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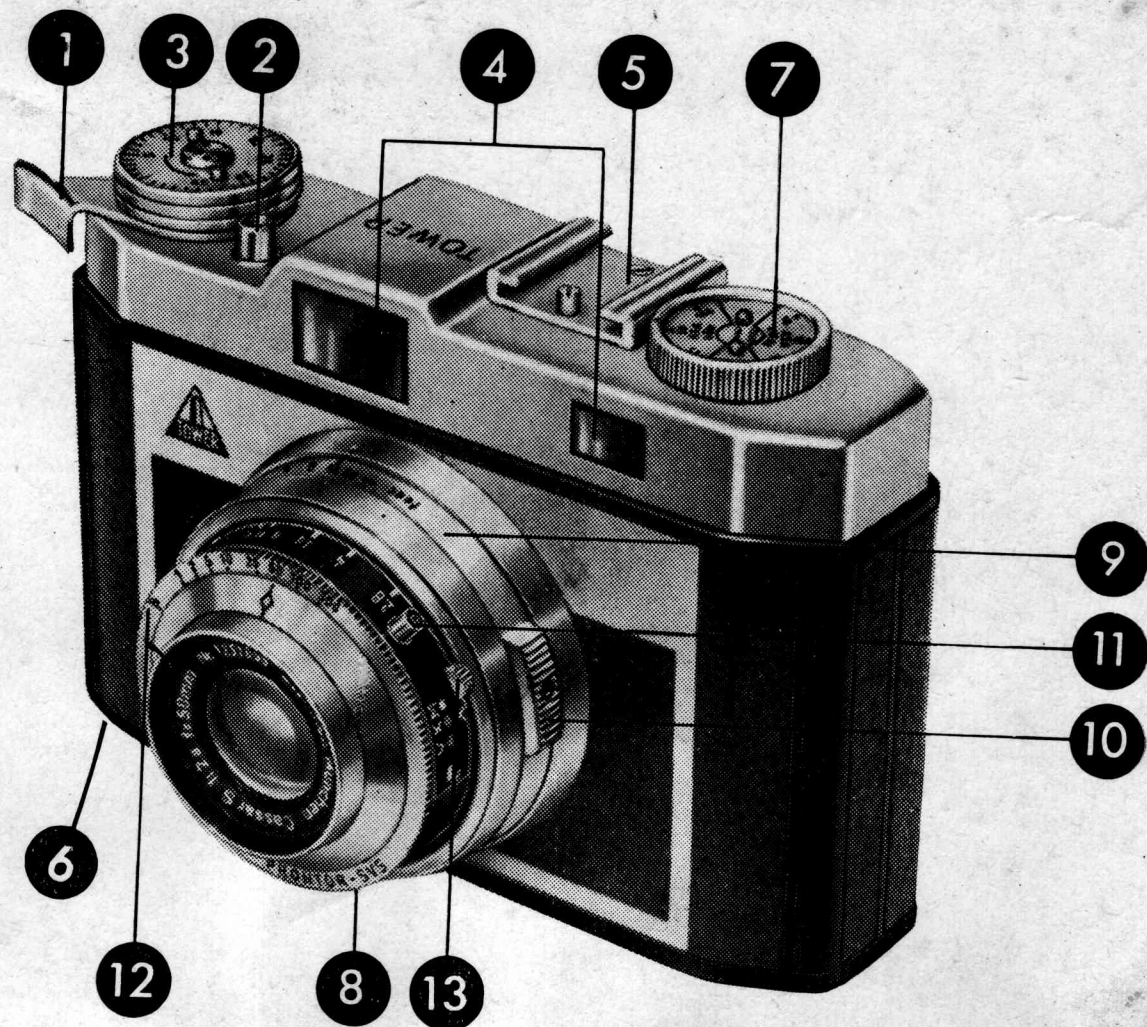
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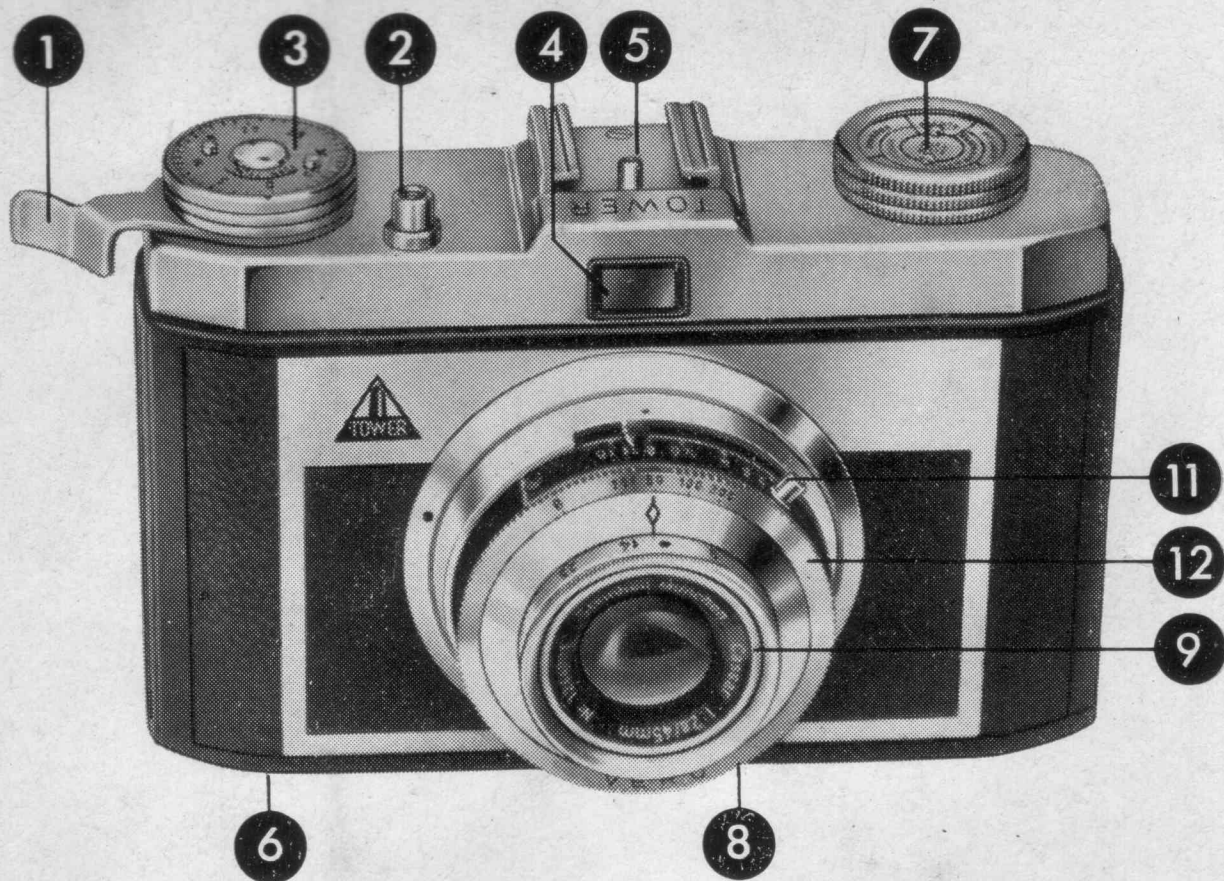
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TOWER

# Model No 51



# Model No 50



Printed in Germany  
T 2

SEARS, ROEBUCK AND CO.  
CHICAGO

1. Rapid wind lever
2. Body release and cable release contact
3. Film counter
4. View- and range finder (Tower 51)  
Viewfinder (Tower 50)
5. Accessory shoe
6. Release for double exposure  
and rewinding
7. Rewinding knob and film mark
8. Handle for aperture setting ring
9. Focusing ring
10. Handle for focusing ring
11. Flash contact
12. Shutter setting ring
13. M X adjustment / Self-timer

## Instructions

TOWER 51 Camera

TOWER 50 Camera

No 50 →

[www.orphancameras.com](http://www.orphancameras.com)

The simplified loading and use instructions are printed on the camera. The complete instruction data in the booklet should be consulted when you first get your camera. The data printed on the camera will always refresh your memory later, and assure you of trouble free picture taking.

#### **TO LOAD CAMERA:**

Use standard color or black and white film (20 or 36-exposure roll). Open camera by lifting left end outward at grooved portion on back of camera. (Simplified loading and use instructions are printed on base and inside of camera.) Lift film rewind knob (7). Insert film roll cartridge, tip down. Lower rewind knob.

Fold over  $\frac{1}{4}$ " of film end, insert into slot of film winding spool marked with arrows. Swing forward the rapid advance lever to advance film until it stops then let it snap back. Press shutter release button. The film may not advance

a full frame at first, but this will be automatically controlled as you continue to wind, so you can next fasten back to camera.

#### **TO CLOSE CAMERA:**

Insert right extended grooved portion of camera back into slotted right edge of camera body, then press opposite end of camera back until it snaps into position.

#### **TO ADVANCE FILM:**

Swing forward rapid film wind lever (1) until it stops then let it snap back. Advance film and press shutter release one more time.

**NOTE:** Rapid film wind lever advances film for next exposure and cocks shutter at the same time.

Set film counter dial (3) by turning the two protruding pins in the direction of arrow.

Set film memory dial so that the red dot on rim of rewind knob (7) is opposite type of film being used. Also here use the two protruding pins to move inner dial accordingly.

This camera will prevent accidental double exposures. However, if you wish to make an in-

tentional double exposure, if, for example, flash bulb or flash gun failed, do the following: Press in film rewind release (6) while swinging forward rapid advance lever in direction of arrow until it stops. This permits recocking of shutter without advancing film. Since film counter dial advances with each winding reset dial to previous setting as usual (for example: dial can be reset to No. 15 by turning the two protruding pins in direction of center arrow, if No. 15 advanced to No. 16 at red dot.)

#### **TAKING THE PICTURE:**

Critical focusing will help give your pictures sharpness in detail.

**If Using TOWER 51 Camera** use combined view- and rangefinder (4). Superimposed on the subject image is an equal image of yellow to orange color. To make these two images overlap with each other in view-finder move focus ring (10). When the two images coincide with each other subject is in focus. When focusing, make sure that your hand does not cover one or both of the two finder windows.

Before taking a picture, select the proper lens opening (opening = F: stop) and shutter speeds = (time of exposure). Correct lens opening and shutter speed for each picture depend on the subject, light conditions available each time, and the type of film (gratation) used. Your TOWER 51 camera eliminates the need for estimating lens and shutter speeds. For average sunny day pictures on color or black and white film, follow simplified instruction on bottom plate of camera, or follow exposure information supplied with the film. Otherwise, use a TOWER exposure meter or any other photoelectric meter to find light conditions available for obtaining proper lens and shutter speeds.

**If Using TOWER 50 camera:**

Estimate subject - to - camera distance. Adjust distance scale (9) according to distance estimated. (For example, if subject - to camera distance is 5 ft., turn ring (9) until "5" is aligned with red indicator mark (rhomb) above scale.

If you prefer to use universal settings for simple use, align red line on focusscale (at about 12 ft.) with red indicator mark above scale. Your picture will then be in reasonable focus from 6 ft. to infinity ( $\infty$ ) under normal conditions. For close-up pictures, less than 6 ft., accuracy of focus is imperative. If in doubt, focus at measured distance. (Refer to base of camera for exposure guide).

## PICTURE-TAKING STEPS IN BRIEF:

- a) Determine subject-to-camera distance and adjust ring (9) accordingly. Subject will be in sharp focus.
- b) Select shutter speed = (exposure time). Adjust ring (12) until required shutter speed is aligned above red rhomb.

### c) TOWER 51

Move lens opening lever until red dot on movable ring is lined-up with selected lens opening (F: stop).

### TOWER 50

Move lens opening lever until red line on lever is lined-up with selected lens opening (F: stop).

- d) Sight through viewfinder to compose subject. Press shutter release (2) to take picture.
- e) Advance film by swinging rapid wind lever (1) forward until it stops, then release. Repeat steps (a-e) for taking each picture. Film counter dial (3) will automatically record number of exposed pictures.

## FOR TAKING FLASH PICTURES:

### If Using TOWER 51 camera.

The PRONTOR SVS shutter is fully synchronized at all speeds. For Class M flash bulbs (No. 5, 8, 25 etc.) set flash indicator lever (13) to "M" (yellow dot). For speedlight units and Class F flash bulbs ("SM" and "SF") set flash indicator lever (13) to "X" (red dot).

**Note:** Use Class F flash bulbs at speeds up to  $\frac{1}{100}$  sec. Speed lights synchronize at any shutter speed. The "M", "X", "V" markings on SVS shutter are explained on base of camera.

### If using the Self-Timer on TOWER 51 camera.

A self-timer is provided to permit the operator of the camera to get into the picture. Set indicator-lever (13) at "V". When the shutter release is pressed, there will be a delay of about 7 seconds before the shutter is automatically tripped. The camera should always be set on a tripod or any other firm support for delayed action pictures.

### If Using TOWER 50 Camera.

The VERO shutter is synchronized for Class "M" flash bulbs (5, 8, 25, etc.) at "B",  $\frac{1}{25}$  and  $\frac{1}{50}$  second; for class "F", "SM", "SF" up to  $\frac{1}{100}$  second and for electronic flash at all speeds. For most flash photography a shutter setting of  $\frac{1}{50}$  second is recommended. Consult your flash bulb carton for correct F: stop settings (lens openings) at the desired speeds and distances.

**Note:** Flash and exposure data are also shown on base of camera.

### UNLOADING:

After taking the last picture on roll (20th or 36th exposure) press film rewind release (6) while turning rewind knob (7) in direction of "arrow" on film memory dial. Continue turning until rewind knob turns freely. This is an indication that film is back in its cartridge. If at the end of the film the winding lever should not have returned, press rewind release (6), advancing the lever until it stops. Open back of camera and remove cartridge by lifting rewind knob (7). Now set film memory dial on top of film rewind knob (7) at "empty".

### Model No 51 Depth of focus table

F 1:2,8 f=50 (mm)

Focus- ing Scale	Feet							
	3	4	5	6	9	14	25	$\infty$
2,8	2,93-	3,87-	4,79-	5,69-	8,30-	12,3-	20,1-	100-
	3,08	4,14	5,23	6,34	9,83	16,2	33,2	$\infty$
4	2,90-	3,81-	4,70-	5,56-	8,03-	11,7-	18,5-	70,0-
	3,11	4,21	5,34	6,51	10,2	17,3	38,7	$\infty$
5,6	2,86-	3,74-	4,59-	5,41-	7,70-	11,0-	16,7-	50,0-
	3,16	4,30	5,49	6,74	10,8	19,2	50,	$\infty$
8	2,80-	3,64-	4,43-	5,19-	7,25-	10,1-	14,7-	35,1-
	3,23	4,44	5,74	7,12	11,9	22,9	86,0	$\infty$
11	2,74-	3,52-	4,25-	4,94-	6,76-	9,16-	12,7-	25,6-
	3,33	4,64	6,08	7,66	13,5	30,1	$\infty$	$\infty$
16	2,63-	3,34-	3,99-	4,58-	6,08-	7,93-	10,4-	17,7-
	3,50	5,00	6,75	8,79	17,6	63,6	$\infty$	$\infty$
22	2,52-	3,15-	3,71-	4,21-	5,43-	6,84-	8,60-	12,8-
	3,74	5,54	7,78	10,7	27,8	$\infty$	$\infty$	$\infty$

# Model No 50 Depth of focus table

F 1:2.8 f=45 (mm)

Focus- ing Scale	F e e t							
	3	4	5	6	9	14	25	$\infty$
2.8	2'10 $\frac{1}{2}$ "	3'9 $\frac{1}{2}$ "	4'8"	5'6 $\frac{1}{2}$ "	8'	11'8 $\frac{1}{2}$ "	18'6 $\frac{1}{4}$ "	67'11"
	3'1 $\frac{1}{2}$ "	4'2 $\frac{3}{4}$ "	5'4 $\frac{1}{2}$ "	6'6 $\frac{1}{2}$ "	10'3 $\frac{1}{4}$ "	17'4 $\frac{1}{2}$ "	38'5"	$\infty$
4	2'10"	3'8 $\frac{1}{2}$ "	4'6 $\frac{1}{2}$ "	5'4 $\frac{1}{2}$ "	7'7 $\frac{3}{4}$ "	10'11 $\frac{1}{2}$ "	16'8"	48'2 $\frac{1}{4}$ "
	3'2 $\frac{1}{4}$ "	4'4"	5'6 $\frac{1}{2}$ "	6'9 $\frac{1}{2}$ "	10'11 $\frac{1}{4}$ "	19'4 $\frac{3}{4}$ "	49'10 $\frac{1}{2}$ "	$\infty$
5.6	2'9 $\frac{1}{4}$ "	3'7 $\frac{1}{4}$ "	4'4 $\frac{3}{4}$ "	5'2"	7'2 $\frac{1}{2}$ "	10'1"	14'8 $\frac{1}{2}$ "	34'9"
	3'3"	4'5 $\frac{3}{4}$ "	5'9 $\frac{1}{2}$ "	7'2 $\frac{1}{4}$ "	11'11 $\frac{3}{4}$ "	22'11"	82'10 $\frac{1}{4}$ "	$\infty$
8	2'8 $\frac{1}{4}$ "	3'5 $\frac{1}{2}$ "	4'4 $\frac{1}{2}$ "	4'10 $\frac{1}{4}$ "	6'7 $\frac{3}{4}$ "	9'	12'6 $\frac{1}{4}$ "	24'6"
	3'4 $\frac{1}{2}$ "	4'8 $\frac{3}{4}$ "	6'2 $\frac{1}{2}$ "	7'10"	13'11 $\frac{1}{2}$ "	31'6 $\frac{1}{4}$ "	$\infty$	$\infty$
11	2'7"	3'3 $\frac{1}{2}$ "	3'11 $\frac{1}{4}$ "	4'6 $\frac{1}{2}$ "	6'1 $\frac{1}{2}$ "	7'11 $\frac{1}{4}$ "	10'6 $\frac{1}{2}$ "	17'10 $\frac{3}{4}$ "
	3'6 $\frac{1}{2}$ "	5'1"	6'10"	8'10 $\frac{1}{2}$ "	17'7"	59'5"	$\infty$	$\infty$
16	2'5 $\frac{1}{4}$ "	3'1 $\frac{1}{2}$ "	3'7"	4'1"	5'3"	6'7 $\frac{1}{2}$ "	8'4"	12'4 $\frac{1}{4}$ "
	3'10 $\frac{1}{2}$ "	5'9 $\frac{1}{2}$ "	8'2 $\frac{1}{4}$ "	11'3 $\frac{3}{4}$ "	31'1"	$\infty$	$\infty$	$\infty$