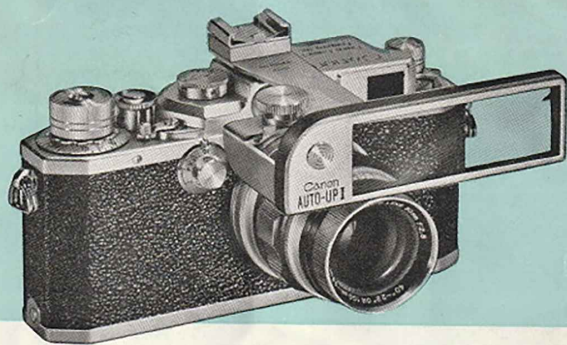


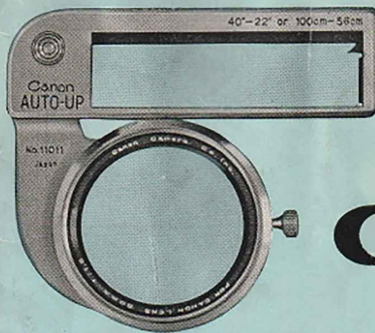
5T-2-56

CANON CAMERA COMPANY INC. TOKYO, JAPAN



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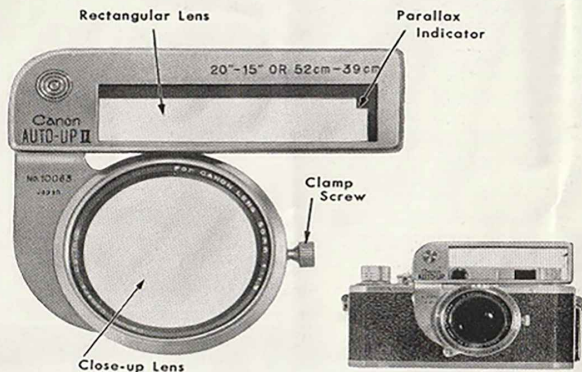
No. 315



Canon
AUTO-UP

Attachment Instructions

Auto-up No. 1 and No. 2: (for Canon lens 50mm f:1.5, 50mm f:1.8.) Slide the frame of the Supplementary Lens over the head of the Canon lens you are using and screw tight. Adjust the Rectangular Lens frame so that it is parallel to the camera.



Rangefinding

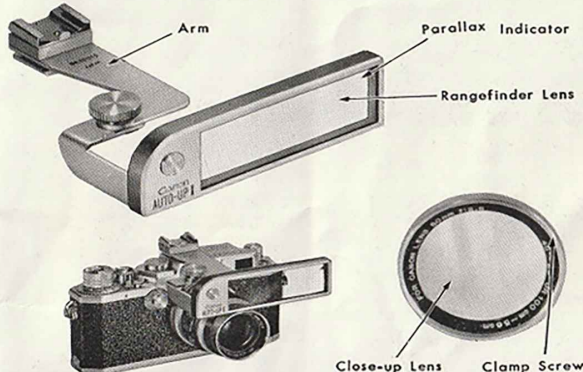
When you look through the window of the camera range-viewfinder, you see the object to be photographed as usual, but through the Rectangular Lens. Focus as you would normally: when the two images of the object coincide, you are in accurate focus. Pay no attention to the distance scale on your lens.

Viewfinding:

Normally, with a Canon Auto-up, part of the area you see through the viewfinder cannot be seen by the lens, and the lens will record a small area not visible through the viewfinder. This is known as parallax; when what you see and what you photograph are not identical areas. This error can be corrected quite easily by using a Canon Universal Viewfinder and Parallax Compensator. With these two accessories, you focus through the camera range-viewfinder, but you compose your picture through the Universal Viewfinder.

Auto-up No. 1: (for Canon lens 50mm f:2.8)

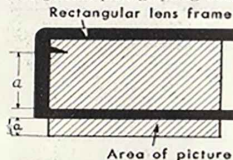
Slide the frame of the Supplementary Lens over the head of your Canon lens. Push the Arm of the Rectangular Lens into the accessory clip of the camera.



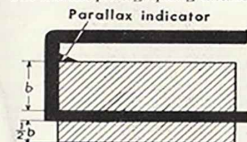
Picture Area and Parallax

Auto-up No. 1

The greatest photographing distance.

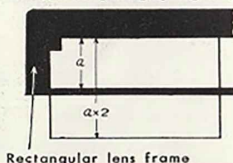


The shortest photographing distance.

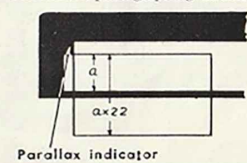


Auto-up No. 2

The greatest photographing distance.



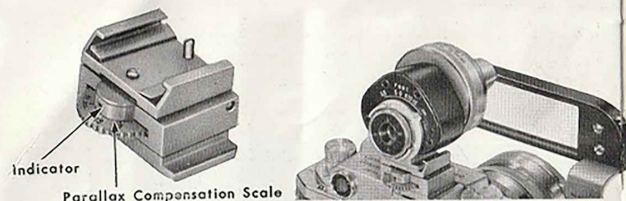
The shortest photographing distance.



The horizontal length is 1.5 times the vertical one. In case of medium photographing distance, it is necessary to adjust in accordance with the distance.

CANON AUTO-UP

The Canon Auto-up is a type of supplementary lens which may be used with any Canon 50mm lens to take close-up photographs of small object, such as insects, flowers, pieces of machinery, miniature object d'art, etc., where the photographer would not normally be able to get close enough with the ordinary lens. Two types of Canon Auto-up are available, as follows:



Parallax Compensator for Auto-ups

To compensate for parallax, set the Parallax Compensator at the same figure as shown on the Distance Scale of the lens, after you have focused. Please note that the distance shown on the scale in this case is not the real distance.

For Canon lens:

50mm f : 1.5
50mm f : 1.8
50mm f : 2.8

Auto-ups available:

No. 1 and No. 2
No. 1 and No. 2
No. 1 only

	Auto-up No. 1	Auto-up No. 2
Max. & Min. distance between film & object	3'2 3/4" ~ 1'9 7/8" 984mm ~ 539mm	1'8 5/8" ~ 1'3 1/8" 523mm ~ 378mm
Areas covered at above distances	2'7/8" × 1'4 1/2" ~ 1'5/8" × 8 1/2" 630mm × 420mm ~ 310mm × 207mm	1'3/4" × 8 1/4" ~ 8 1/4" × 5 1/2" 315mm × 210mm 204mm × 136mm

As the Canon Auto-ups have been specifically designed for use with regular Canon lenses, they will not give good results if used with any other make of lens.

Notes:

if you use Auto-up No. 1:

The parallax scale on the Universal Viewfinder itself should be set at infinity. ∞

To get the correct area of vision through the Universal Viewfinder, set the 50mm mark as shown in the illustration. (i. e. short hairline.)

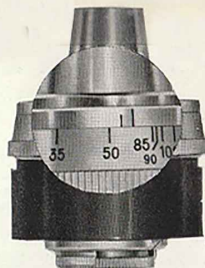
If you use Auto-up No. 2:

The parallax scale on the Universal Viewfinder itself should be set at 3.5 ft. (1m)

To get the correct area of vision through the Universal Viewfinder, set the 50mm mark as shown in the illustration (i. e. At a point equal to the distance between the short and long hairlines but on the other side of the short line.)

Lens Diaphragm Opening

It should be noted particularly that in close-up photography, the depth of field is very short because the camera is very near the object. You will get better results if you use as small a lens opening as possible and no wider opening than f:5.6.



No. 1 AUTO-UP DEPTH OF FIELD (ft)

Distance scale reading on lens ft	Actual distance between object and film ft-in	Area in focus								Area covered by lens ft-in
		f: 5.6		f: 8		f: 11		f: 16		
		near ft-in	far ft-in	near ft-in	far ft-in	near ft-in	far ft-in	near ft-in	far ft-in	
∞	3' 2 3/4"	3' 1/4"	3' 5 1/4"	2' 11 3/8"	3' 6 3/4"	2' 10 1/8"	3' 8 1/2"	2' 8 1/4"	3' 11 1/2"	2' 1/4" × 1' 4 1/2"
50	3'	2' 10 3/8"	3' 3"	2' 10"	3' 4"	2' 9"	3' 5 1/2"	2' 7 3/8"	3' 8 1/2"	1' 11 1/8" × 1' 3 3/8"
25	2' 11"	2' 9 3/8"	3' 1"	2' 8 1/4"	3' 1 1/8"	2' 7 3/8"	3' 3 1/4"	2' 6 1/4"	3' 5 1/8"	1' 10 1/8" × 1' 2 3/8"
15	2' 8 3/4"	2' 7 1/4"	2' 10 1/2"	2' 6 3/4"	2' 11 3/8"	2' 5 7/8"	3' 3"	2' 4 3/4"	3' 2 3/8"	1' 8 3/8" × 1' 1 3/8"
10	2' 5 3/4"	2' 5 1/8"	2' 8"	2' 4 3/8"	2' 8 3/8"	2' 4"	2' 9 1/2"	3' 2"	3' 2' 11 1/2"	1' 6 3/8" × 1' 8 3/8"
8	2' 4 3/8"	2' 3 3/8"	2' 6 1/4"	2' 3 1/4"	2' 6 1/4"	2' 2 1/4"	2' 7 3/8"	2' 1 3/4"	2' 9"	1' 6 1/8" × 1 11 1/8"
6	2' 2 3/8"	2' 1 3/8"	2' 3 3/4"	2' 1 1/2"	2' 4 1/4"	2' 2 3/8"	2' 4 1/4"	2' 2"	2' 6"	1' 4 1/8" × 1' 10 1/8"
5	2' 1 3/8"	2' 1 1/4"	2' 2"	1' 11 1/8"	2' 2 1/4"	1' 11 1/8"	2' 3"	1' 10 1/4"	2' 4"	1' 3" × 1' 10"
4	1' 11 1/8"	1' 10 3/8"	1' 11 1/8"	1' 10 1/4"	2' 1 1/4"	9 3/4"	1' 8 3/4"	1' 9 1/4"	2' 1 1/4"	1' 1 3/8" × 9"
3.5	1' 9 3/8"	1' 9 1/4"	1' 10 1/8"	1' 9"	1' 10 3/8"	1' 8 3/8"	1' 11 1/4"	1' 8 1/8"	1' 11 1/8"	1' 3/8" × 8 3/8"

No. 1 AUTO-UP DEPTH OF FIELD (m)

Distance scale reading on lens m.	Actual distance between object and film m. m.	Area in focus								Area covered by lens m. m.
		f: 5.6		f: 8		f: 11		f: 16		
		near m. m.	far m. m.	near m. m.	far m. m.	near m. m.	far m. m.	near m. m.	far m. m.	
∞	984	928	1048	906	1079	880	1120	840	1197	630 × 420
20	945	893	1004	873	1031	849	1068	811	1136	602 × 402
10	909	861	963	842	988	820	1021	785	1082	587 × 392
7	880	836	930	818	953	797	984	764	1041	554 × 370
5	844	804	890	787	911	768	939	738	990	531 × 354
4	816	778	857	763	877	745	902	717	949	511 × 341
3	771	738	808	724	825	708	848	683	888	479 × 319
2.5	740	709	773	697	788	682	809	659	845	455 × 304
2	696	670	725	659	739	646	754	625	787	424 × 283
1.75	693	644	695	634	707	622	723	603	751	402 × 268
1.5	634	613	658	604	669	593	682	576	707	379 × 253
1.25	592	574	612	566	621	557	633	542	654	349 × 233
1	539	524	555	518	562	510	571	498	587	310 × 207

No. 2 AUTO-UP DEPTH OF FIELD (ft)

Distance scale reading on lens ft	Actual distance between object and film ft-in	Area in focus								Area covered by lens ft-in
		f: 5.6		f: 8		f: 11		f: 16		
		near ft-in	far ft-in	near ft-in	far ft-in	near ft-in	far ft-in	near ft-in	far ft-in	
∞	1' 8 3/8"	1' 8"	1' 9 1/2"	1' 7 1/8"	1' 9 1/2"	1' 7 1/8"	1' 9 1/2"	1' 7 1/4"	1' 10 1/4"	1' 8 1/8" × 8 1/8"
50	1' 8 3/8"	1' 7 1/2"	1' 8 3/8"	1' 7 3/8"	1' 8 3/8"	1' 7"	1' 9 1/4"	1' 6 3/4"	1' 9 3/8"	1' × 8
25	1' 7 3/8"	1' 7 1/8"	1' 8 3/8"	1' 6 3/8"	1' 8 3/8"	1' 6 3/8"	1' 8 3/8"	1' 6 1/4"	1' 9 1/4"	11 1/8" × 7 3/8"
15	1' 7"	1' 6 1/2"	1' 7 1/2"	1' 6 1/8"	1' 7 3/8"	1' 6 1/8"	1' 8"	1' 5 3/4"	1' 8 1/2"	11 1/8" × 7 1/4"
10	1' 6 1/8"	1' 5 1/4"	1' 6 3/8"	1' 5 3/8"	1' 7"	1' 5 3/8"	1' 7 1/4"	1' 5 1/4"	1' 7 3/8"	10 3/8" × 7 1/4"
8	1' 5 1/8"	1' 5 3/8"	1' 6 1/4"	1' 5 1/8"	1' 6 3/8"	1' 5"	1' 6 3/8"	1' 4 3/4"	1' 7"	10 1/8" × 6 3/8"
6	1' 5"	1' 4 3/8"	1' 5 3/8"	1' 4 3/8"	1' 5 1/4"	1' 4 1/4"	1' 5 1/4"	1' 4"	1' 6 1/4"	9 3/8" × 6 1/4"
5	1' 4 1/2"	1' 4 1/8"	1' 4 3/4"	1' 4"	1' 4 3/8"	1' 3 3/4"	1' 5 1/4"	1' 3 1/4"	1' 5 1/4"	9 1/4" × 6 1/4"
4	1' 3 3/8"	1' 3 3/8"	1' 4"	1' 3 1/4"	1' 4 1/4"	1' 3 3/8"	1' 4 1/4"	1' 2 3/4"	1' 4 3/8"	8 3/8" × 5 3/8"
3.5	1' 3 1/8"	1' 2 3/8"	1' 3 3/8"	1' 2 1/4"	1' 3 1/4"	1' 2 3/8"	1' 3 1/4"	1' 2 1/4"	1' 4"	8 1/4" × 5 1/4"

No. 2 AUTO-UP DEPTH OF FIELD (m)

Distance scale reading on lens m.	Actual distance between object and film m, m.	Area in focus								Area covered by lens m. m.
		f: 5.6		f: 8		f: 11		f: 16		
		near m, m.	far m, m.	near m, m.	far m, m.	near m, m.	far m, m.	near m, m.	far m, m.	
∞	523	508	539	502	546	495	555	484	571	315 × 210
20	513	499	529	493	535	487	543	475	559	308 × 205
10	504	490	518	485	524	478	532	467	547	301 × 200
7	496	483	509	478	515	471	523	461	537	295 × 196
5	486	473	499	468	504	462	512	452	525	287 × 191
4	477	465	489	460	495	455	502	445	515	280 × 187
3	464	453	475	448	480	443	487	431	498	270 × 180
2.5	453	443	464	439	469	433	475	425	486	262 × 175
2	439	429	449	425	453	420	459	413	469	251 × 167
1.75	429	420	438	416	442	412	448	404	457	244 × 162
1.5	416	408	425	404	429	400	434	393	443	234 × 156
1.25	400	392	408	389	411	385	416	379	424	222 × 148
1	378	371	385	369	388	365	392	360	398	204 × 136