

Single-Lens Reflex Camera

OPTIKA

INSTRUCTIONS

OPTIKA

EXTRA

MUSASHINO OPTICAL COMPANY, LTD.
TOKYO, JAPAN

FEATURES OF YOUR "OPTIKA" CAMERA

The Optika uses the popular 135 roll film and produces either of the three following different sizes of negatives:

$2\frac{1}{2} \times 1\frac{1}{2}$ for 15 exposures,

$2\frac{1}{2} \times 2\frac{1}{4}$ for 12 exposures,

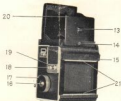
$2\frac{1}{2} \times 3\frac{1}{4}$ for 10 exposures.

For versatility the Optika uses, with equal ease, the $2\frac{1}{2} \times 3\frac{1}{4}$ professional size film, obtainable in film pack and cut film. This ability to interchange film and film size at a moment's notice, without loss of a single frame, will cover the various situations that are encountered in photography.

The Optika has interchangeable lenses, a feature that many $2\frac{1}{2} \times 2\frac{1}{4}$ reflex cameras cannot offer. Also interchangeable lens board to enable fast change of a lens with minimum loss of time.

Now, due to the new "retract principle" of the reflex mirror incorporated in the Optika, a wide choice of lenses is available to be used with the camera from the 50mm to the 600mm lens. No other camera has ever before obtained such features; this "retract principle" enables Optika to be used with this wide range of lenses.

The standard lens for the Optika is the full coated "Luminant" 105mm f/3.5 lens with pre-set system. Weight of camera 3.7 pounds (1.6kg) without roll holder.



1. Focusing hood.
2. Sports finder.
3. Lens cover.
4. Locking plate for lens panel.
5. Removable lens panel.
6. Shutter release.
7. Focusing knob.
8. Tripod screw mount.

9. Flash gun shoe.
10. Speed adjustment.
11. Carrying strap clasp.
12. Focusing hood release button.
13. Sports finder (rear).
14. Focusing hood clasp.
15. Film holder lock.
16. Shutter and mirror wind.

17. Safety lock.
18. Flash nipple.
19. N. F. synchronization.
20. Magnifier for critical focusing.
21. Protection slide.
22. Iris ring.
23. Guide ring.

HOW TO USE THE OPTIKA CAMERA

1. Push release button (12) to allow hood to open.
2. Lift lens cover (3).
3. Set the shutter by rotating shutter knob (16) clockwise until it stops with red line directly opposite the white dot. The shutter is now cocked. Cocking the shutter also brings down the mirror. The Optika is now ready for exposing by pressing shutter release (6).

NOTICE

If knob (16) is not rotated completely until it stops with the red line directly opposite white dot, pressing the shutter release will have no effect.

Speed adjustment knob (10) must be allowed to rotate freely when shutter (6) is released. If speed knob (10) is not allowed to rotate freely, it may cause shutter knob to stick so that red line will not match white dot. This is not a breakdown. Simply press and turn slightly the release button (6) in either direction. Rotate knob (16) at least two turns until red line is opposite white dot. Release shutter by turning button (6) in either direction until it frees. Rotate knob (16) until it is once more lined up with the red line opposite the white dot. Press release (6). The Optika is now ready for normal operation.

To set the shutter speed, pull and rotate speed knob (10) in either direction and release in the desired position. Shutter speed may be changed only after the shutter is set. Shutter must be set in order to read the speed scale correctly.

For time exposure, set speed knob (10) to B. Press and rotate release (6) slightly until the shutter is held. The shutter is now held open for time exposure. To close the shutter after the desired ex-

posure, rotate release (6) in either direction until it returns to its normal position.

For flash synchronization, use focal plane (FP) flash bulbs. Set synchronization indicator (19) to F. Set shutter speed for $\frac{1}{125}$ second or less. After the lens opening is determined and set, the Optika is ready for exposure.

When electronic flash (speed light, strobe) is used, set synchronization indicator (19) to X. Shutter speed must be set at $\frac{1}{125}$ second only.

For close ups to 13 inches with the standard 105mm lens, unscrew the lens from the lens board. Remove the lens board from the Optika. Turn the lens board around with the polished side facing the Optika. Replace the lens board in this reversed position. Make sure red dot on lens board is on top when replacing the lens board. Screw the lens in. For closer photography than 13 inches, use the extension tube. For even closer picture taking, use the extension tube with a shorter focal length lens.

Remarks:

PRE-SET SYSTEM

To operate the pre-set shutter system, adjust the guide ring (23) to the desired f-stop or lens opening. The pre-set system is now set for picture taking. Rotate iris ring (22) to full shutter opening for sharp and clear focusing: Rotate iris ring (22) in the other direction and it will stop at the pre-set lens opening.

THE OPTIKA ROLL FILM HOLDER

The Optika roll film holder is specially designed and manufactured to be used exclusively with the Optika camera. It is compact, sturdy and attractive.

The roll film holder is easy to load and has the advantage of using three different film sizes. The Optika holder uses 120 roll film giving ten exposures at $2\frac{1}{2} \times 2\frac{1}{4}$ (6 cm $\times$ 7 cm) or twelve exposures at $2\frac{1}{2} \times 2\frac{1}{4}$ (6 cm $\times$ 6 cm) or fifteen exposures at $2\frac{1}{2} \times 1\frac{3}{4}$ (6 cm $\times$ 4.5 cm).

HOW TO LOAD AND USE THE ROLL FILM HOLDER

Open catch (G) and the lid (A) springs open. Opening the lid (A) will set the exposure counter (F) to 0. Thread the 120 roll film between the slit on the right side of the holder as shown in the illustration. Turn and lift knob (B) until it stays out. Insert the roll film into the chamber making sure that it will rotate in a clockwise motion.

Turn and lift knob (H) until it stays out. Remove the take-up spool (I). Insert the film into the slots of the take-up spool and rotate spool counter clockwise in order to tighten the film around the spool. Return the spool to its chamber and lock same securely in place.

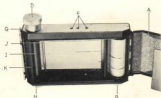
Rotate knob (D) counter clockwise to unwind the film. Proceed until the Arrow sign on the film is opposite the Pin Roller (J). Close lid (A) and lock it. For ten (6 cm $\times$ 7 cm) exposures use counter #1. For twelve (6 cm $\times$ 6 cm) exposures use counter #3. For fifteen (6 cm $\times$ 4.5 cm) use counter #2. After choosing the desired film size and its corresponding counter, disregard the two other remaining windows. Rotate winding knob (D) until the black line on the exposure counter (F) is opposite the red line of the moving dial on the counter indicating No. 1.

1. To wind film, rotate knob (D) counter clockwise with the result that the film will be wound inside out on the take-up spool.
2. In order to prevent accidental fogging whilst winding, a metal shield has been provided over the take-up spool, as a means of protection.
3. The correct starting position for the film is indicated by the co-incidence of the ARROW SIGN with the Pin Roller (J). When this position is reached the cover (A) may be closed.

Remove the protective slide (21) from the back of the Optika camera. Insert the roll film holder. Lock the holder in position by pushing down lock (15). Pull out the slide (K) of the roll holder. The Optika is now ready for taking ten (5 cm $\times$ 7 cm) pictures on 120 roll film.

If one of the other two film sizes is being used, place mark (L) for twelve (5 cm $\times$ 6 cm) pictures, or mark (M) for fifteen (5 cm $\times$ 4.5 cm) pictures. Insert the chosen marking frame into the slot now vacated by the slide lid (K) of the holder. After the first picture is exposed, rotate knob (D) until the black line is opposite the red line of the figure two on the moving dial. Remember to line up the black line with the red line only on the counter of the film size being used.

Repeat the above method to advance film for exposure three, four, etc. Please note, for fifteen exposures on counter 22, that the even numbers are left out for lack of space and only a horizontal red line is used. When the complete roll film is exposed, open lid (A); the exposure counter (F) will re-set to 0. Pull out knob (H) and remove the exposed film from the holder. Remove the empty spool on the right and insert it into the left chamber of the holder.



The empty spool has now become the take-up spool (1).

Remark: Special care should be taken in the adequate handling of the film after all exposures have been made. In addition to the end sign ㊦ visible in the window, the knob (D) will click several times when rotated. This marks the proper time for opening the rear cover (A) and for taking out the film spool.

If there is still some un-exposed film remaining in the roll holder, remember to insert the roll holder before removing it from the camera's back.

If the exposure counter (F) does not re-set or function correctly, close the lid (A). Rotate knob (D) two turns and open lid (A) again. The exposure counter has now returned to ㊦.

The same roll of film can be used alternatively for various film sizes, switching from one to another, however, then result unused portions of film.

Remember to close the lid (A) completely.

Lenses for exchange use:

1. Standard: "LUMINANT" 105mm F 1:3.5 Preset system
2. Long focus lens: "LUMINANT" 180mm F 1:4.5
3. Long focus lens: "LUMINANT" 210mm F 1:4.5
4. Tele. lens: "LUMINANT" 300mm F 1:5.6
5. " " " 400mm F 1:5.6

Accessories:

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| 1. Holder with adaptor both for $\left\{ \begin{array}{l} \text{cut film,} \\ \text{dark slide.} \end{array} \right.$ | 5. Film pack holder. |
| 2. Roll film holder. No. 1 | 6. Lens Board. |
| 3. " " " No. 2 | 7. Direct vision focusing adapter. |
| 4. Fresnel lens viewing glass. | 8. Grip handle with metal cable release. |