

HOLGA 120PAN
PANORAMIC CAMERA

OPERATION INSTRUCTIONS

Welcome to owning this special piece of equipment!

This is a true panoramic camera that will make it possible for you to capture scenes spanning from left to right close to 180°. The result is simply overwhelming!

Enjoy!

1. Parts of the Camera

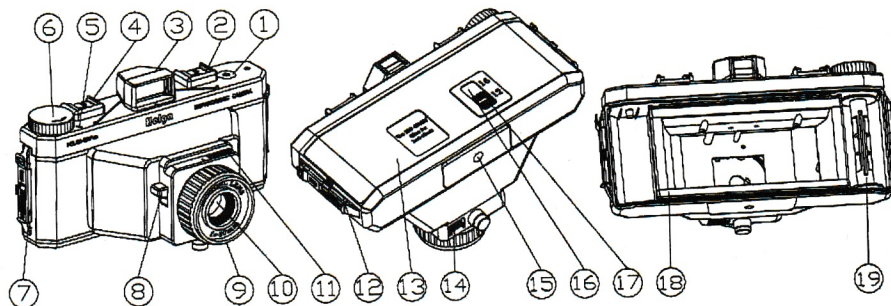


Fig. 1

- | | |
|---|--|
| (1) Horizontal Level Indicator | (11) Aperture Selection Switch |
| (2) Hot Shoe for External Flash (Left) | (12) Back Cover Latch (Left) |
| (3) View Finder | (13) Back Cover |
| (4) Hot Shoe for External Flash (Right) | (14) B-Mode Selector |
| (5) Film Position Marker for 135 Films | (15) Tripod Mounting Socket |
| (6) Film Advance Knob | (16) Frame Counter Window |
| (7) Back Cover Latch (Right) | (17) Film Capacity (Number of Frames) Marker |
| (8) Shutter Release Button | (18) Film Mask |
| (9) Focus Ring | (19) Take-Up Spool |
| (10) Lens | |

2. Film to Use

The camera can accommodate all 120 format films. The use of films with exposure speeds of ISO 100 on sunny days and ISO 400 on cloudy days/indoor occasions is recommended.

3. Film Loading

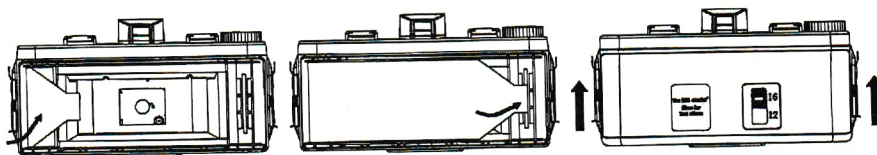




Fig. 2





- (a) Push downward the Back Cover Latches on the two sides to unlatch and remove the Back Cover.
- (b) Break the seal from the film roll.
- (c) The Film Chamber is on the left of the camera. Engage the hole on the top end of the film roll into the pin in the Film Chamber while sliding the film roll into the Chamber. The tapered end of the film must be pointing towards the Take-Up Spool on the other side of the camera.
- (d) Pull out about 14 cm of film while keeping the film roll flat inside the Chamber.
- (e) There is a longitudinal slot on the Take-Up Spool. Insert the tapered end of the film into this longitudinal slot and turn the Film Advance Knob 1 to 2 revolutions in the direction of the arrow sign i.e. counter-clockwise, carefully aligning the top and bottom edges of the film against the top and bottom edges of the Film Mask at the same time.
- (f) Reinstall the Back Cover and latch it in place on the two sides.
- (g) Turn the Film Advance Knob again in the direction of the arrow sign until the number "1" appears in the Frame Counter Window.
- (h) The camera is now ready for use.

4. Aperture Selection

There are two selections available - for good weather  and overcast days  respectively.

5. Focusing

Although this camera is basically a fixed focus camera, it still offers four choices of object distances. There are four symbols on the Focus Ring to select for the following object distances -

- | | | |
|-----|---|----------------------------|
| (a) |  | = 1m or 3.25 ft. |
| (b) |  | = 2m or 6.50 ft. |
| (c) |  | = 6m or 20.00 ft. |
| (d) |  | = 10m or 33.00 ft. or more |

Object distances other than above four can be approximately achieved by turning the Focus Ring to positions in between two symbols.

6. Picture Taking

- (a) Remove the lens cover.
- (b) Set the B-Mode Selector to the "N" position.
- (c) Select setting for aperture according to the weather condition.
- (d) Estimate the object distance and set the Focus Ring accordingly.
- (e) Look through the View Finder and compose your picture.
- (f) Press down the Shutter Release to have the picture taken.
- (g) Turn the Film Advance Knob in the direction of the arrow sign until the next **ODD NUMBER**** appears in the Frame Counter Window to get the camera ready for the next picture.

****IMPORTANT:**

A panoramic picture will use double the length of film for a regular picture. Care must be taken to advance the film until the next odd number appears in the Frame Counter Window to ensure that the already exposed part of the film for the last picture has been fully wound onto the Take-Up Spool. Otherwise, double exposure may occur and this may ruin the both pictures.

7. Use of B-Mode Exposure

This function is for taking pictures of extended-exposure at nighttime or on indoor occasions to overcome insufficient lighting or create special effects like giving a sense of motion to some moving object(s). The steps to be taken are as follows -

- (a) Mount the camera on a tripod. This is needed to avoid jerking the camera, which can occur even due to the breathing action of the photographer.
- (b) Set the B-Mode Selector to the "B" position.
- (c) Compose your picture and push down the Shutter Release Button for the length of time desired. Then, release the button to close the shutter to complete the picture taking cycle.

It is strongly recommended to install a Shutter Cord SC-30 and a Shutter Cord Connector SCC-120, both of which are optional items available separately, so that activation of the shutter can be carried out via the Shutter Cord to avoid jerking the camera when depressing the Shutter Release Button.

- (d) Set the B-Mode Selector back to the normal "N" position when extended exposure is no longer required.

8. Multiple-Exposure Effect

As film is advanced manually, this camera can help achieve special effects through multiple exposures by not advancing the film after a picture has been exposed. Each depression of the Shutter Release Button will bring about another exposure. This feature will provide more latitude for the photographer to try out his/her imagination. To achieve multiple exposures is very easy - simply do **NOT** advance the film after a picture has been taken. Between making full and zero advance of an exposed frame, the room for trying out one's creativity is simply without limit.

9. Removal of Film

The removal of film is preferably performed either in a dark room or inside a black opaque bag from which all external light is completely cut off.

Take following steps -

- (a) Turn the Film Advance Knob until no more number appears in the Frame Counter Window, which indicates that the whole film roll has been transferred and wound on to the originally empty Take-Up Spool.
- (b) Push downward the Back Cover Latches on the two sides of the camera to unlatch and remove the Back Cover.
- (c) Remove the film roll, which is now on the right hand side of the camera. Turn the spool of the roll to tighten up the roll and then use a piece of cellophane tape to tape the open end of the roll firmly in position. The film roll can now be sent for processing.
- (d) Transfer the now empty spool on the left to the Take-Up Spool Chamber on the right for as the Take-Up Spool use next time.

10. Use of Electronic Flash

When ambient light is insufficient for proper exposure, one can consider using external electronic flashes (available separately as optional items). As a panoramic picture covers a wide area, the camera is equipped with two hot shoes to enable the simultaneous use of two flashes to provide more light.

11. Some Suggestions

- (a) Always check to see that the lens caps have been removed before taking a picture.
- (b) Always take pictures with the sun behind the camera.
- (c) Always hold the camera steadily. If possible, mount the camera on a tripod.
- (d) Always press down the Shutter Release Button gently to avoid jerking.
- (e) Always advance the film until the next odd number appears in the Frame Counter Window after a picture is taken, unless multiple exposures are desired.
- (f) Always load or remove films in a dark room or light-proof bag.
- (g) Use flash(s) when taking pictures in insufficiently lit environments.
- (h) Always clean the lens with soft and smooth cloth only.
- (i) Never take pictures with an object distance of less than 1.50 metres.

12. Specifications

Type	120 medium format film type
Lens	F = 90 mm optical lens
Shutter	Speed = 1/100 sec.
Film to be Used	120 format color or black/white film
Film Mask Specification	6 x 12cm
Dimensions	205 x 117 x 107 mm
Weight	Approximately 250 g
Accompanying Accessories	One Hand Strap, one Film Mask and one Tape-Up Spool

12. Optional Accessories - 135 Film Adapter Kit - Model No. FA135-120Pan

This 135 Film Adapter Kit is available for purchase separately. With this kit, the camera can be converted to use 135 type films. The full height of the 135 film will be exposed i.e. from edge to edge vertically with the effective frame size reaching 24 x 108 mm - this makes the sprocket holes on the film appear as big black spots along the two sides of the picture, adding interesting surprises to the images from time to time.



Take by FA135-120Pan