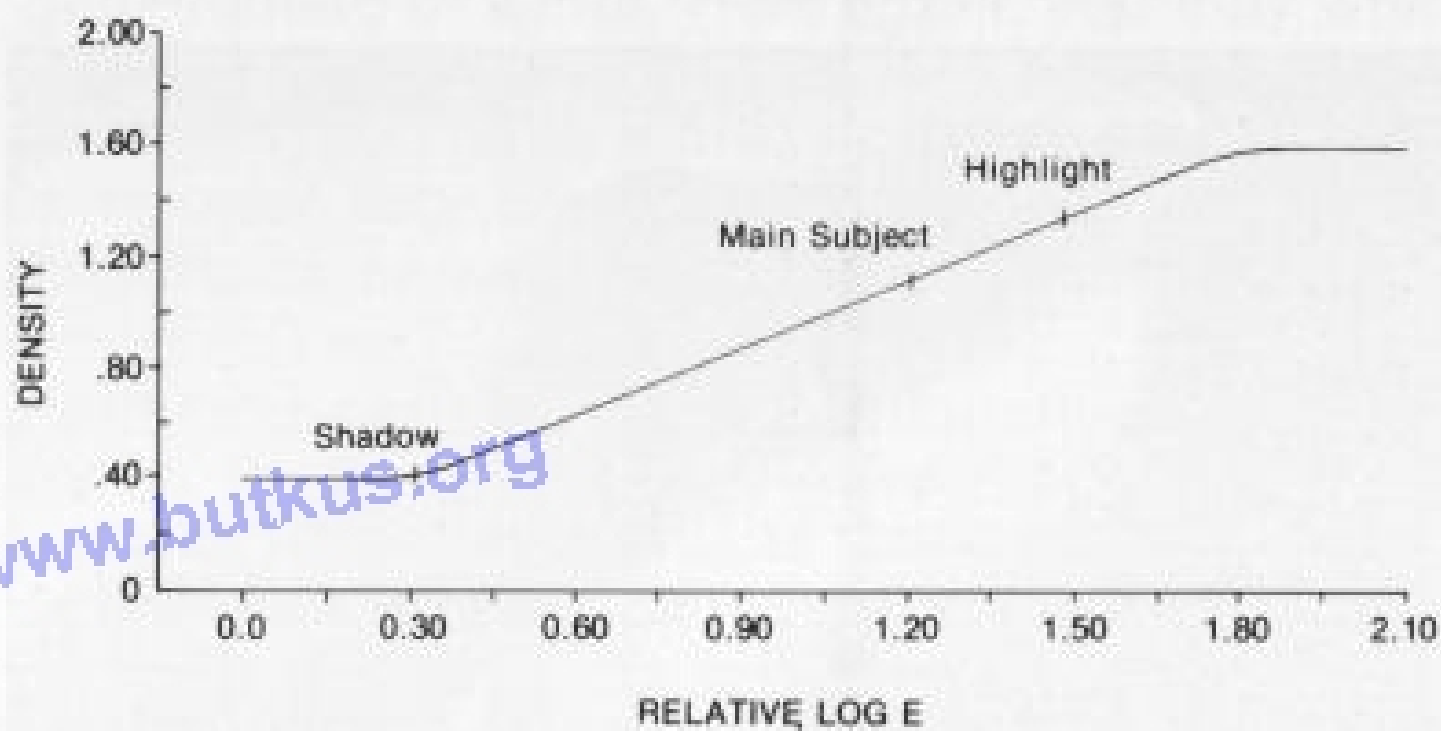
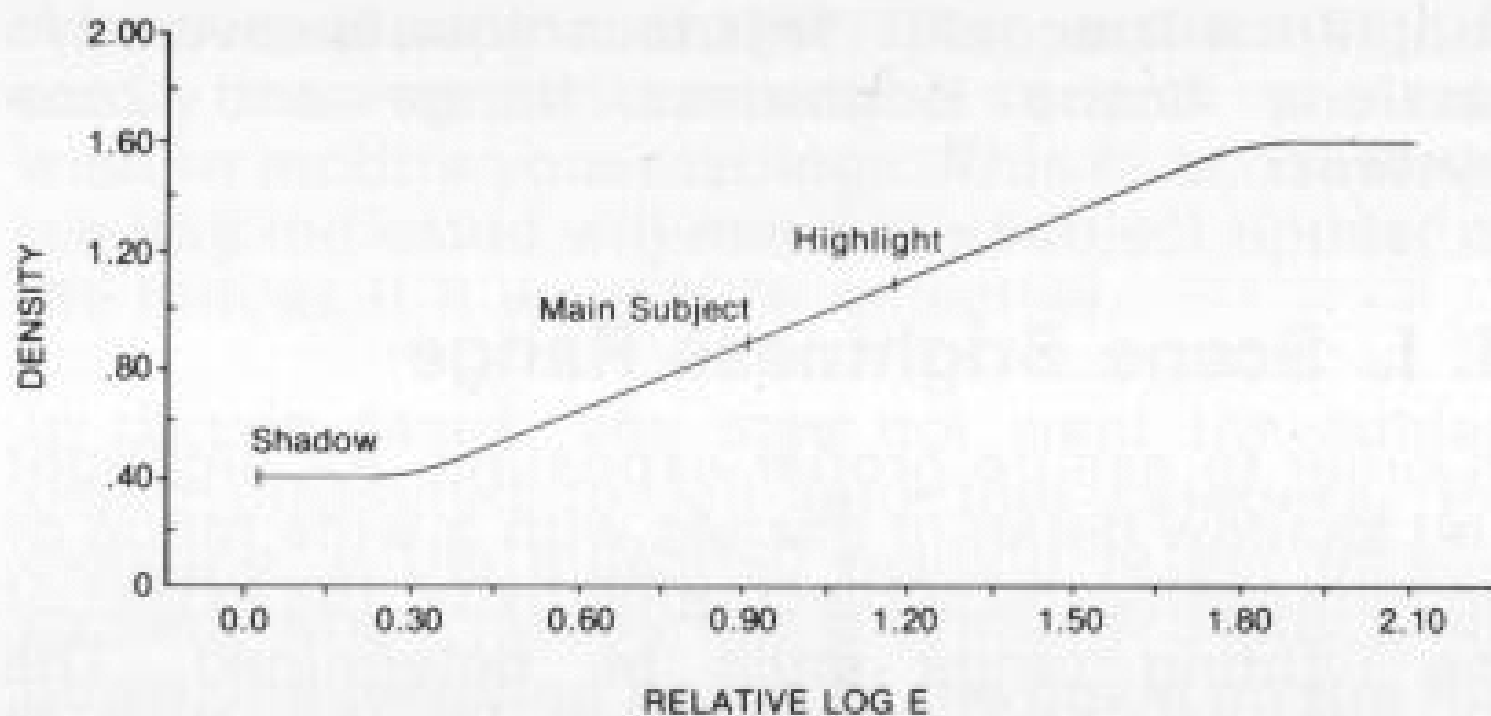






$$(\sqrt{2}) \cdot 25 = (1.414) \cdot 25 = 1.09$$

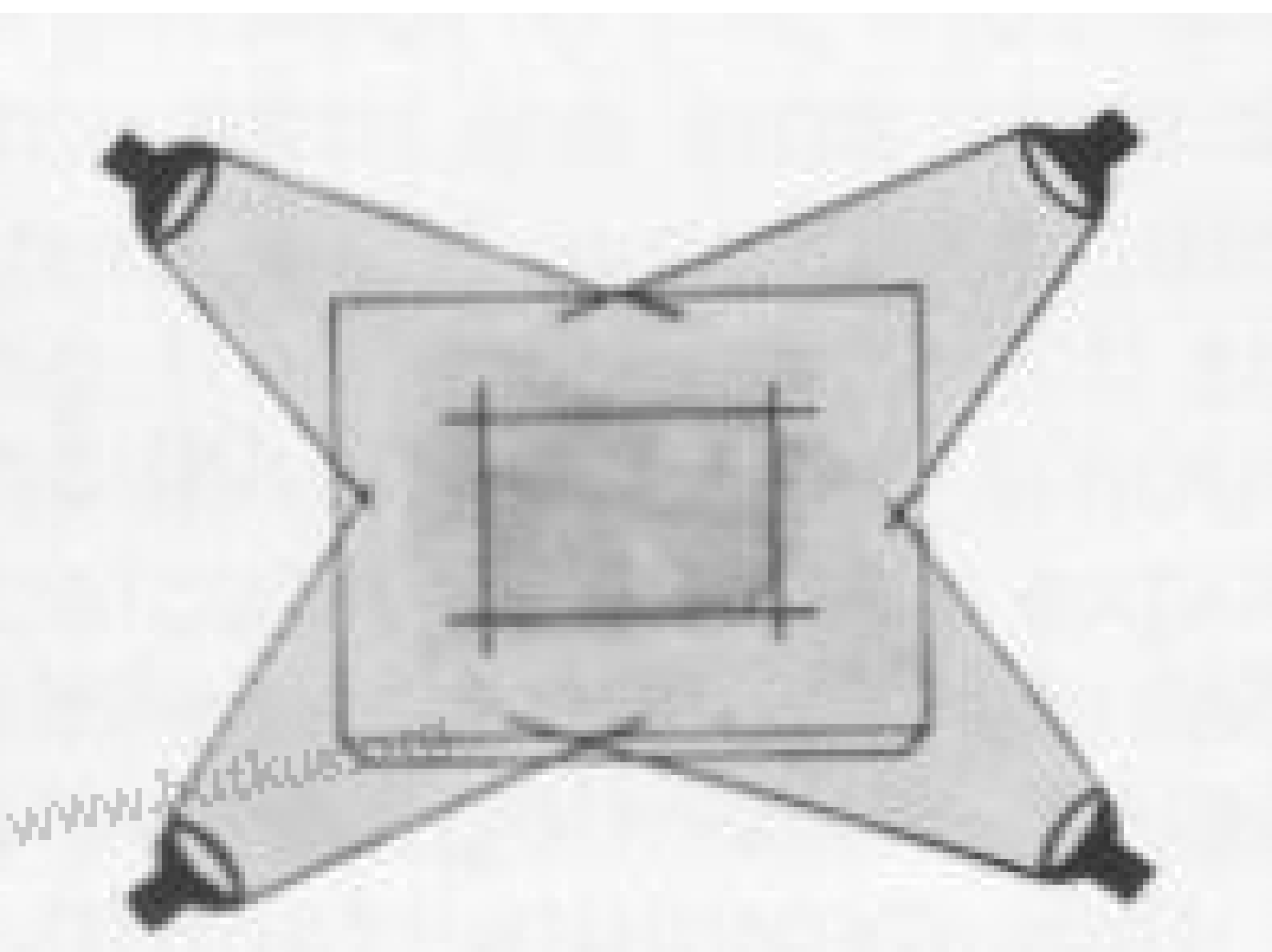
Next multiply 4 times 1.09

$$(4) (1.09) = 4.36$$

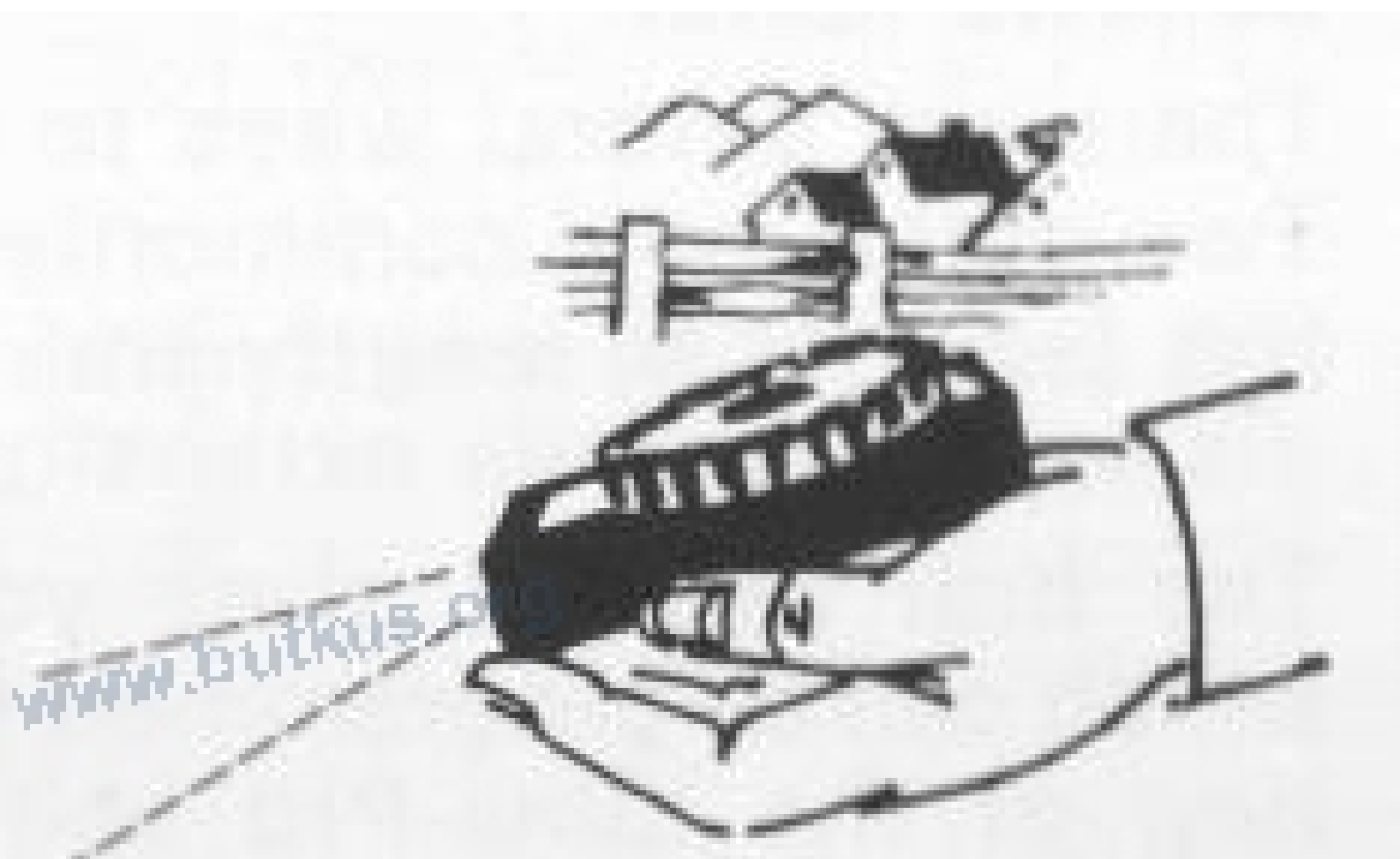
Time:	1/1000	1/500	1/250	1/125
f/	2	2.8	4	5.6
Time:	1/60	1/30	1/15	1/8
f/	8	11	16	22

$$\begin{aligned}\text{New footcandle level} &= (\text{old level}) (2 \text{ (f/stop change)}) \\ &= (1000) (2 \text{ (.5)}) \\ &= (1000) (1.414) \\ &= 1414\end{aligned}$$





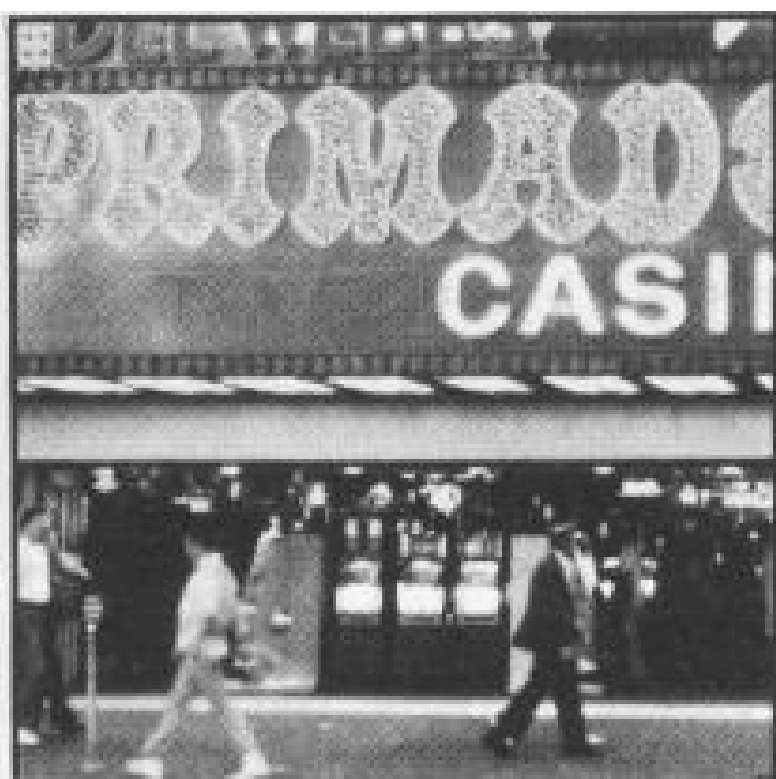






1. Extension Factor =

$$\frac{(\text{Lens to film plane distance})^2}{(\text{Lens focal length})^2}$$



$$\text{Extension Factor} = \frac{(14)^2}{(8)^2}$$

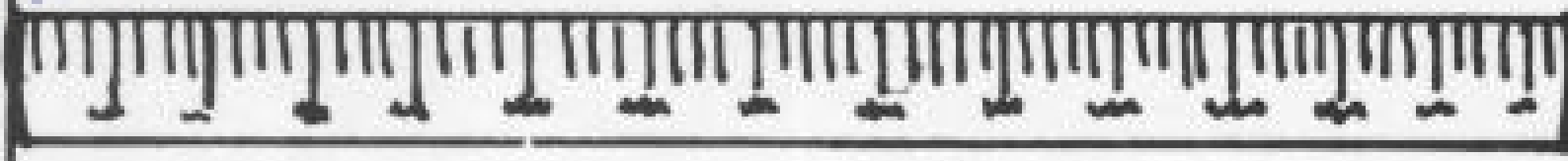
$$= \frac{196}{64}$$

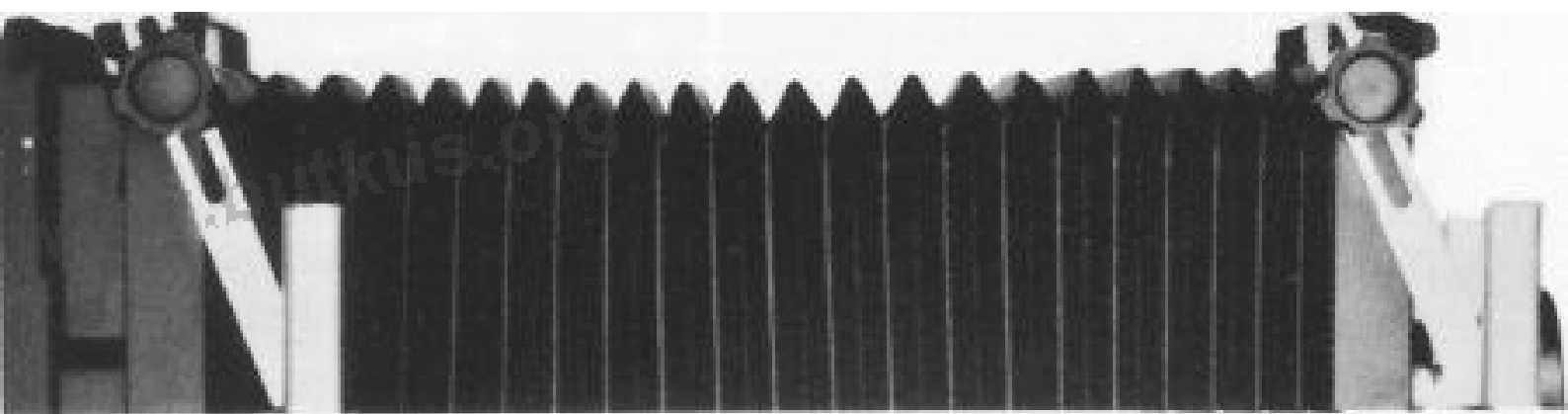
$$= 3.06 \text{ or approximately } 3$$

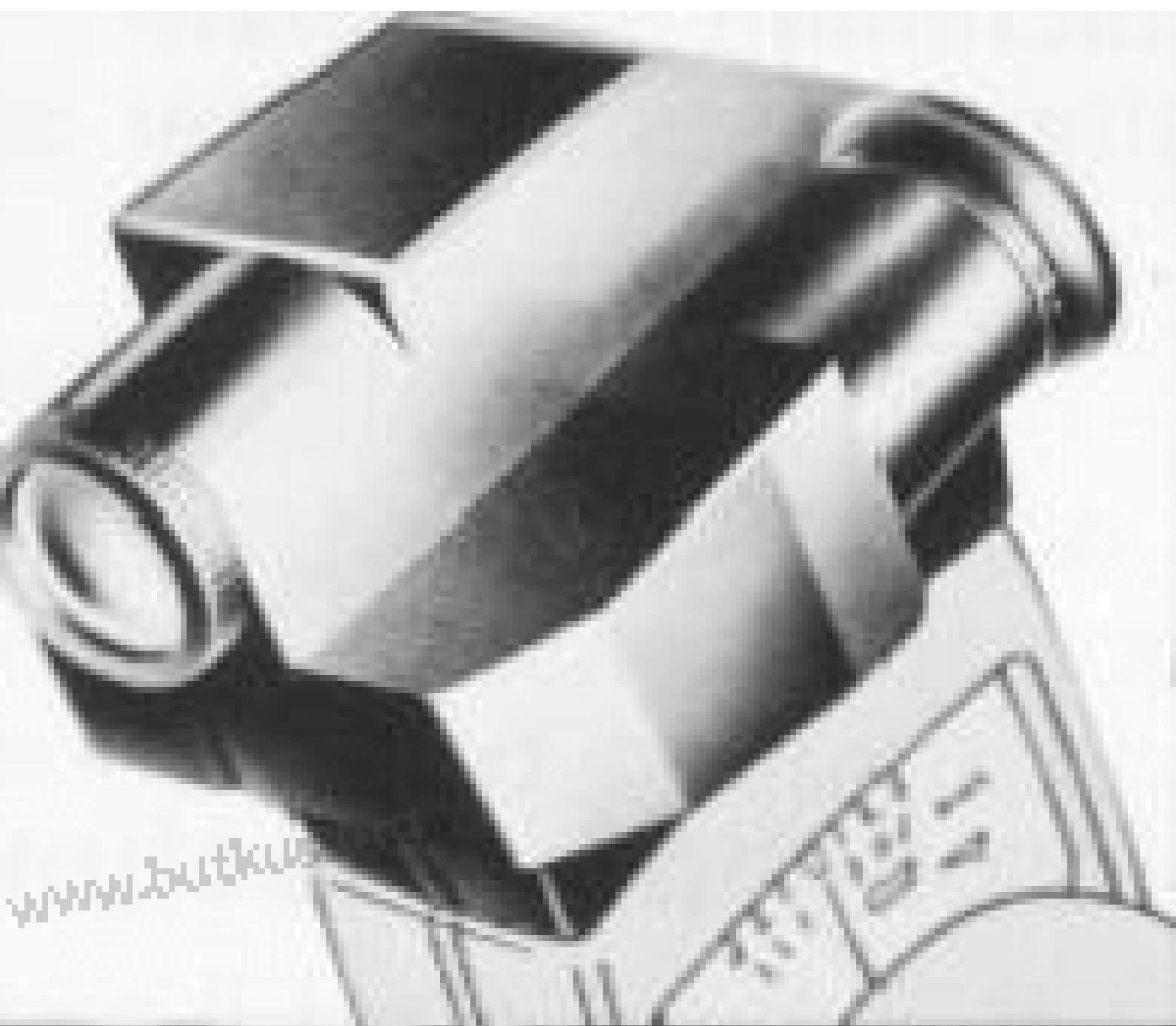
$$\text{Effective Aperture} = \frac{(\text{Lens to film plane distance}) (\text{Indicated f/stop})}{(\text{Lens focal length})}$$

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14"





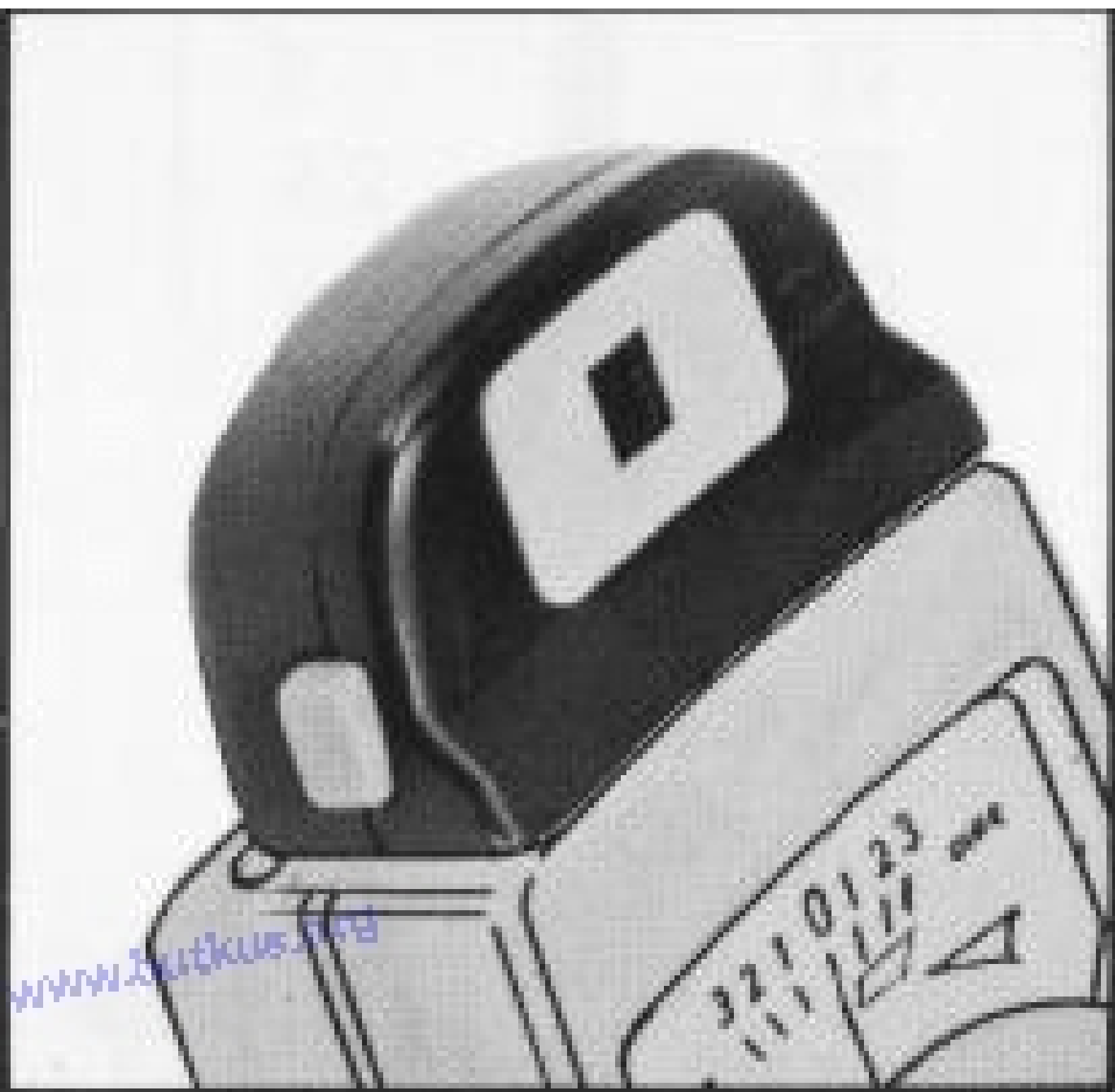












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Section V

Intermediate F/Stop Values

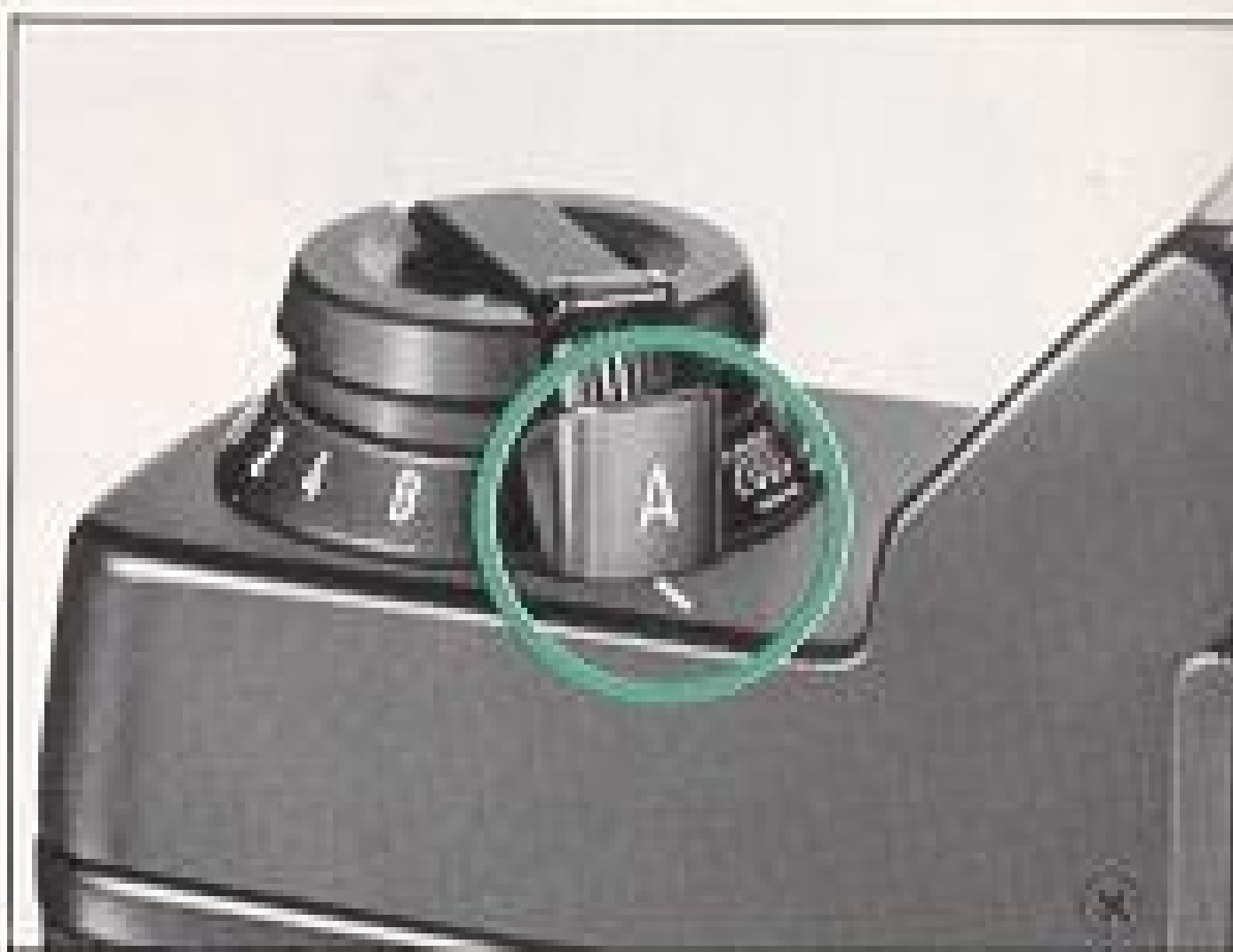
.7	2.8	11	45
.8	3.2	13	51
.9	3.5	14	57
1	4	16	64
1.1	4.5	18	72
1.3	5	20	81
1.4	5.6	22	90
1.6	6.3	25	101
1.8	7	29	113
2	8	32	128
2.2	9	36	
2.5	10	40	



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Out of focus

Unschärf



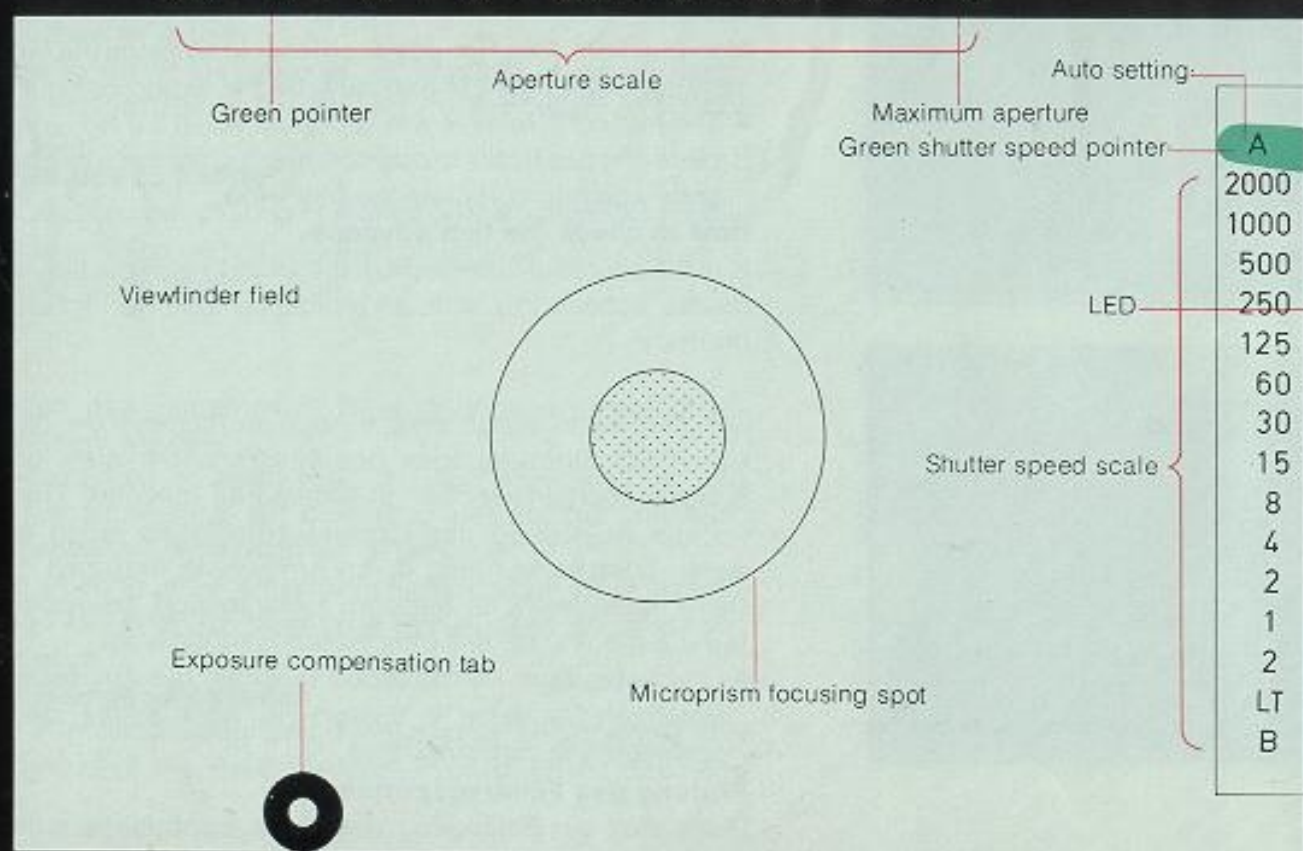


2 • 14

A
2000
1000
500
250



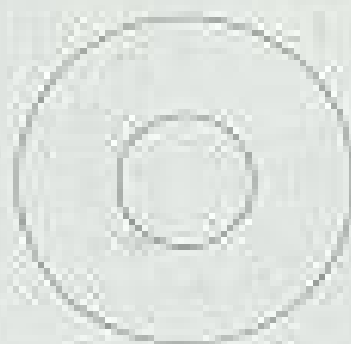
22 • 16 • 11 • 8 • 5.6 • 4 • 2.8 • 2 • 1.4





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22 + 16 + 11 + 8 + 56 + 4 + 28 + 2 + 14



A

2000

1500

500

250

125

60

30

15

8

4

2

1

0.5

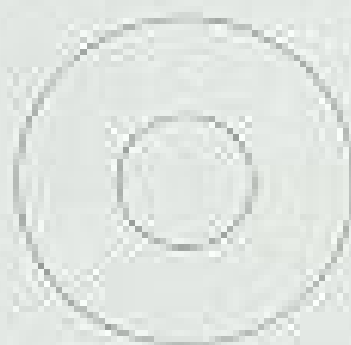
0.25

0.125

0.0625



22 + 16 + 11 + 8 + 58 + 4 + 28 + 2 + 14

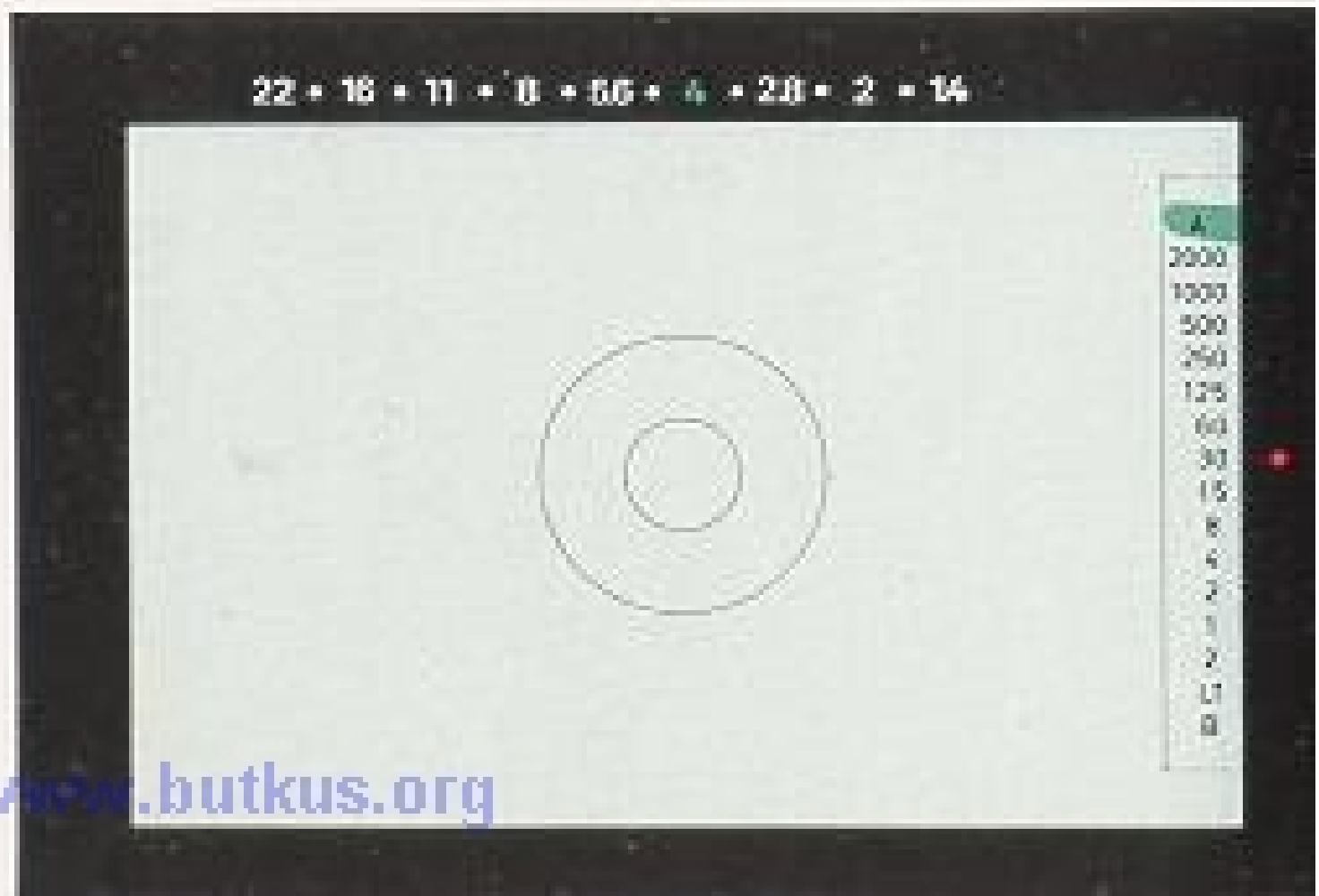
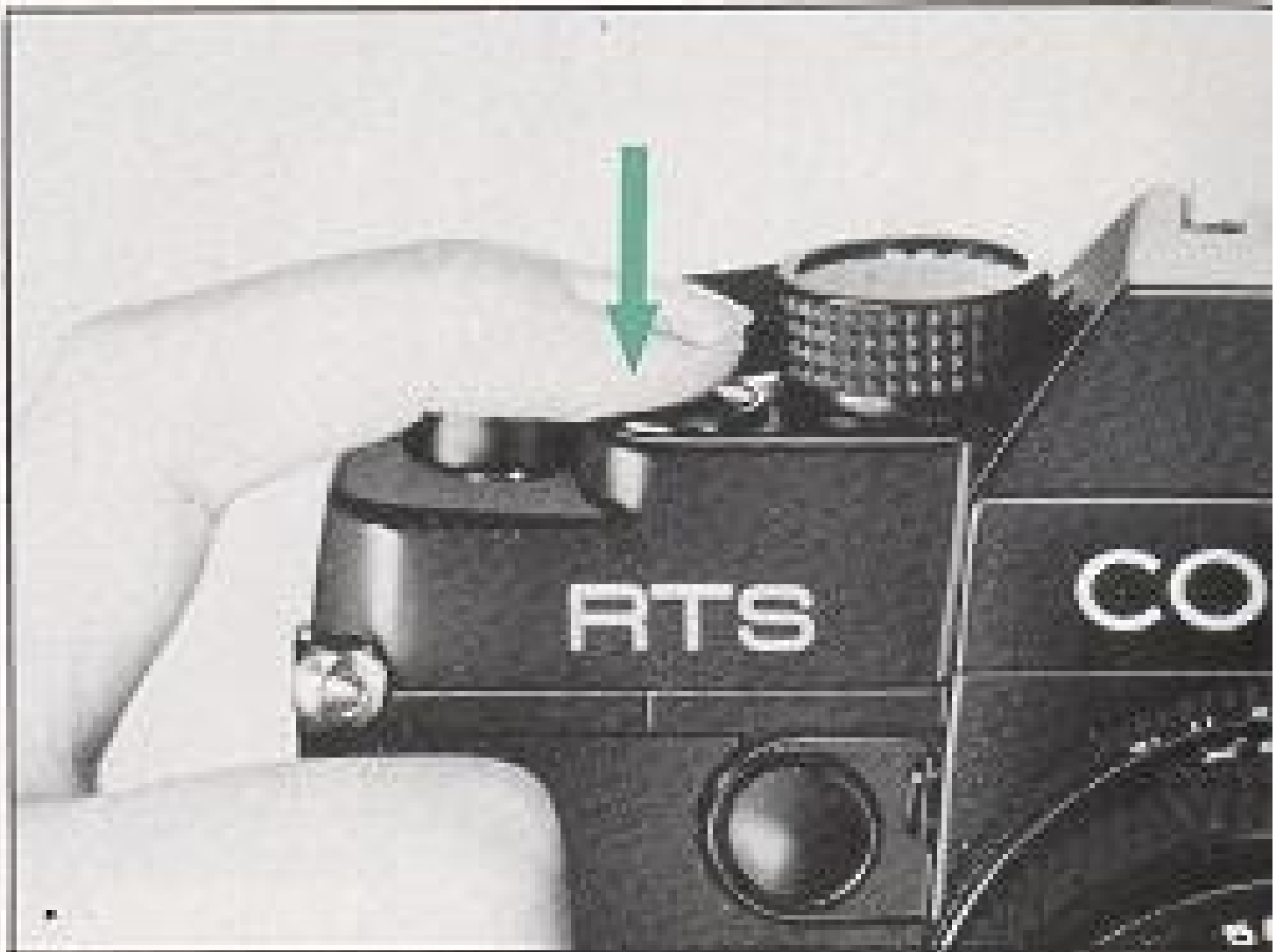


2000
1000
500
250
125
62
31
15
8
4
2
1
0.5
0

22 • 18 • 11 • 8 • 56 • 4 • 28 • 2 • 14



A
2000
1000
500
250
125
60
30
15
8
4
2
1
2
17
8



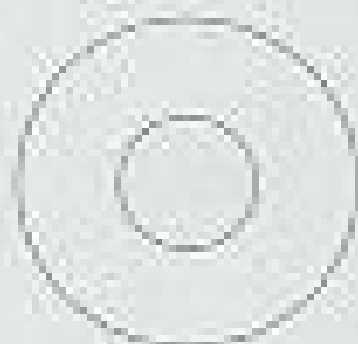
22 • 16 • 11 • 8 • 56 • 4 • 28 • 2 • 14



22 • 16 • 11 • 8 • 56 • 4 • 28 • 2 • 14

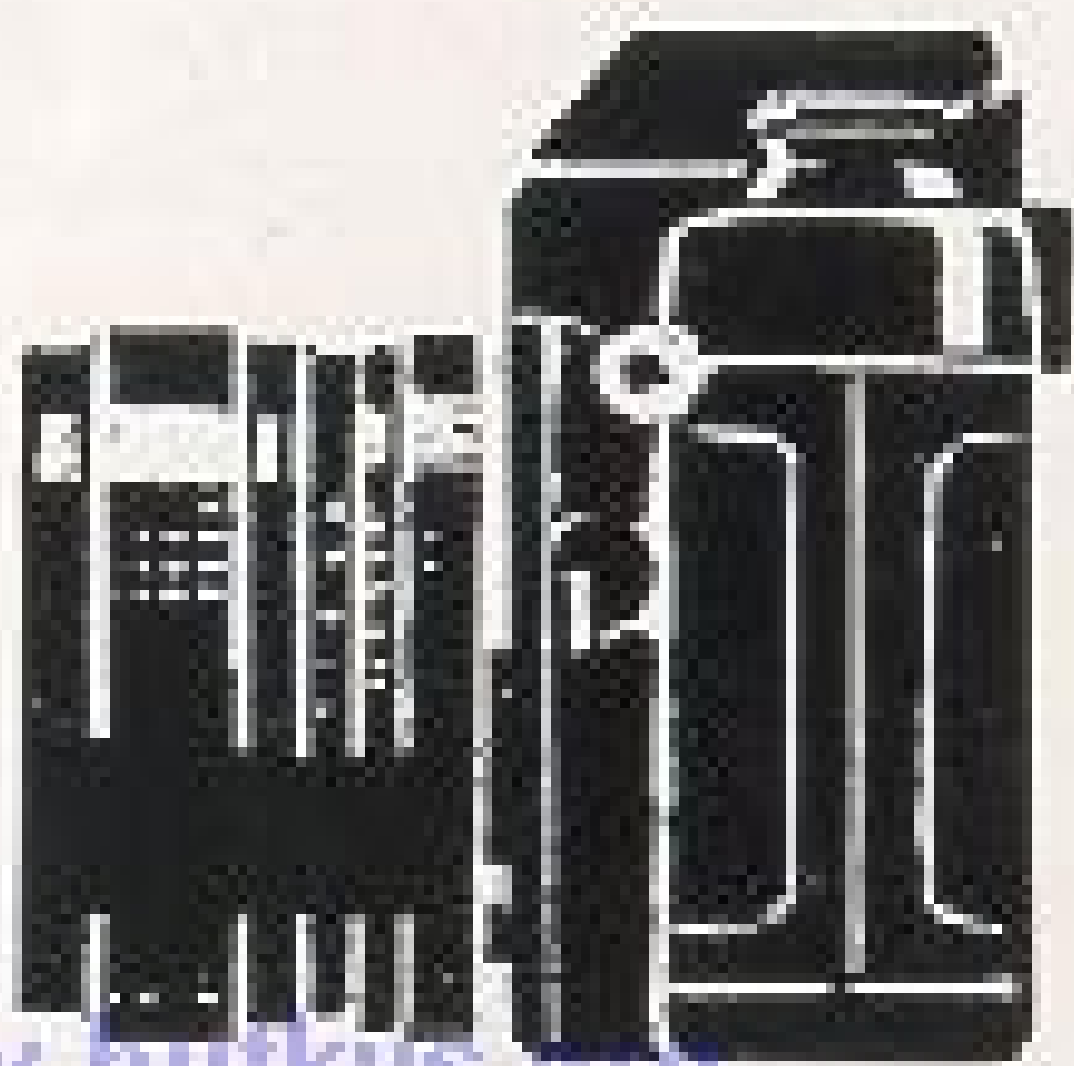


$$22 + 16 + 11 + 8 + 56 + 4 + 211 + 2 + 14$$



2000
1000
500
250
100
50
30
15
8
4
2
1
0

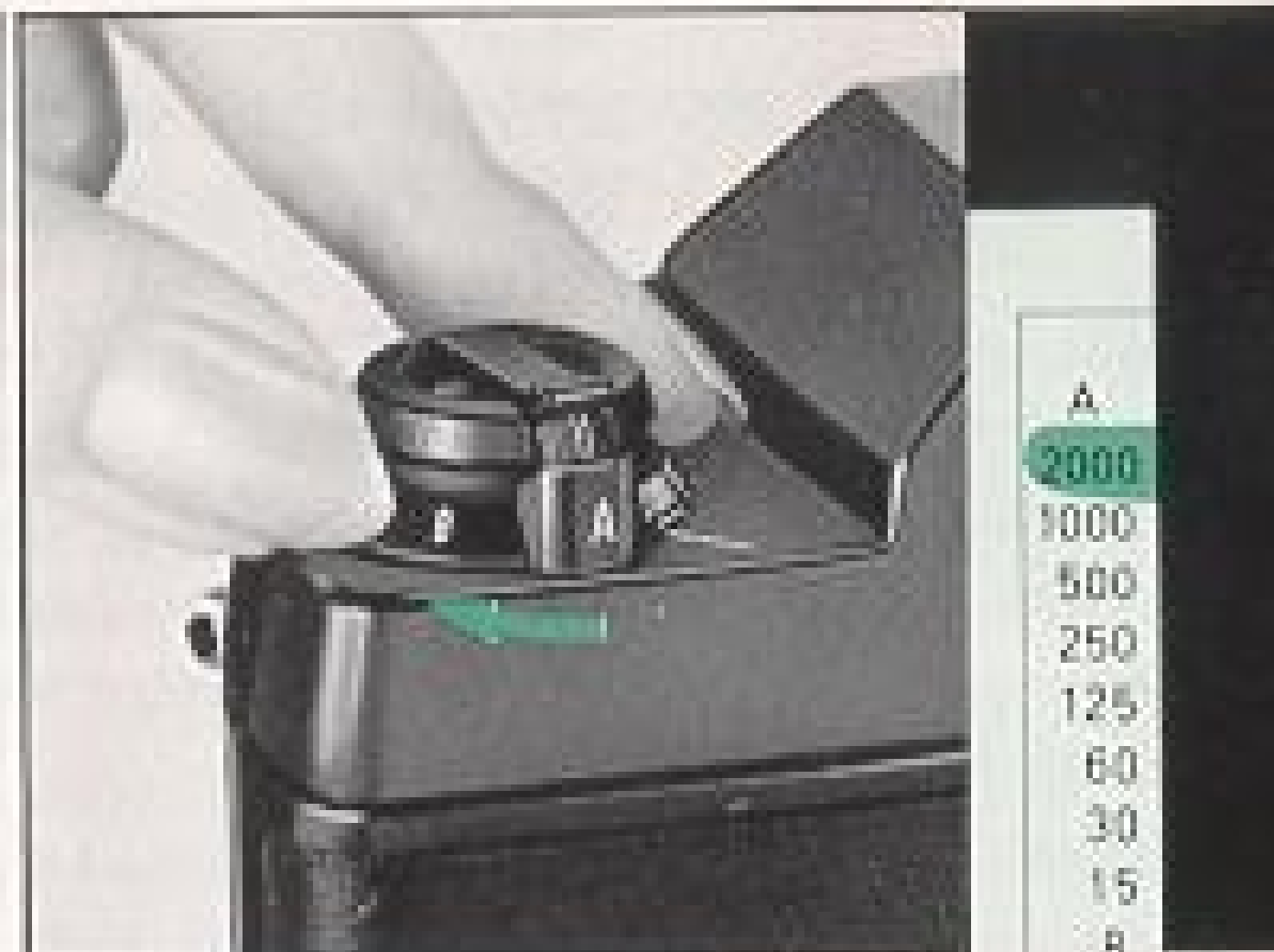




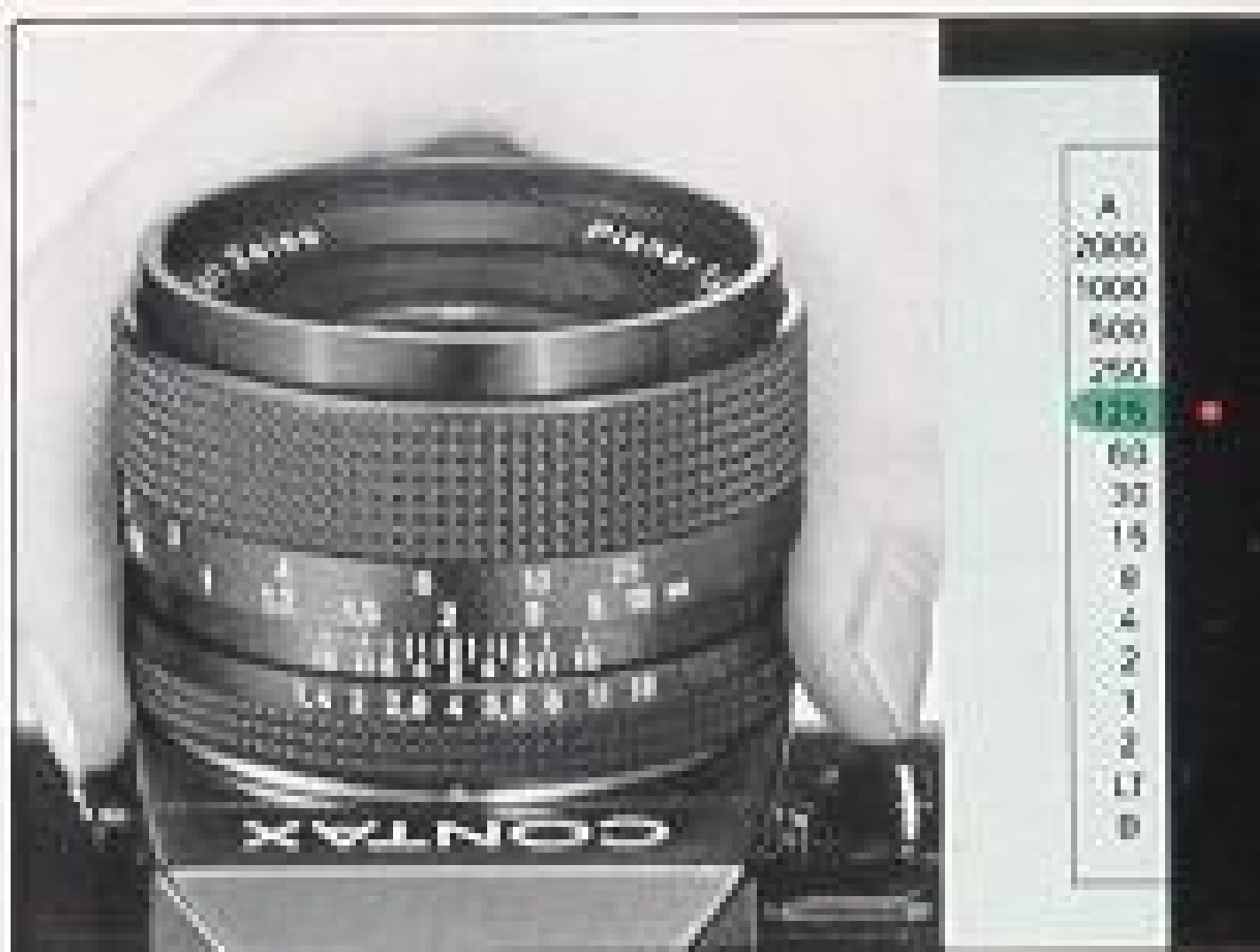
www.outkus.org



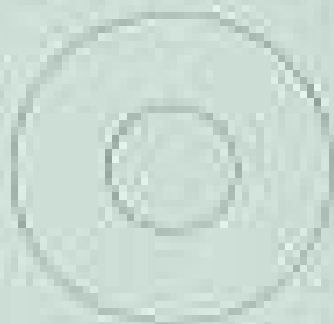








23 = 16 = 11 = 8 = 56 = 4 = 28 = 2 = 14



2000
1000
500
250
100
50
25
10
5
2
1













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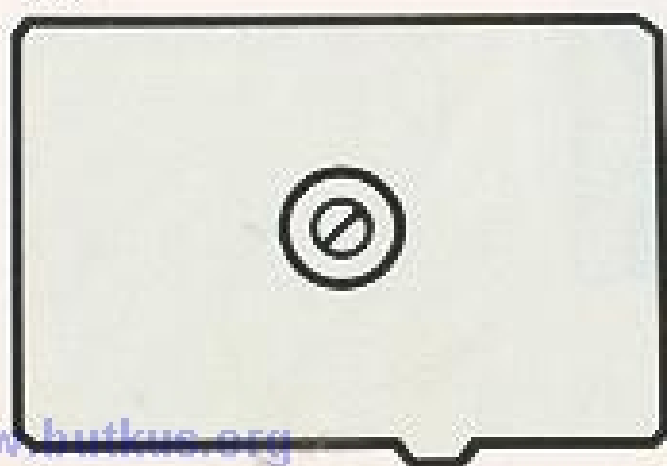


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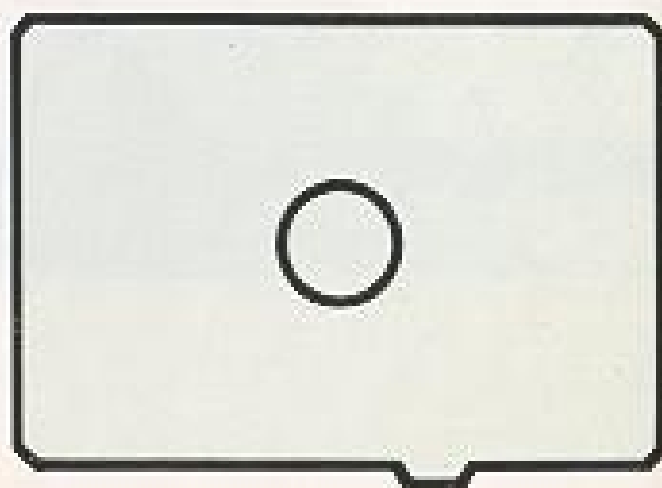




(1)

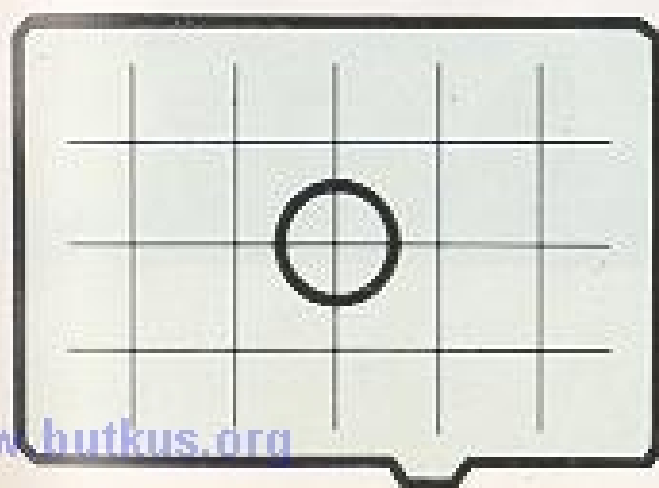


(2)





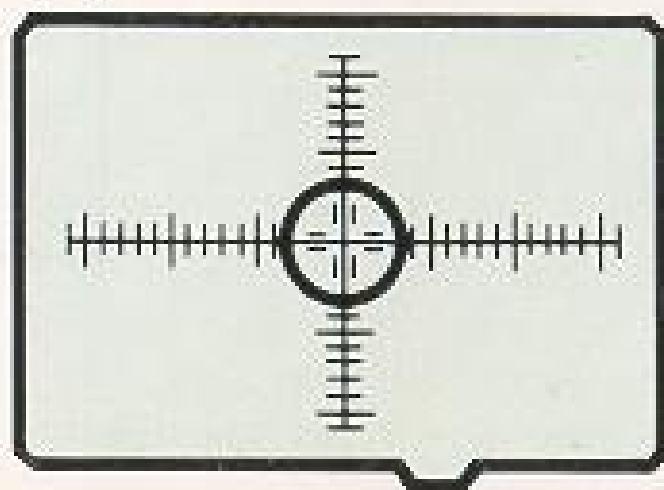
(3)



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(4)

Sie niemals Reinigen





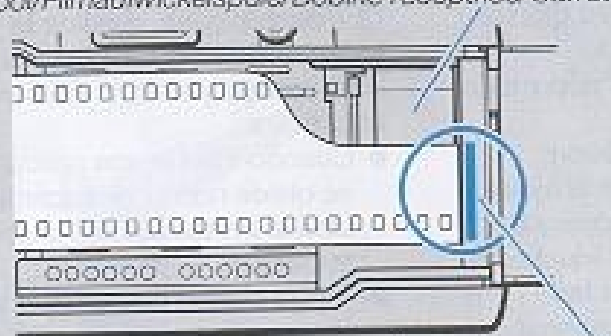
F 16



F 1.4



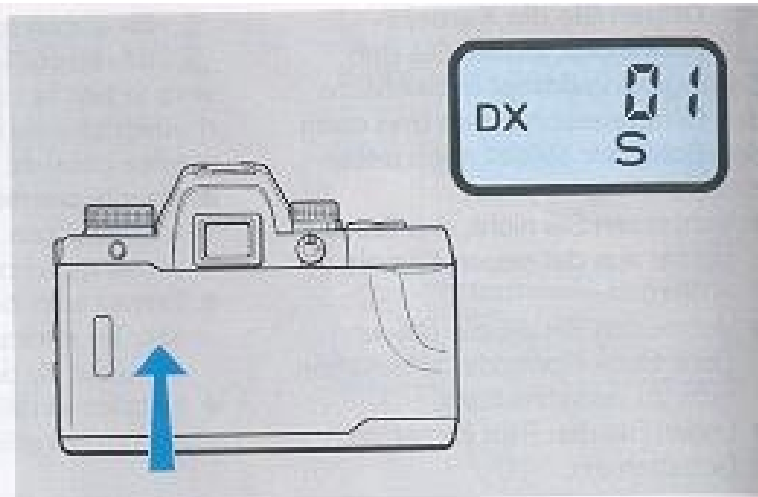
Spool/Filmaufwickelspule/Bobine réceptrice/Carrete

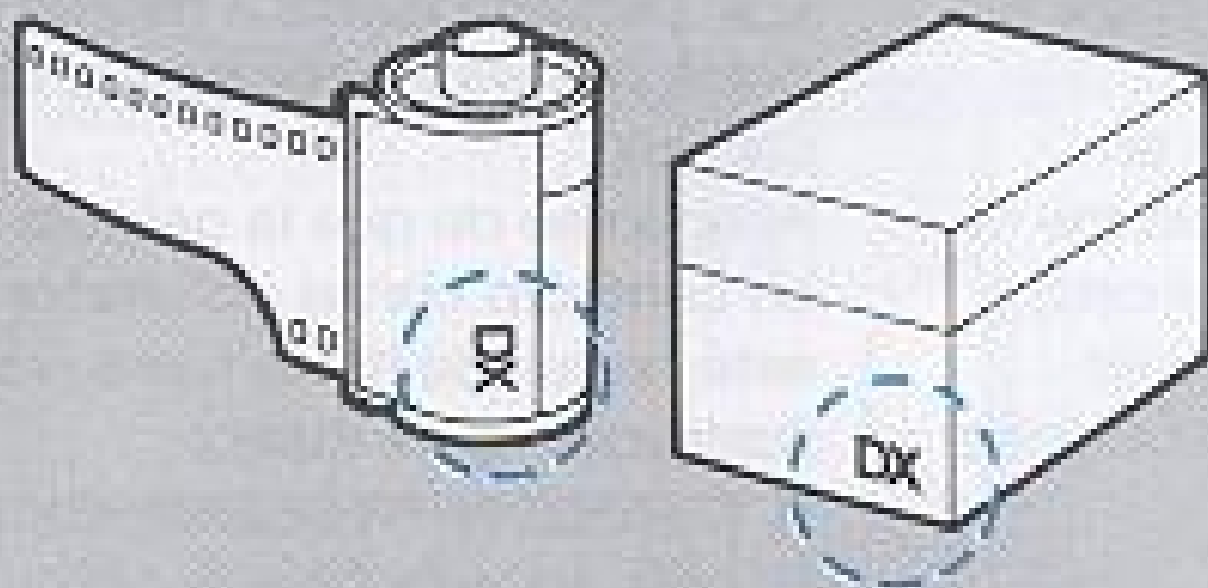


Film Leader mark/Filmanfangs-Markierung

Repère d'amorçage du film/

Marca de la parte guía de la película





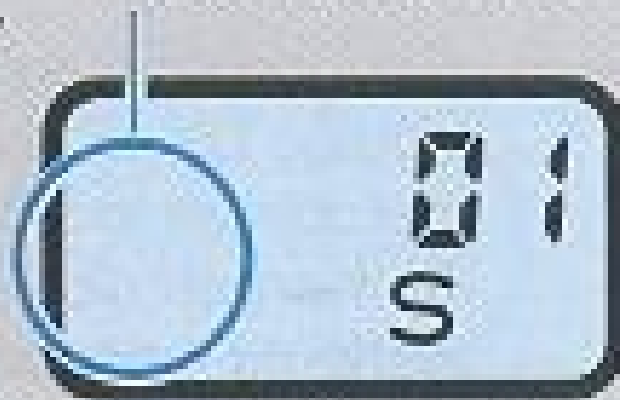
DX-coded Film

DX-Film

Film à code DX

Felícula con código DX

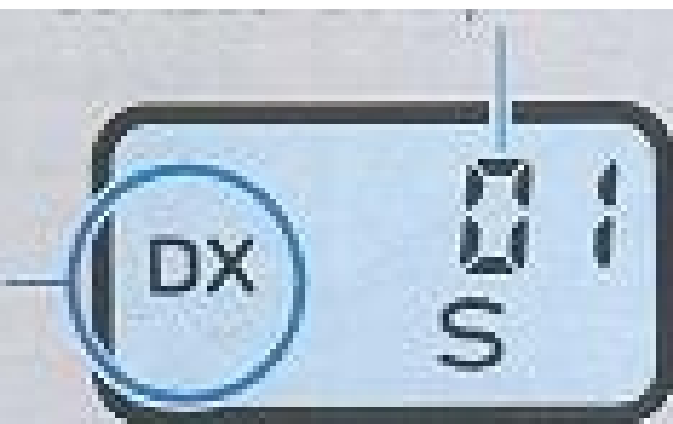
Panel visualizador



The film speed is not set automatically. Set the film speed manually.

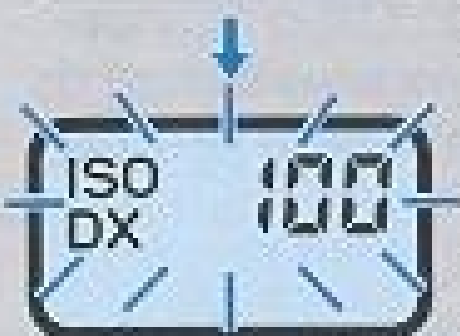
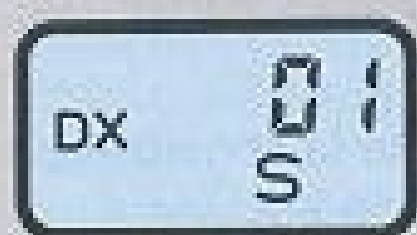
Die Filtempfindlichkeit muß manuell eingestellt werden.

DX mark indication
DX-Anzeige
Voyant DX
Indicación de la marca DX



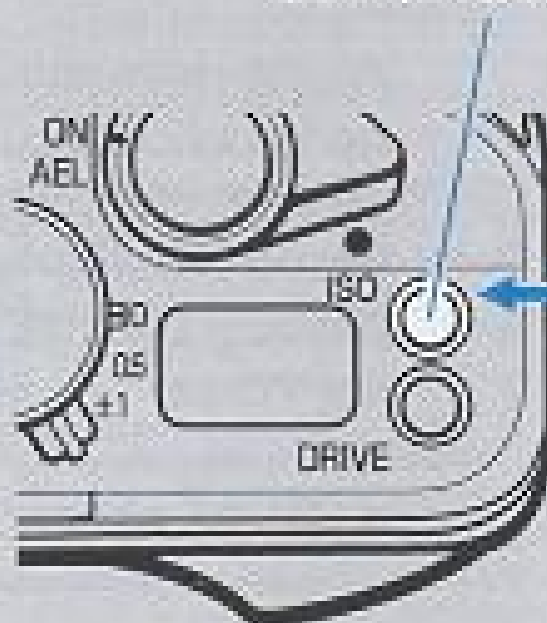
The film speed is automatically set when DX-coded film is used.

Bei Verwendung von DX-Filmen erfolgt die ISO-Einstellung automatisch.

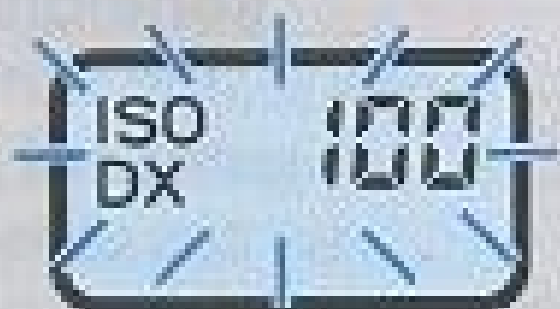


Blinks/Blinkt
Clignote/Parpadea

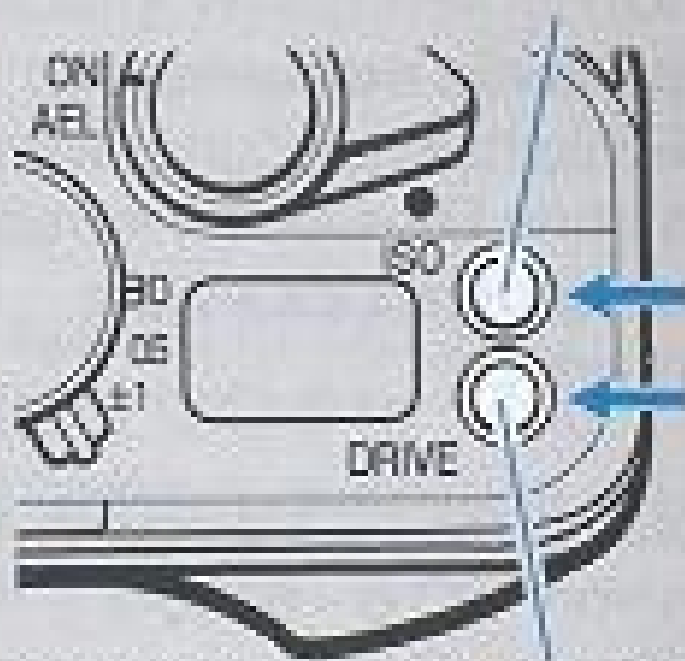
ISO Button/ISO-Taste
Bouton ISO/Botón ISO



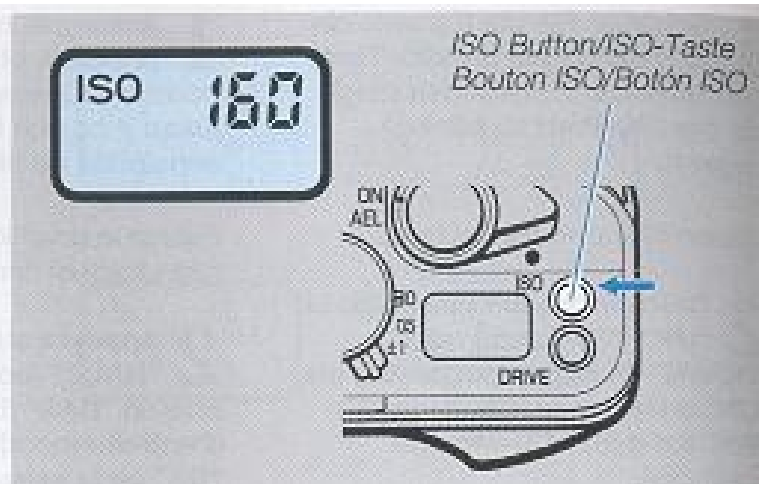
Press until setting
starts to blink
Gedrückt halten,
bis der ISO-Wert zu
blinken beginnt.
Appuyez jusqu'au
clignotement.
Presione hasta que
el ajuste emiece a
parpadear.

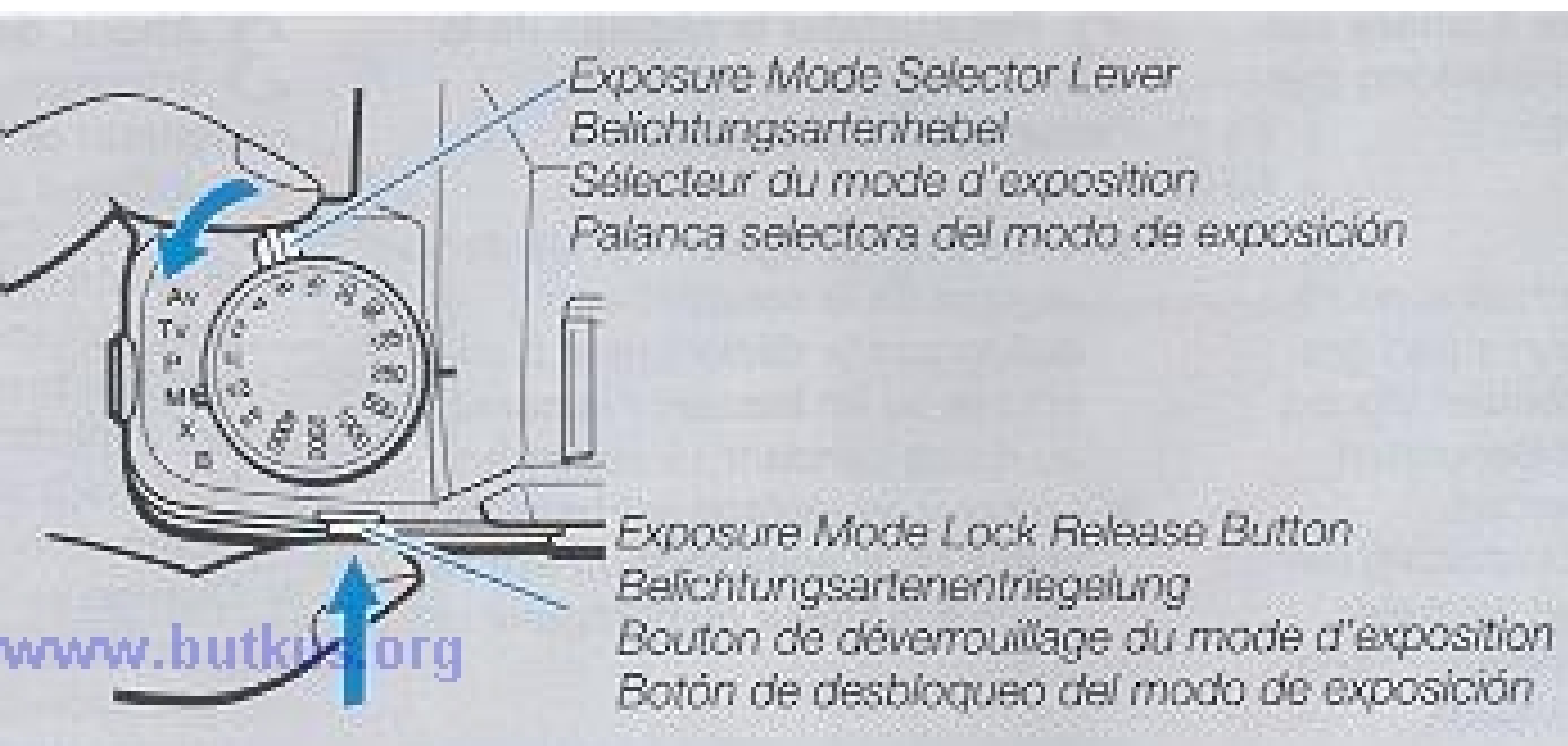


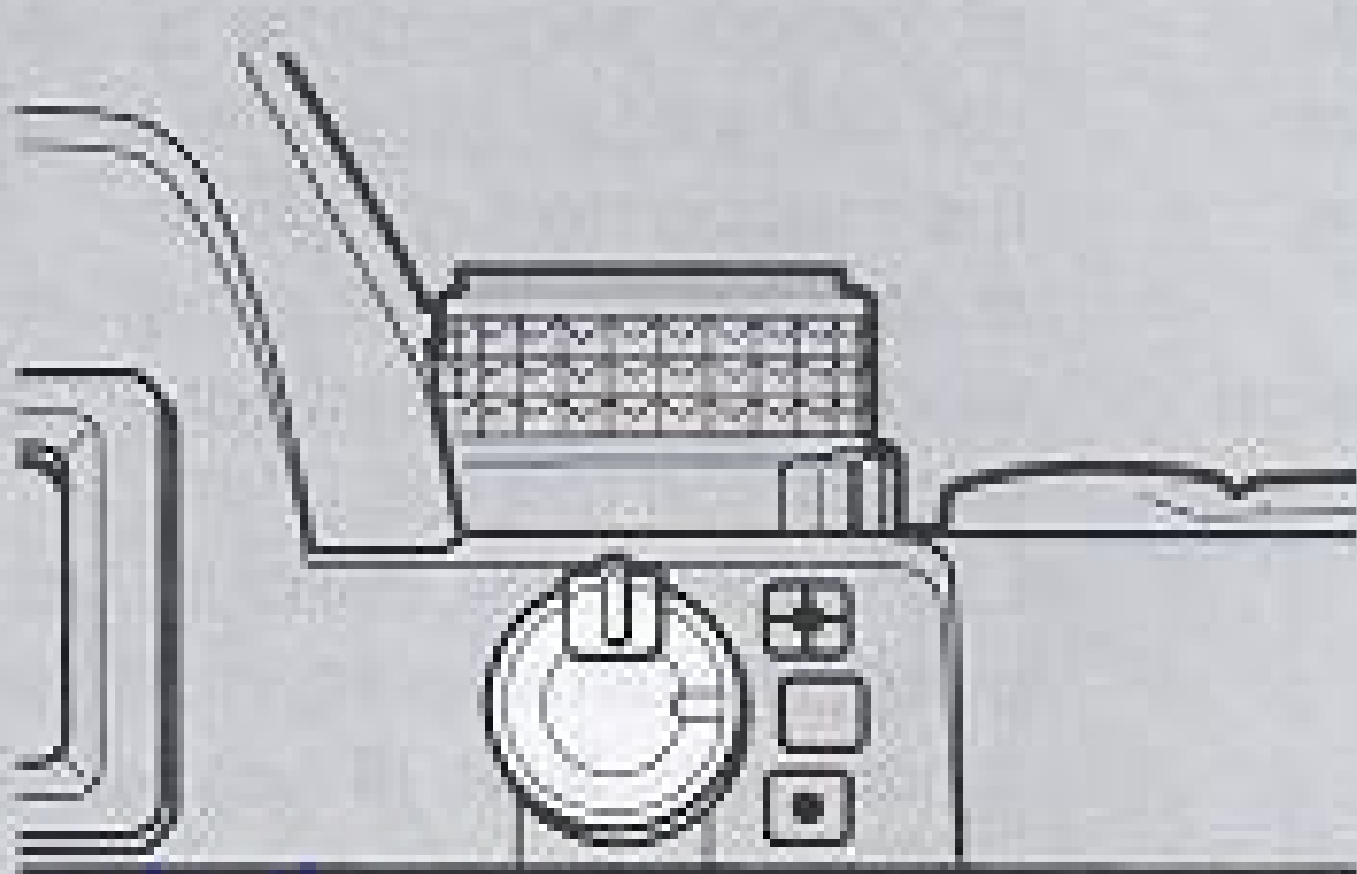
"UP" Button/ "UP"-Taste
Bouton "HAUT"/Botón "UP"



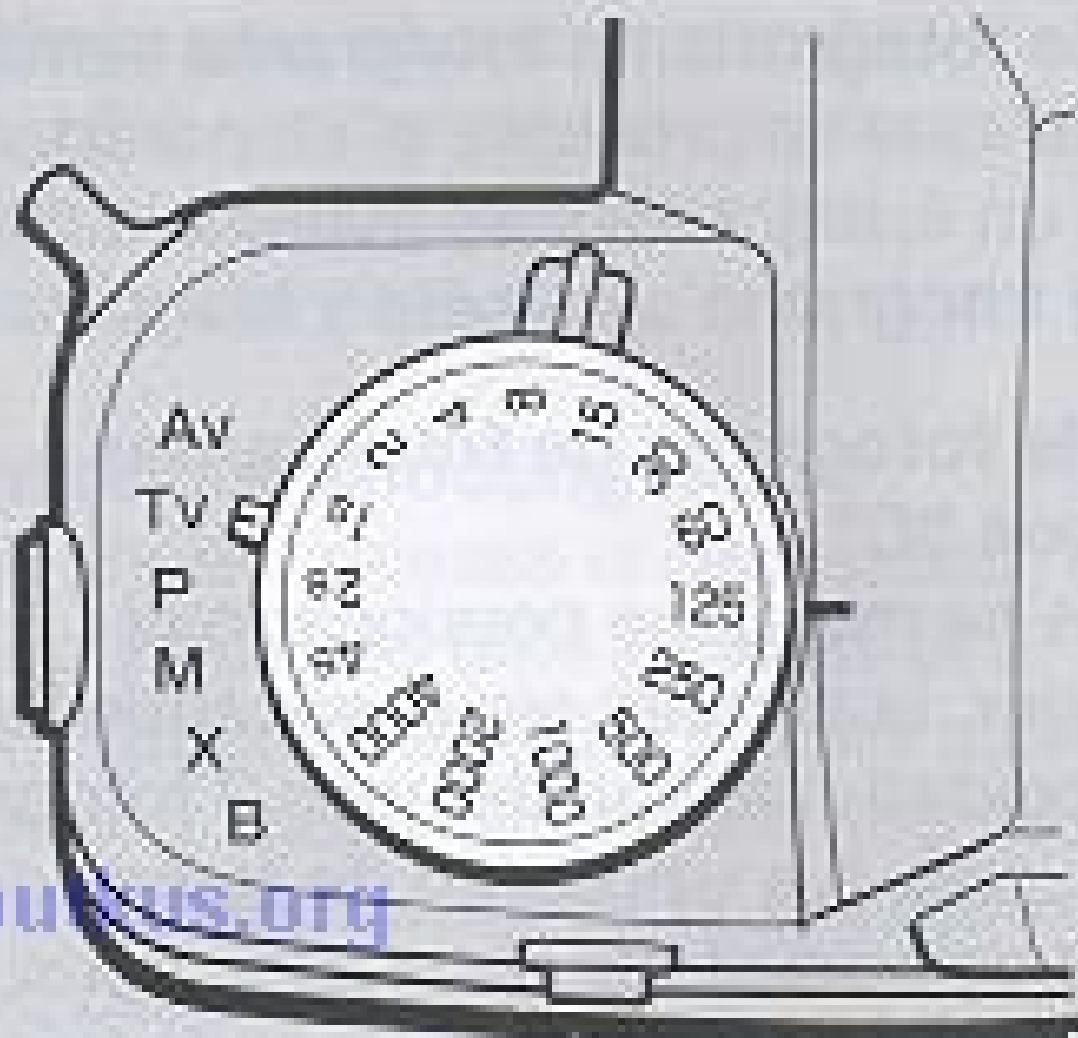
"DOWN" Button/ "DOWN"-Taste
Bouton "BAS"/Botón "DOWN"







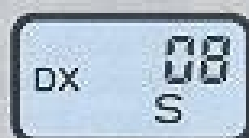
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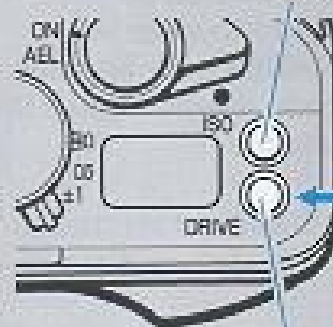
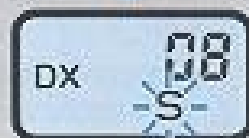
The drive modes will change as shown below each time the button is pressed.
Bei jeder Betätigung der Taste wechselt die Anzeige der Transportfunktion in der Reihenfolge der Abbildung.
Le mode d'entraînement change dans l'ordre suivant à chaque pression sur le bouton.
Los modos motorizados cambian como se muestra abajo cada vez que se presiona el botón.



Lights
Leuchtet
S'allume
Se enciende



Blinks
Blinkt
Clignote
Parpadea



ISO Button/ISO-Taste
Bouton ISO/Botón ISO

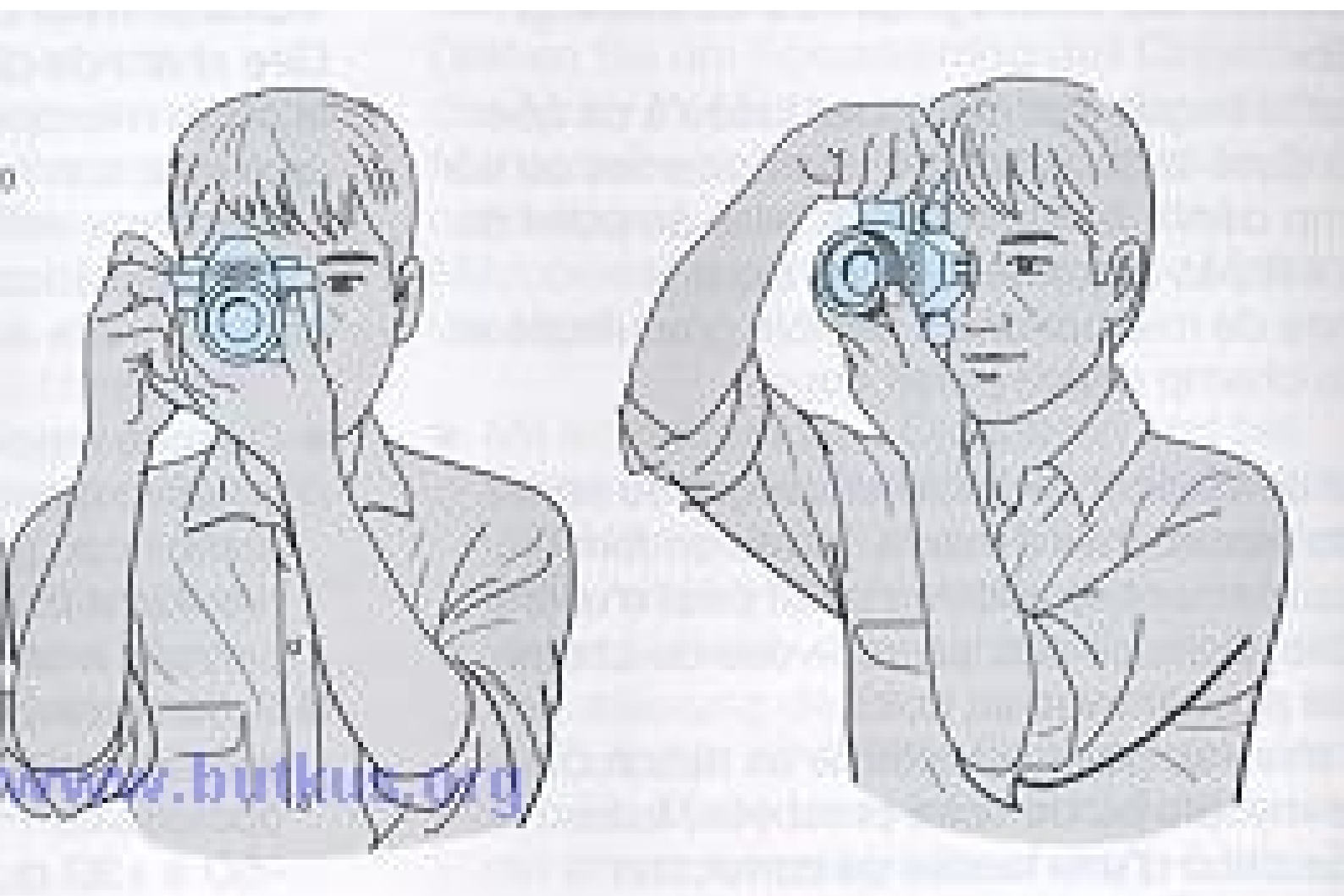
Press until setting starts to blink
Gedrückt halten, bis die Anzeige zu blinken beginnt.
Appuyez jusqu'au clignotement
Presione hasta que empieza a parpadear

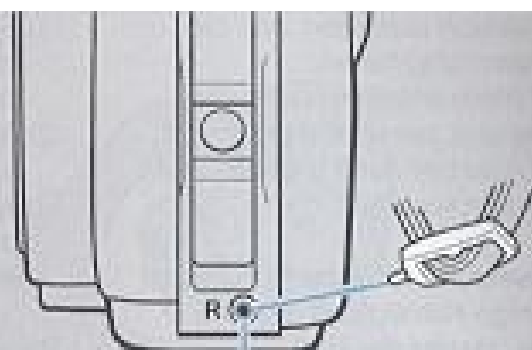
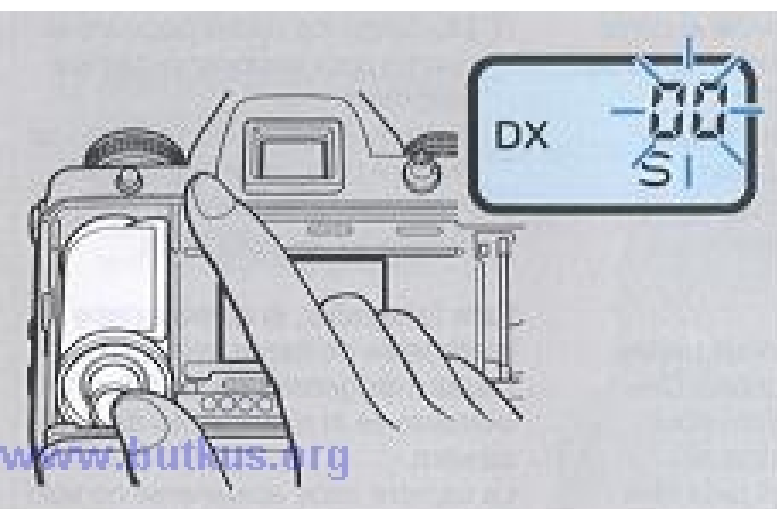
Drive Mode Button/Filmtransporttaste
Bouton de mode d'entraînement/Botón del modo motorizado



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Manual Rewind Button
Taste für vorzeitige Filmrückspulung
Bouton de rembobinage manuel
Botón de rebobinado manual

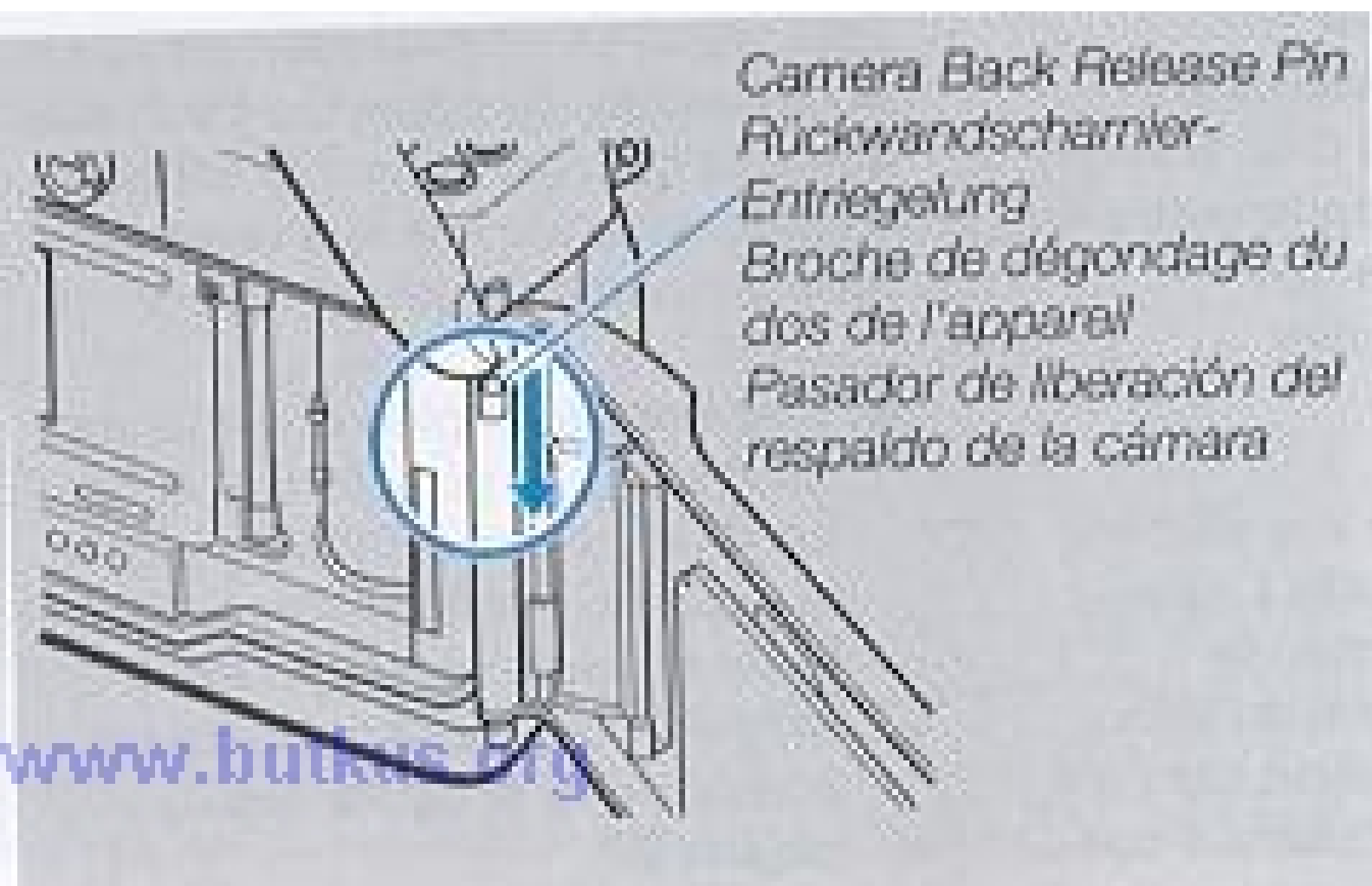
Release Socket

Kabelauskiseranschluß

Prise de déclenchement

Rosca del disparador automático



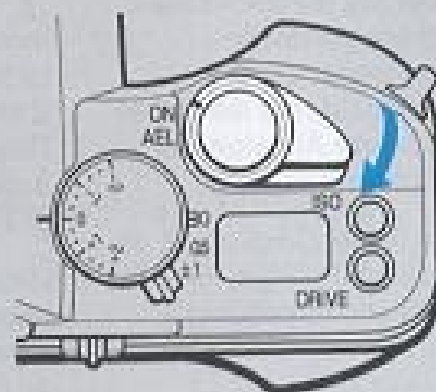


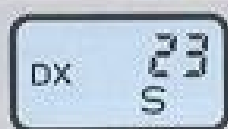
Item No.
Funktion Nr.
Nº de rubrique
Botón ISO



Drive Mode Button
Filmtransportaste
Bouton de mode d'entraînement
Botón del modo motorizado

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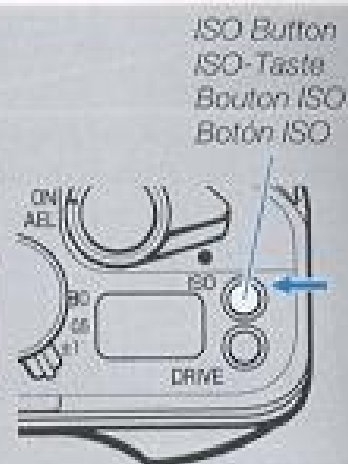
Custom Function Setting
Position
Position für Individual-
Funktionseinstellung
Position de réglage des
fonctions personnalisables
Posición de ajuste de las
funciones personalizadas



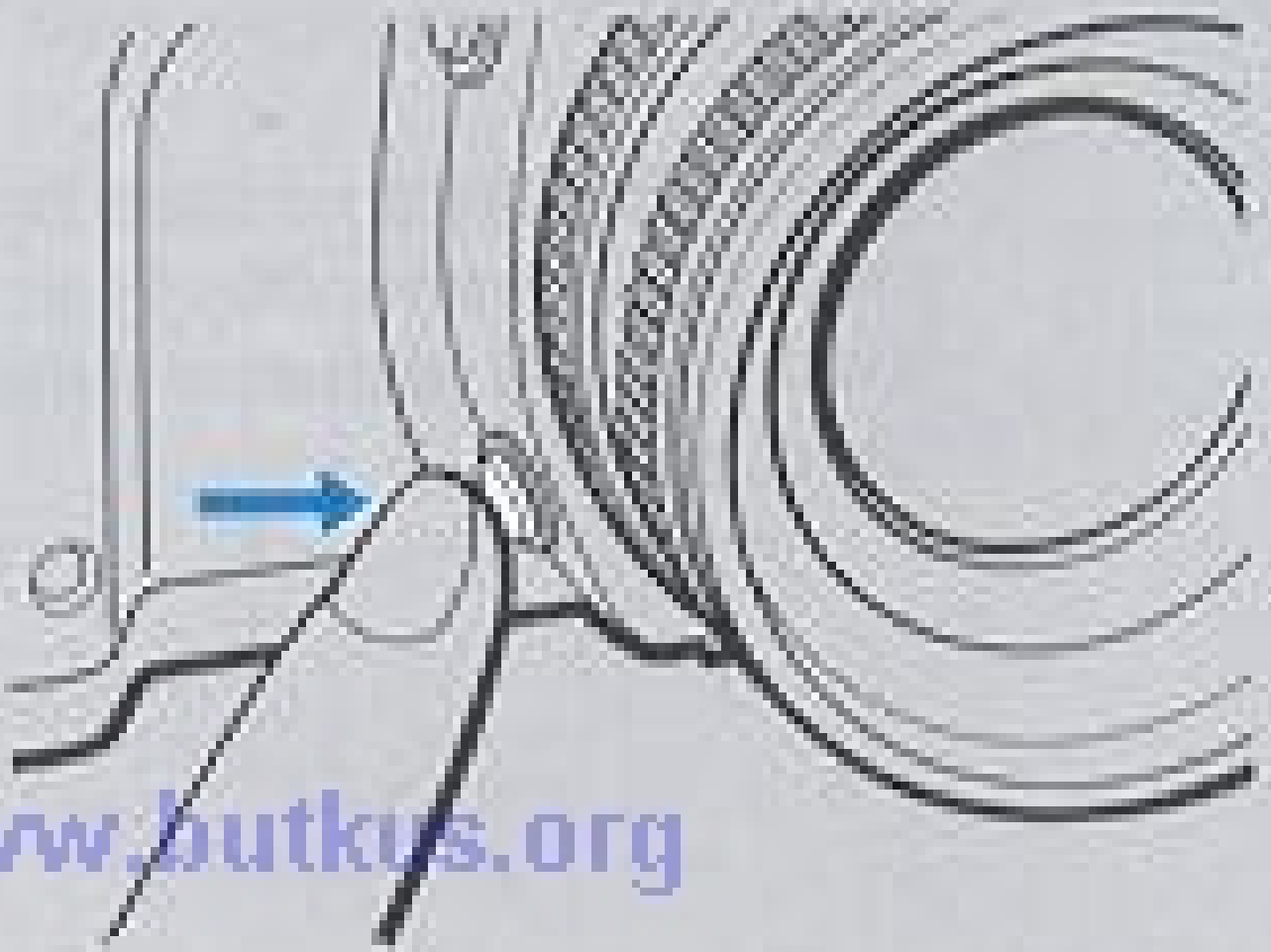
ISO Button
ISO-Taste
Bouton ISO
Botón ISO

Drive Mode Button
Filmtransporttaste
Bouton de mode
d'entraînement
Botón del modo motorizado

Function No.
Funktion Nr.
Nº de fonction
N.º de función

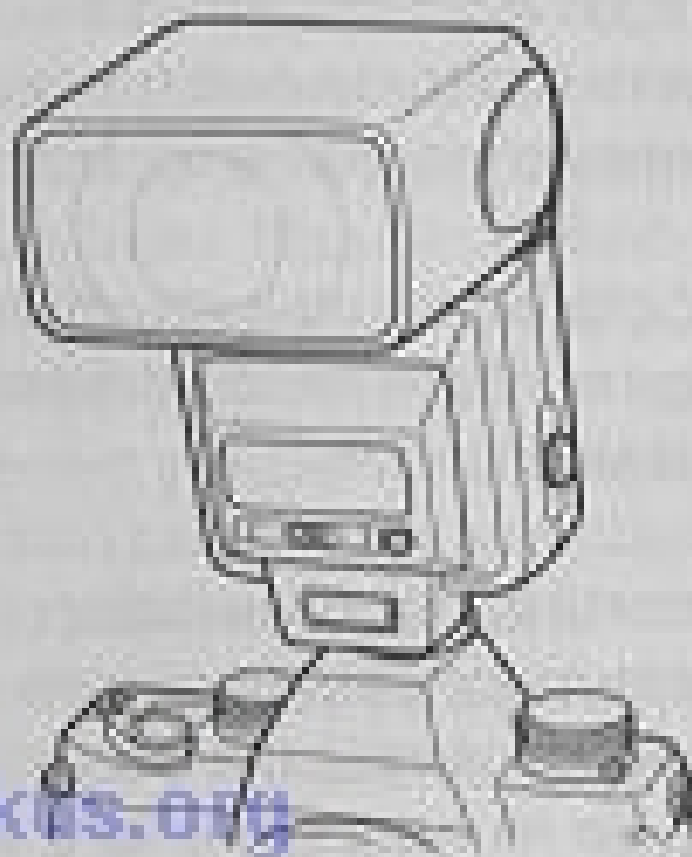


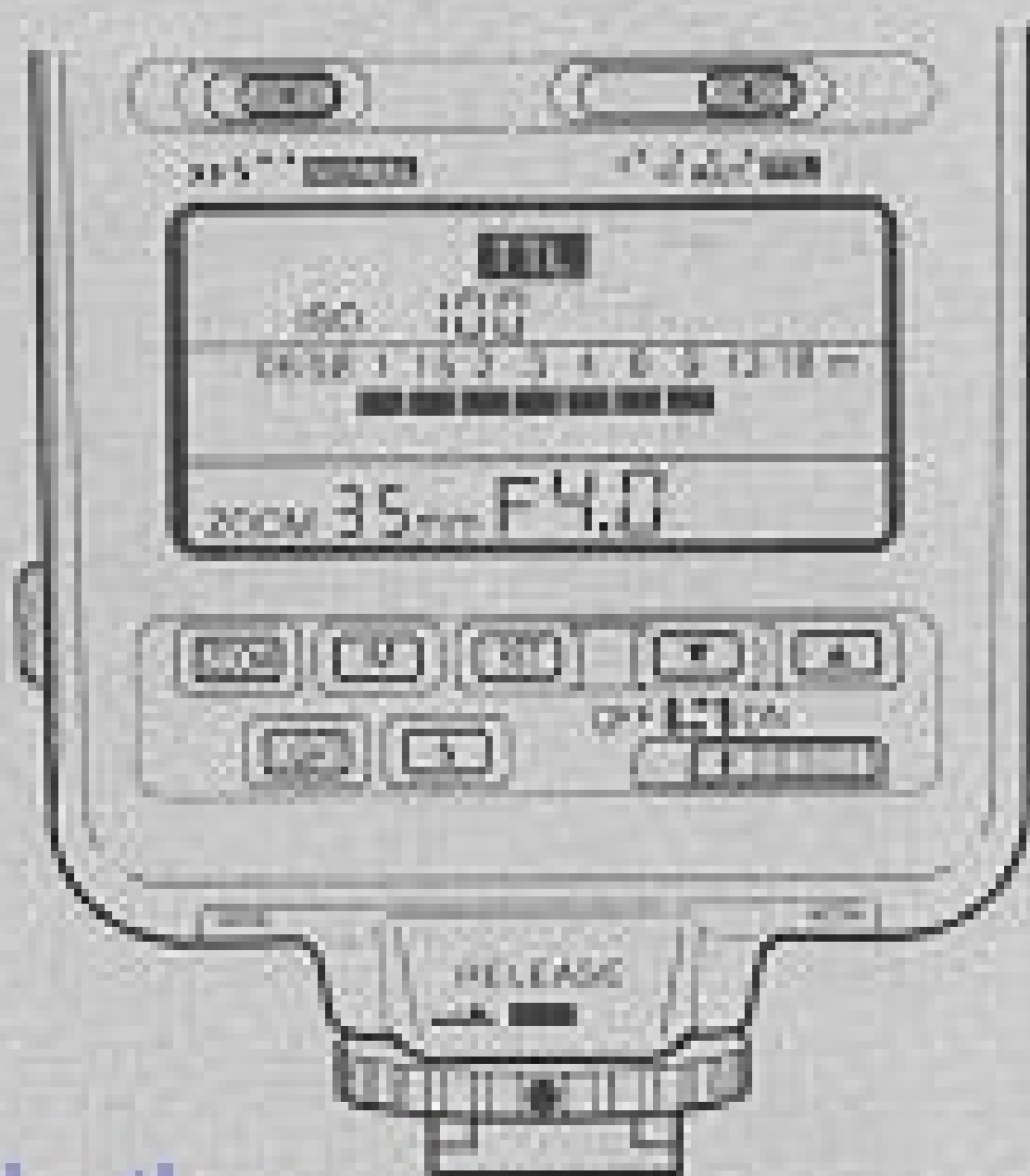
ISO Button
ISO-Taste
Bouton ISO
Botón ISO

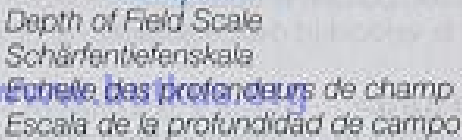


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Shutter Speed Verschlußzeit Vitesse d'obturation Velocidad del obturador		Aperture Blende Diaphragme Abertura	
"Av" or "P" "Av" oder "P" "Av" ou "P" "Av" o "P"	"Tv" or "M" "Tv" oder "M" "Tv" ou "M" "Tv" o "M"	All Modes Alle Belichtungsarten Tous modes Todos los modos	
4000	4000	32	
2800	2000	27	
2000	1400	22	19
1400	1000	16	13
1000	700	11	9.5
700	500	8.0	6.5
500	350	5.6	4.5
350	250	4.0	3.5
250	180	2.8	2.4
180	125	2.0	1.7
125	90	1.4	1.2
90	60		
60	45		
45	30		
30	20		
20	15		
15	10		
10	8		
8	6		
6	4		
4	3		
3	2		
2	0"7		
0"7	1"4		
1"4	2"8		
2"8	5"6		
5"6	11"		
11"			









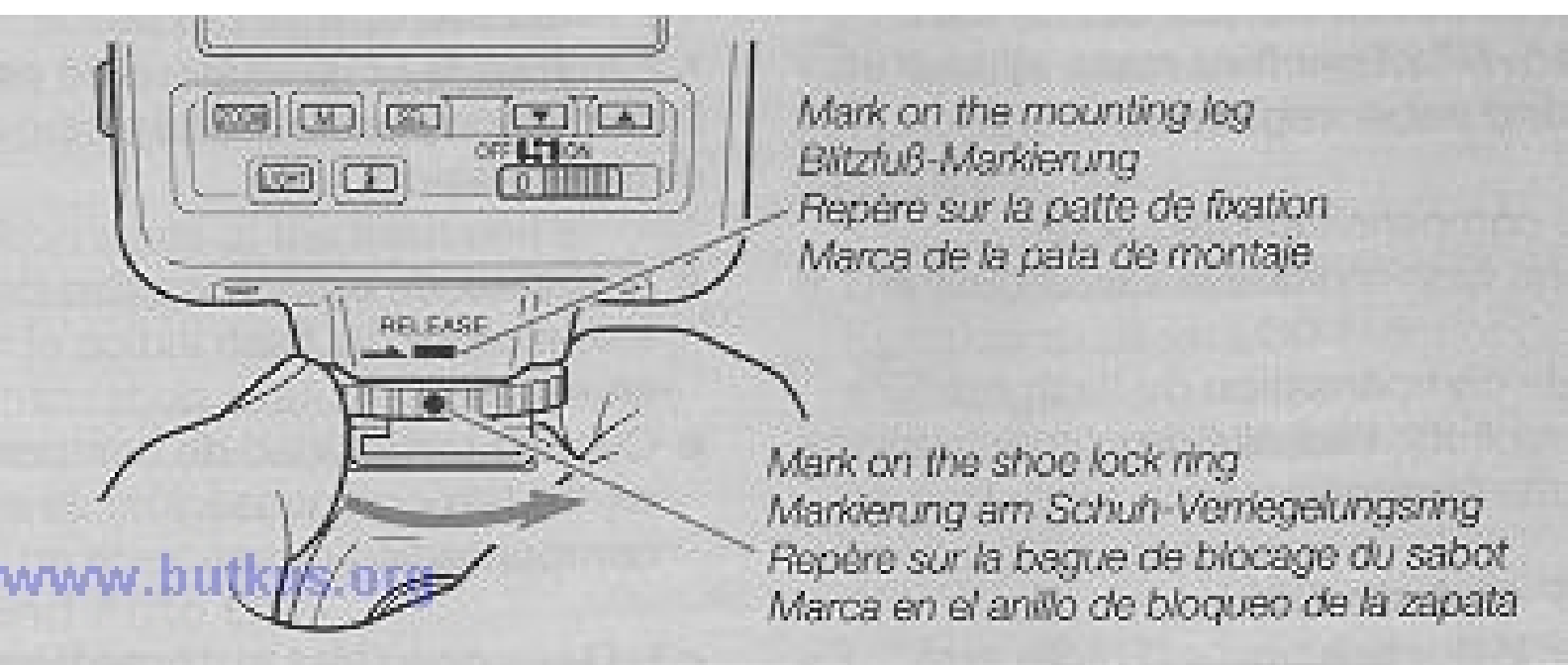


Aria



GP-1







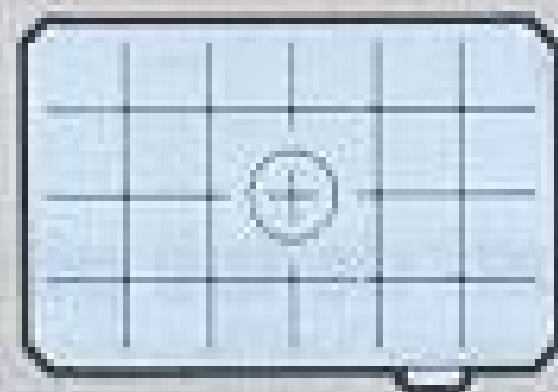
FU-3



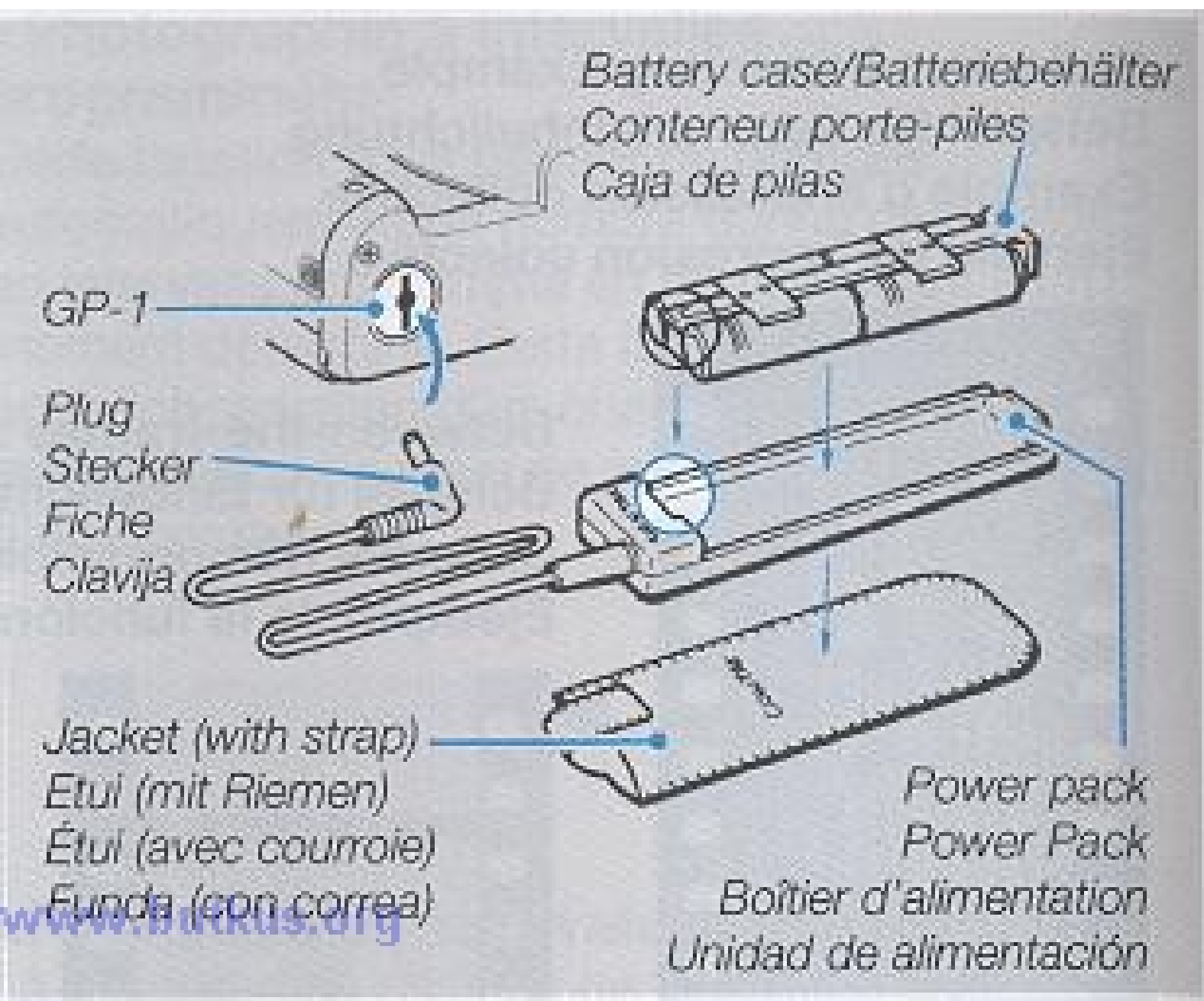
FU-4



www.butler.org FU-5

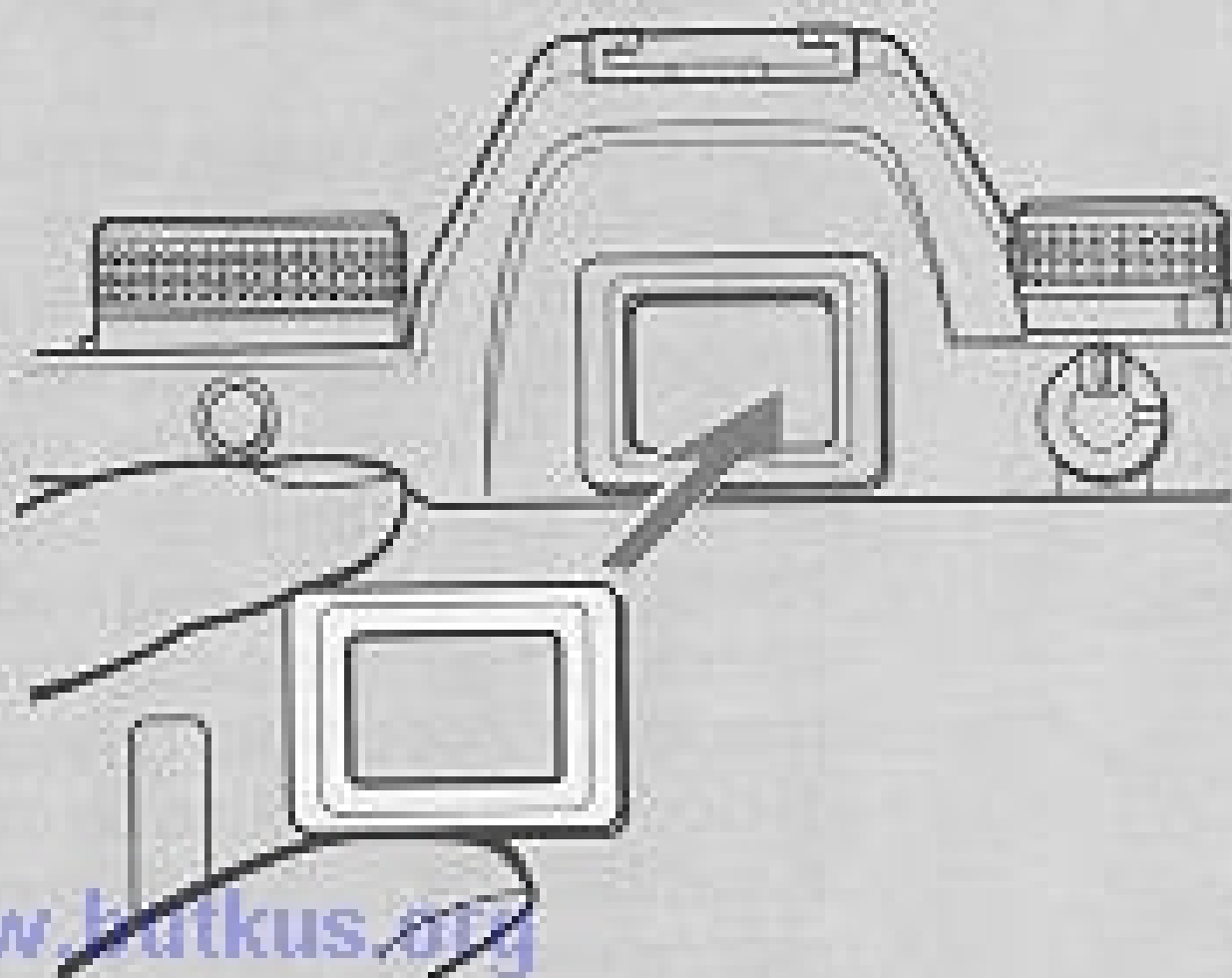


FU-6





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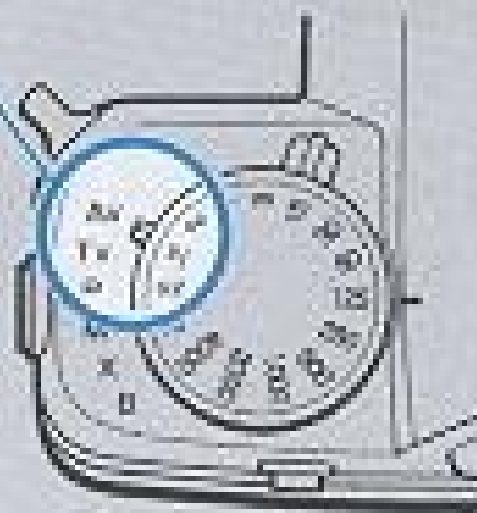


in 100% of cases, the car can be attached in about 10





1



2

