INSTRUCTIONS

for use



Automatic 35 mm

Twin-Lens Reflex Subminiature Camera precision-built in Switzerland by



Concava S.A. Lugano-Cassarate





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Read the Instructions first...

The Tessina is a masterwork of Swiss precision, designed for your pleasure and success in photography, but... first you must thoroughly study the instructions for use I

Practice with the empty camera!

Operate your Tessina without film until handling becomes completely automatic. This will give you the full benefit of all the camera's special advantages. You can carry your Tessina with

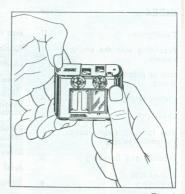


Fig. 2

you all year, always ready for instant action, without any fumbling and hesitating.

Prepare for picture taking

Slide the lens cap aside as far as it goes (Fig. 2), so that it uncovers the two parallax-corrected, hazefiltered Tessinon 25 mm f/2.8 lenses: The one to the right is the viewing lens, the one to the left the picture-taking lens.

Pull out the winding knob 9 and turn it (direction of arrow) until the mechanism is completely wound, then push it back again. Hold the Tessina in your left hand, the thumb on

top of the camera (without touching the exposure counter) and aim it at your subject. Move forward or backward until the picture on the groundglass is perfectly framed.

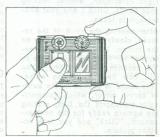


Fig. 3

Picture Taking

Hold the Tessina with your right hand as well and depress the release button 6 slowly with your right forefinger, without moving your hands. Click I and your photograph is taken.

After hearing the click of the release, slowly relax the pressure on the button. This is especially essential for long exposures (½ to ½ seconds and B (Time). You will now hear a buzzing noise. This sound is caused by the builtin spring motor, which automatically transports the film, making the camera ready for the next exposure. "Click" and you took another picture. "Click" means the photograph is taken!

"Bzzzz" means the film is advanced!

When taking time exposures (speed dial set to B), the shutter opens at the click, closes again when the buzzing is heard. Time exposures require absolute immobility, i.e. the camera must be fixed on a tripod or another suitable support.

Complete AUTOMATION:

There is no need to wind the camera after each exposure. Your Tessina automatically takes care of the film transport for you: you can take 5-8 photos in a row without rewinding I

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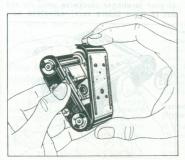


Fig. 4

Always load your Tessina in dim light or while shielding the camera with your body from direct light.

Push catch 7 to "O" (for open) and remove the back of the camera (Fig. 4).

Pull out both winding knob 9 and rewind knob "R" 14 completely.

Turn the take-up spool in the camera towards the mirror, so that you can insert the loose end of the film under the black spring clip.

Unwind just enough film, so that the Tessina cassette drops into its place. Make sure that the two

visible sprockets of the film transport wheel engage firmly in the perforations, and that the film is tight (Fig. 5).

Replace the back by fitting it first over the two pins at the left side, then lock it on the right side with the catch.

Check the film tension by pushing the rewind knob "R" 14 down about "/s" to its clickstop and turning it gently (direction of arrow), until you feel a slight resistance.

Wind the spring motor by turning the winding knob 9 (direction of arrow) as far as it goes. Push both rewind knob "R" 14 and winding knob 9 down completely.

Move exposure counter dial 2 with the tip of your forefinger clockwise until its red dot (2 lines before zero) coincides with



Fig. 5

the red index mark on the black ring around it!

Press the release button twice. While you hear the buzzing noise, the rewind knob "R" 14 must turn, indicating that the film is transported.

Your Tessina is now ready for action!

Now for your photographs !

Choose your exposure speed from 1/2 seconds to 1/200, with an exposure meter or from the exposure chart, and turn dial 11 with the tip of your forefinger, until the correct speed is opposite the index mark.

Select your diaphragm from f/2.8

to f/22, and turn dial 1 until the correct f/stop is opposite either one of the 2 white index marks. In order not to crowd the diaphragm dial, the diaphragm scale is repeated twice and has 2 index marks. The right side shows the figures f/2.8, 4, 8 and 16, while f/5.6, 11 and 22 are indicated by lines. The left side shows the figures f/5.6, 11 and 22, while f/2.8, 4. 8 and 16 are indicated by lines. You can set the aperture at either the left or right index mark.

Permanent distance setting (Hyperfocal distance)

If you set the distance dial 5 at 10 feet and stop down to f/5.6, your Tessina will automatically give you sharp images for any

distance from infinity all the way down to 7 feet. Now you only have to change the shutter speeds according to the ASA rating of your film and the varying light condi-

tions. This is a very convenient setting for general use as well as rapid action shots



Framing and Focusing

Frame your subject on the groundglass of window 8, and make it as large as possible, a basic ground rule in photography. If necessary, focus the lenses for sharpness by turning distance dial 5.

Take your picture by gently pressing the release button. (See also instructions on page 4).

View- and sportsfinder

This accessory is especially useful for action shots and horizontal viewing and also eliminates reflections on the groundglass. The finder slides on top of the groundglass and opens by pressing the button. When viewing horizontally bring the eye as close as possible to the little frame, Close the viewfinder by pushing down the 2 side guards first, then the small frame, finally the large one. Should the release fail to operate.

Check if the sliding cap is fully

opened, if the spring motor is completely wound or if the film is used up (see below).

End of the film

If the exposure counter shows 23 exposures of black and white or 18 exposures of color film, it is time to stop shooting.

Rewinding the exposed film

Pull out rewind knob "R" 14 to its clickstop (Fig. 6, circle A). The slight play of this knob is a technical necessity. Raise rewind lever "R" 10 (Fig. 7) and

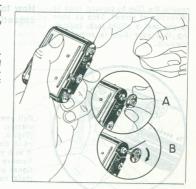
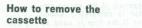


Fig. 6

rewind the film by turning knob 14 (direction of arrow). Stop as soon as you feel a slight jerk, indicating that your film is completely rewound.





Pull rewind knob "R" 14 out completely, while turning it slightly (Fig. 6, circle B). Open the camera in dim light or while shielding it with your body from direct light. Remove the cassette and—as additional precaution—put it into its metal can at once.

Tessina Cassettes

While photographic dealers will offer Tessina cassettes that are already loaded with certain types of film, a daylight self-loader (see page 14) enables you to load your Tessina cassettes yourself with any 35 mm film.

Film length

The Tessina cassette holds 16½" (41 cm) of black and white film or 14½" (36 cm) of the thicker color film. For cutting the film in the dark room it is recommended

to prepare two rulers for these two film lengths.

May we suggest that you practise this first with the dummy film supplied with each selfloader.

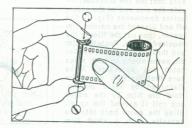


Fig. 8

in the dark room

Remove the lid of the cassette and take out the spool. Make sure that the red crossbar, inside the one end of the spool, points downwards (Fig. 8). Cut off and discard the narrow film leader, then cut the film to the required length. Push the film end through the spool, so that the perforations on both sides catch the sprockets. Make sure that the film cannot be dislodged by mere pulling. Hold the film by the edges and roll it around the spool. Slide the spool back into the cassette, with a short film

Loading of bulk film leader coming out through its lips (Fig. 9), then put the lid on again (Fig. 10).



Fig. 9

The Tessina cassette is now ready for use. It is recommended to store it for a while in its light-proof metal can before use, so as to counteract the original film curl.

ond clip to the beginning of the film, which makes it ready for processing in the developing tank.

Removing of film in the dark room

Remove the lid and take out the spool. Fix a clip to the film-end, unroll the film and detach it completely from the spool. Fix a sec-



Fig. 10

Loading with the daylight selfloader

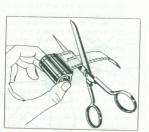


Fig. 11

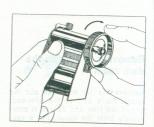


Fig. 12

This practical accessory permits easy transfer of any 35 mm film from a standard cartridge into a Tessina cassette.

Black and white film

Unwind about 3/4" (2 cm) of film from the original cartridge. Cut off and discard the narrow filmleader (Fig. 11). Fasten the film to the spool of the special Tessina cassette (see page 12), put the spool back into the cassette and close the lid.

Take the selfloader and turn its large knob (opposite direction of arrow) to the clickstop (Fig. 12). Press the little lever fixed to the knob, so that the red dot is in upward position (Fig. 13).



Fig. 13

Open the lid of the selfloader (Fig. 14). Push the small knob down and turn the triangular knife attached to it out of the way, i.e. parallel to the film channel (Fig. 15). Place both the Tessina cassette and the 35 mm cartridge in their places, while sliding the connecting film into the film channel (Fig. 16). If the Tessina cassette does not go down completely, turn the large knob (direction of arrow, up to half a turn) while pressing down the cassette, until it moves into place. Turn the knife back to its original position and pull it up just so far that you can close the lid again.

This practical accessory permits easy transfer of any 35 mm lilm from a standard cartridge full a Tousina cassette.



Fig. 14

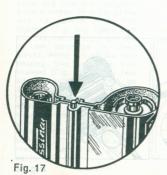
low turn the large knob (direction of arrow) until it responses the lickstop, which transfers to \(\lambda\)' and the direction the lark and white direction the monetaring of a region of the monetaring of the lessions.





Fig. 15

Fig. 16



Now turn the large knob (direction of arrow) until it reaches the clickstop, which transfers 161/2" of black and white film from the 35 mm cartridge into the Tessina cassette. Cut the film by pulling the small knob with the knife all the way out (Fig. 18). Open the selfloader and take out both 35 mm cartridge and cassette.

Color film

Follow the same procedure except for one difference: push the red dot of the lever on the large knob into downward position (Fig. 19). This way the winding knob will load only 141/2" of color film until it reaches the click stop.





engargotodqFig. 19

Attach the cable of the leash gun by contact 13. Turn dielig, so that one of the 3 letters is opposite the idex mark;

Fig. 18

Cleaning the optics

Both lenses and reflex mirrors are made of finest optical glass. Clean them with the special brush, taking care never to hold the brush by its hairs, so that they do not become greasy. Whenever you change film, brush away any dust that may have gathered on the reflex system.

Flash photographs

Attach the cable of the flash gun to contact 13. Turn dial 12, so that one of the 3 letters is opposite the index mark: M = 20 milliseconds delay (flashbulbs)

F = 5 milliseconds delay (flashbulbs)

X = zero delay
(electronic flash)

Special adapters enable you to fit a flash gun or an exposure meter to the camera.

OTHER TESSINA ACCESSORIES Tripod plate

Place the plate over the four rivets on the back of the Tessina, so that the two red dots coincide (Fig. 20, A). Slide the plate to the

side, so that its slots engage on the rivets, thus bringing the two red points closer together and engaging the large locking pin (Fig. 20, B).

To remove the plate slide it in the opposite direction, while pressing the large locking pin, seen through the engaging slot.

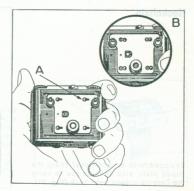


Fig. 20

Neckchain



Equipped with an additional chain the tripod plate also enables you to carry the Tessina around your neck (Fig. 21).



Fig. 21

Wriststrap

You can fasten the Tessina to your wrist like a watch, a unique method for motorists, climbers and other sportsmen, as well as for candid photography. The wrist strap attaches the same way as the tripod plate (see page 21). Fig. 22 shows it in use.



Fig. 22

Magnifier

(8× magnification) (available in 1961)

A special accessory magnifier, which slides over the groundglass 8, instead of the view- and sportsfinder, makes critical focusing even easier. Adjust the magnifier to your own eyesight by pointing the Tessina skywards and turning the eyepiece until you see the grain of the groundglass critically sharp (+ and — 3.5 diopters).

Pentaprism

(6× magnification)
(available in 1961)

This prism finder which also slides over the groundglass 8 reinverts

the reflex image to correct left/
right position. For viewing horizontal subjects you can hold your
Tessina against the forehead, so
that the prism finder is in front
of the right (or left) eye. As on
the magnifier the eyepiece can be
adjusted for individual eyesight.

Carrying Cases

A de Luxe case with zipper or a simple case, attachable to a belt or strap, give your Tessina additional protection.

Per-O-Color frames

For permanent protection of your Tessina transparencies special slidemounts with glass can be supplied.

BRIEF INSTRUCTION GUIDE FOR QUICK REFERENCE

A. Loading

- Remove camera back by pushing catch to "O".
- Pull out rewind knob "R" completely.
- Insert loose end of film under spring of take-up spool, so that perforations engage on each side.
- Unwind enough film to drop cassette in its place, making sure that perforations engage

in the sprockets of the film transport wheel.

- Replace back by fitting it over the two pins at one side and lock the catch on the other side.
- Push in rewind knob "R" slightly to its clickstop, turn it gently until you feel a slight resistance, then push it in completely.
- Pull out winding knob and turn it (direction of arrow), until motor is fully wound.

- 8. Set exposure counter so that B. Picture Taking red dots coincide.
- 9. Slide lens cap sidewards, until both lenses are completely uncovered. Videologo cooleeff ve
- 10. Press release button twice, taking 2 pictures and advancing film leader exposed during loading, Rewind knob "R" must turn, indicating that film is transported.

- 1. Set exposure and diaphragm dials according to exposure meter or exposure chart.
- 2. Frame your subject on groundglass and adjust distance dial if necessary, until image is critically sharp, or set distance dial permanently at 10 feet and diaphragm dial at f/5.6, which brings all pictures from infinity to 7" feet into co focus. all double thiwall A
- 3. Press release button carefully.

 If motor is fully wound, the film transports automatically: you can take 5-8 pictures in a row without rewinding.

Should the release fail to operate, the reason may be:

- Sliding lens cap is not completely open.
- 2. Motor is not wound up.
- 3. Film is at its end. brishestiwa)

C. Removing cassette

After 23 black and white or 18 color pictures, the exposed film must be rewound.

- 1. Raise rewind lever "R".
- Pull out rewind knob "R" to its clickstop and turn it (direction of arrow), until the whole film is rewound.
- 3. Remove back. easure into a odi
- Pull out rewind knob "R" completely.
- 5. Remove Tessina cassette and put it into its can.

IMPORTANT DE MINORES OF A

Due to its reflex system and contrary to the usual practice, Tessina negatives must be put in enlargers or printers in reversed position, i.e. with the emulsion side facing the light source. The markings on the film will also be seen in reverse, except on Tessina Adoxfilm, where they are correct.

The same goes for color transparencies projected to a screen, i.e. the emulsion side of the slide must face the light source.

Remember!

The Tessina is a little masterpiece of precision, which must be handled with care and understanding! You must be thoroughly familiar with its operation. If you need any further information, see your franchised Tessina dealer who will be happy to give you the necessary advice.

Good hunting I

CONCAVA S.A., Lugano-Cassarate (Switzerland)

Attention

Remind your dealer or photofinisher that the TESSINA negatives must always be placed in reversed position into either enlargers or printers, i.e. emulsion side facing the light source. Otherwise your images will be reversed!

U. S. Agents:



480 Lexington Ave. New York 17, N.Y. YUkon 6-4920