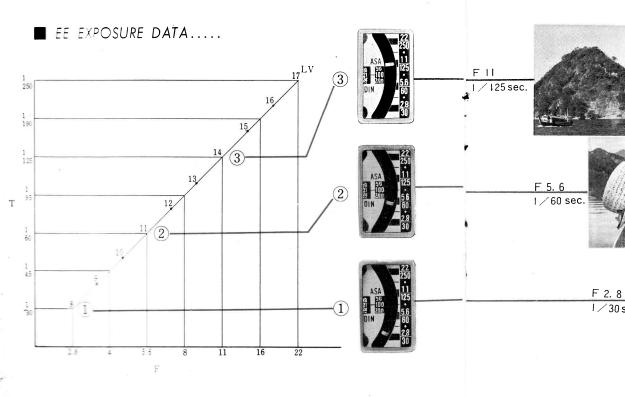
Shooting

And

Aperture

Data peration

Operation





F 5. 6 1/60 sec.



As shown in the graph on the preceeding page, the Kowa-H Programmed EE system shutter speed and aperture combinations data is represented by the straight analed line.

H

Data

Conditions Manual elephoto

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Manual

Operation

Selection

Of Shutter Speed

And

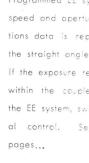
Aperture

e-Angle

Shooting

If the exposure required is not within the coupled range of the EE system, switch to monual control. See following pages...







■ USE MANUAL CONTROL UNDER THE FOLLOWING CONDITIONS.....

When filming subjects against the light or in strong contrast. Fix exposure on either the bright or dark area.



Against the light

Auto operation: F/8 at $^{1}/_{95}$ sec. Manual Operation: F/5.6 at $^{1}/_{60}$ sec.

Use smaller lens openings for close-up photography.



Close-up

Auto operation : F/8 at $^1/_{95}$ sec. Manual operation : F/11 at $^1/_{30}$ sec. (with Y filter)

For good results of scenic shots, adjust exposure to the light of the distant scene.



Window scene

Auto operation : F/5.6 at $^{1}/_{60}$ sec. Manual operation : F/4 at $^{1}/_{60}$ sec. Adjustments are required stronger filters.



View of sky-with filter

Auto operation: F/6 at ¹/₁₉, Manual operation: F/11 at sec. (with Y2 filter).

- Close-Up elephoto Lens, **Filters**

And

Hoods

Conditions For Manual

Manual Selection Of Shutter Speed Angle Shooting

And

Aperture

Operation

-djustments are required for pronger filters.



of sky-with filter

Auto operation : F/6 at $^{1}/_{190}$ sec. Manual operation: F/11 at 1/250 sec. (with Y2 filter).

Manual setting of the aperture is required when synchro filming, since it is determined by the filming distance.



Synchro

Manual operation: F/8 on any of the manual shutter speeds, or automatic.

Time exposures must be handled by manual control.

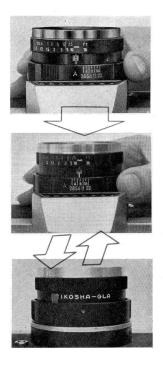


Night scene

Manual operation: F/2.8 B (1/8 sec.)

MANUAL SHUTTER AND APERTURE CONTROL

To change from EE to manual operation, disengage the automatic EE mechanism by rotating the letter A on the diaphragm ring. This way you may select any aperture and shutter speed combinations. The disconnected exposure meter may be used as a guide...an exclusive Kowa-H feature.









Manual operation is ture is fully opened of the shutter speed at With the EE system, h 5.6 at 1/60th is possi

- de-Angle
- Selection Of Shutter Speed

Aperture

- Manual

- Shooting And
- Hoods
- Close-Up



m











given subject.



For example, even if the shutter speed is

dropped there is no appreciable effect. Thus,

it may be very advantageous to use a smaller

aperture when achieving depth focusing of a







5 10

m

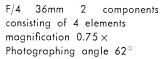
Manual operation is possible even if the aper-

ture is fully opened and it is desirable to set the shutter speed at the maximum of 1/300th. With the EE system, however, only the fixed F: 5.6 at 1/60th is possible.

■ ENJOYMENT UNLIMITED TELEPHOTO AND WIDE-ANGLE



WIDE-ANGLE LENS





WIDE-ANGLE



STANDARD LENS

F/2.8 48mm 3 components magnification $1.7 \times$ consisting 4 elements Photographing angl



STANDARD



TELEPHOTO LENS

F/4 82mm 4 components consisting of 6 elements magnification 1.7 \times Photographing angle 30°



TELEPHOTO



Accessory le the same a screw mount Accessory le F: 4—which your widest

Telephoto And

Wide-Angle Shooting

And

Hoods

Accessory lens mounting is the same as with a filter screw mount.

Accessory lenses remain at F: 4—which then becomes your widest opening.



■ FOR THE WONDERFUL EFFECTS OF CLOSE-UP PHOTOGRAPHY

No. 1: 40"~23"

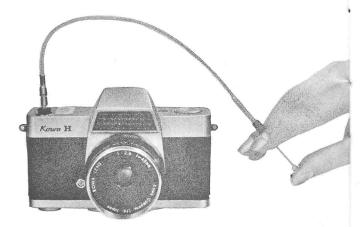
No. 2: 22"~16"

No. $1 + No. 2 : 16'' \sim 13''$

The enjoyment of close-up shooting is as simple as mounting the special Proxar lens to your Kowa-H. Avoid camera vibration during shooting.







FIL

Lens hood

eyelids' camera . ting the lexcessive The lens an absol for such s beaches a ains. In just as we the lens your came times.



Lens hoods are the "eyelids" of the camera ... protecting the lens from excessive glare. The lens hood is an absolute must for such scenes and mountains. In fact, it's just as well to have the lens hood on your camera at all times.





SYNCHRONIZED PHOTOGRAPHY



Make certain synchro cord is correctly connected.



Flash-gun can be secured on accessory shoe mounted to

The Kowa-H synchro contact is X; thus, strobe can be set to all manual shutter speeds. With M class flash bulbs, manual shutter speeds should be below 1/60th. 1/30th is best for safe and full synchronization.

Because synchro contact is at X, daytime synchronization requires high speed adjustment and strobe must be used. The exposure setting for this is determined by dividing the guide number of the electric flash bulb used and the picture distance. Set the aperture manually at the calculated figure.



. A CARING FOR YOUR KOWA-H

Use a special brush or blower to keep camera lens and body free of foreign matter. Moisture and finger marks should be aliced gently with a moist cloth, then came eter a grief in a shaded area.



Avoid extreme neat and high humidity conditions. Since the leather case absorbs moisture, it is well to remove the camerá from its case during periods of high humidity. During this time, it is most cavisable to store the camera in a dresser drawer or a similar spot. For best protection, pack it in a vinyl bag with moisture absorbers.





YOU ARE NOW READY FOR PHOTO-FUN WITH YOUR KOWA-H



- * Be sure to carry sufficient quantities of film on your picturetaking expeditions.
- * Accessory lenses change handling slightly. Take extra care to avoid vibration.
- * The depth-of-field scale charts at the right will prove helpful; keep this booklet handy for reference.
- * Your nearest Kowa service center address is shown on the registration and guarantee card. Don't hesitiate to contact them with any problems or questions you may have.

F/28 f=48 mm STANDARD 48 mm FOCUS DEPTH Unit:Meter

40 mm	•						
Ind of dist	2. 8	4	5. 6	8	11	16	22
00	00	00	00	00	00	000	00
	24.69	17.28	12.34	8.64	6.28	4.32	3.14
10	16.72	23.52	oc	00	œ	00	00
	7.14	6.36	5.56	4.67	3.90	3.06	2.44
5	6.24	6.99	8.32	11.65	23. 41	00	00
	4.17	3.90	3.58	3.20	2.82	2.36	1.97
3	3.40	3.61	3.93	4.53	5. 62	9.37	48.90
	2.69	2.57	2.43	2. 25	2.06	1.80	1.57
2	2.17	2. 25	2.37	2.57	2.88	3. 61	5. 20
	1.86	1.80	1.73	1.64	1.54	1.39	1.25
1. 5	1.59	1.63	1.69	1.79	1.94	2.24	2.75
	1:42	1.39	1.35	1.29	1.23	1.14	1.04
1. 2	1.26	1.28	1.32	1.38	1.46	1.62	1.87
	1.15	1.13	1.10	1.06	1.02	0.96	0.89
1. 0	1.04	1.06	1.08	1.12	1.17	1.27	1.41
	0.96	0.95	0.93	0.91	0.88	0.83	0.78

CONVERSION WIDE-ANGLE
36mm LENS FOCUS DEPTH Unit:m

Ind of dist	2. 8	4	5. 6	8	11	16	22
00		∞ 9.60	∞ 6.85	∞ 4.80	∞ 3. 49	∞ 2. 40	∞ 1.74
20	/	∞ 5. 20	∞ 4.29	∞ 3.39	∞ 2.70	∞ 2.01	∞ 1.55
10		13. 49 3. 57	30.65 3.12	∞ 2.62	∞ 2.19	∞ 1.72	∞ 1.37
5		4.00 2.21	4.78 2.03	6. 78 1. 81	14.32 1.59	∞ 1. 33	∞ 1.11
2. 5		1.68 1.26	1.80 1.20	2.02 1.12	2.39 1.04	3. 43 0. 92	7. 27 0. 81
1. 5		0.96 0.81	1.00 0.79	1.06 0.76	1.15 0.72	1.34 0.66	1.68 0.61
1. 2		0.77 0.67	0.79 0.65	0.83 0.63	0.88 0.60	0. 98 0. 56	1. 15 0. 52
ı		0.64 0.57	0.65 0.56	0.68 0.54	0.71 0.52	0.78 0.49	0.87 0.46

CONVERSION TELEPHOTO

=82 mm F	/4 82	2mm	LENS	FOCU	S DE	PTH	Unit : m
Ind of dist	2. 8	4	5. 6	8	11	16	22
80		∞ 49. 98	∞ 35.70	∞ 24.99	∞ 18.17	∞ 12.49	∞ 9.09
20		∞ 25. 95	∞ 21.51	∞ 17.13	∞ 13.65	∞ 10. 21	∞ 7.85
10		∞ 17.94	∞ 15. 70	∞ 13. 24	∞ 11.07	∞ 8.70	∞ 6.93
5		19.66 11.06	23. 29 10. 17	32. 26 9. 08	∞ 8.01	∞ 6.70	∞ 5.60
2. 5		8. 22 6. 22	8. 78 5. 93	9.80 5.55	11.46 5.13	15. 98 4. 57	30.50 4.03
1. 5		4.58 3.89	4. 75 3. 78	5. 03 3. 62	5. 42 3. 45	6. 25 3. 18	7. 64 2. 92
1. 2		3. 57 3. 14	3. 67 3. 07	3. 83 2. 97	4.06 2.85	4.50 2.67	5. 17 2. 48
1		2. 92 2. 63	2. 98 2. 58	3. 09 2. 50	3. 23 2. 42	3.50 2.29	3. 89 2. 15