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**ASAHI PENTAX**

**6x7**

# **OPERATING MANUAL**



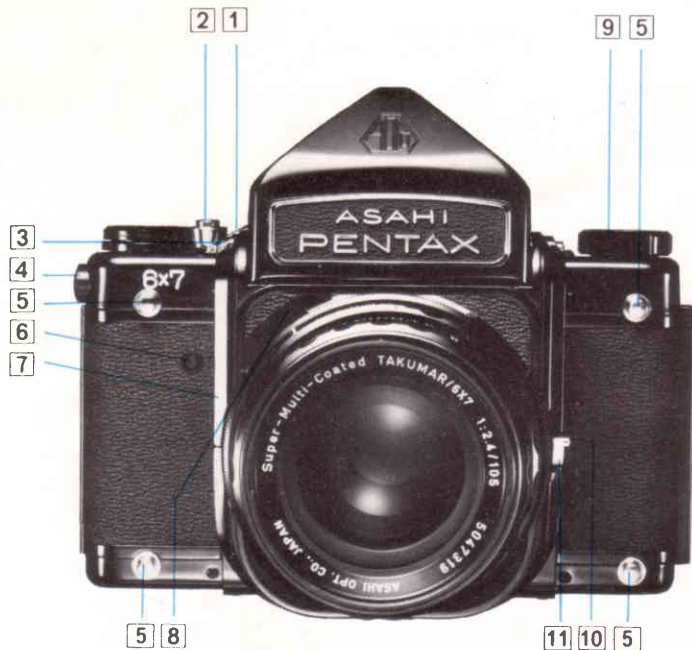
**ASAHI**  
**PENTAX**



As an experienced  
photographer, you know all  
about the basic technicalities of  
photography. So we have limited  
the contents of this manual to  
those instructions that apply to  
the operation of this ideal-  
format single-lens reflex  
camera.

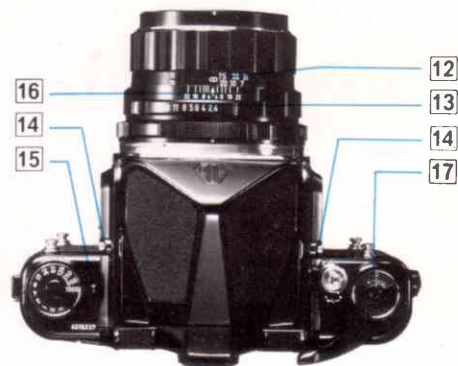
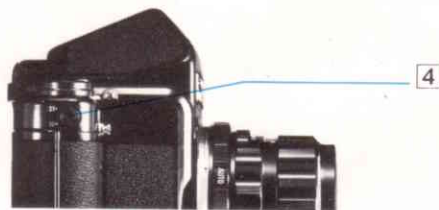
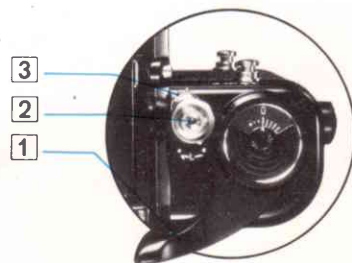
## Main Specifications

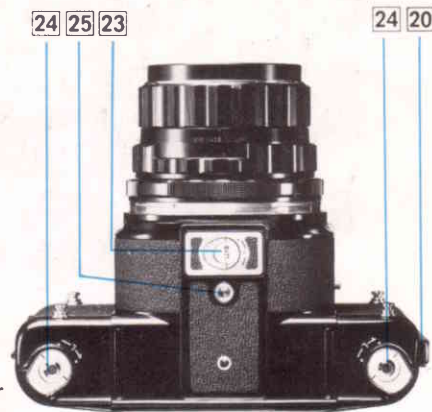
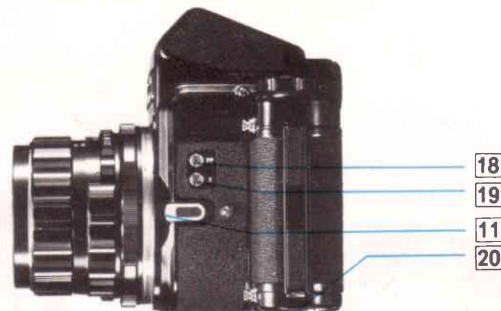
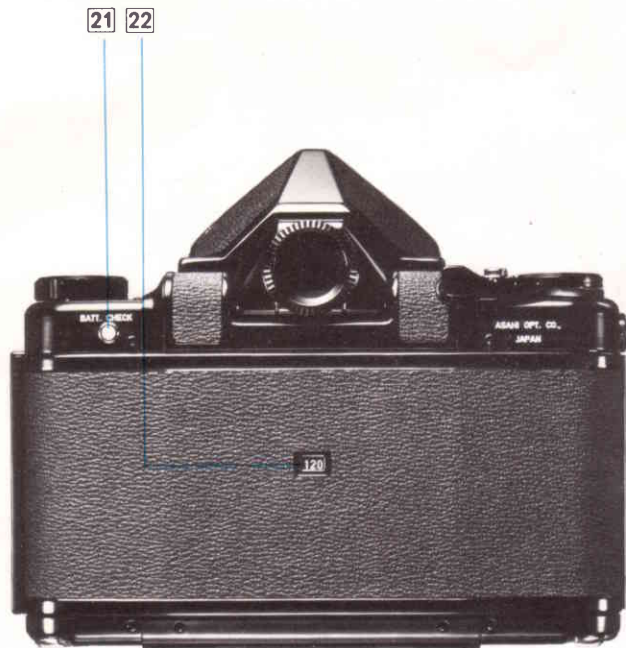
<b>Type</b>	Ideal-format single-lens reflex
<b>Film &amp; picture size</b>	120 roll-film (10 exposures) 220 roll-film (20 exposures) 55mm x 70mm (2-1/4" x 2-3/4")
<b>Standard lens</b>	Super-Multi-Coated Takumar/6x7 105mm f/2.4; 6 elements; fully-automatic diaphragm; 67mm filter size; minimum focusing distance of 1 meter (3.3 feet).
<b>Shutter</b>	Electronically-timed, double-curtain focal-plane shutter; X, B, 1 to 1/1000 sec.; powered with a 6V silver oxide battery (Eveready #544 or Mallory PX28)
<b>Reflex mirror</b>	Swing-back-and-up type instant-return mirror.
<b>Lens mount</b>	Two coaxial bayonet mounts; inner bayonet for lenses from 35mm to 300mm, and outer bayonet for lenses from 400mm to 1000mm.
<b>Flash synchronization</b>	FP and X terminals; electronic flash synchronization at 1/30 sec.
<b>Standard viewfinder</b>	Detachable pentaprism housing with interchangeable eyepiece.
<b>Dimensions</b>	184mm (width) x 149mm (height) x 156mm (depth) with standard lens.
<b>Weight</b>	Body 1,290 grams (45.5 ozs.) Standard lens 630 grams (22.2 ozs.) Pentaprism housing 460 grams (16.2 ozs.)



- 1 Rapid wind lever
- 2 Shutter release button
- 3 Shutter release lock
- 4 Film type dial
- 5 Neck strap lugs
- 6 Shutter/mirror reset button

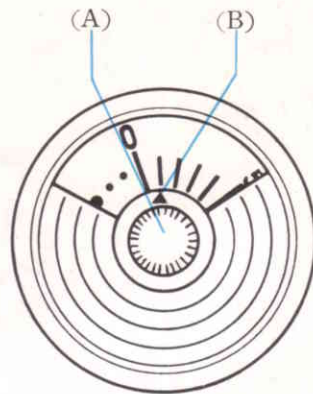
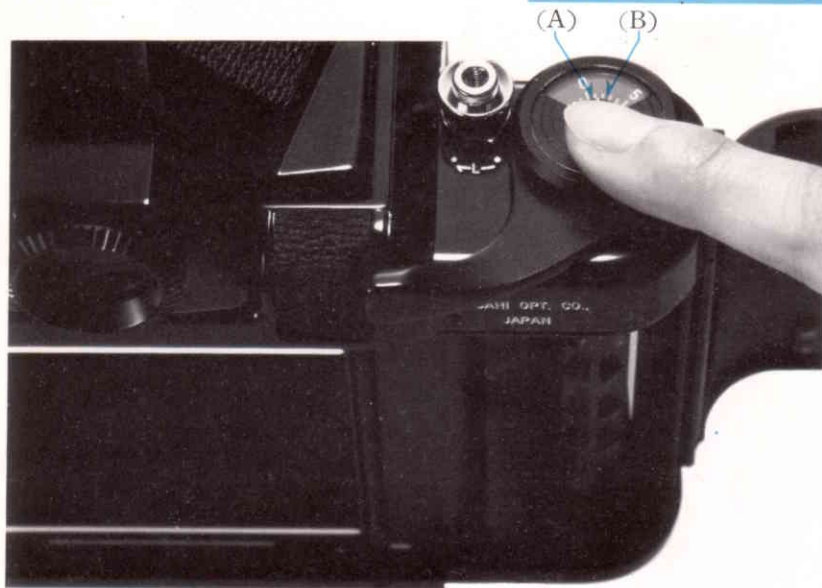
- 7 Mirror lock lever
- 8 Depth-of-field preview lever
- 9 Shutter speed dial
- 10 Camera grip pin
- 11 Lens release
- 12 Distance scale





- |   |                              |
|---|------------------------------|
| 13 Aperture scale                         | 20 Back cover release lever  |
| 14 Viewfinder release button              | 21 Battery check button      |
| 15 Battery check lamp/Shutter speed index | 22 Film type window          |
| 16 Depth-of-field scale                   | 23 Battery chamber cover     |
| 17 Exposure counter                       | 24 Film spool retainer knobs |
| 18 FP sync terminal                       | 25 Tripod socket             |
| 19 X sync terminal                        |                              |

### Operating the shutter without film in the camera



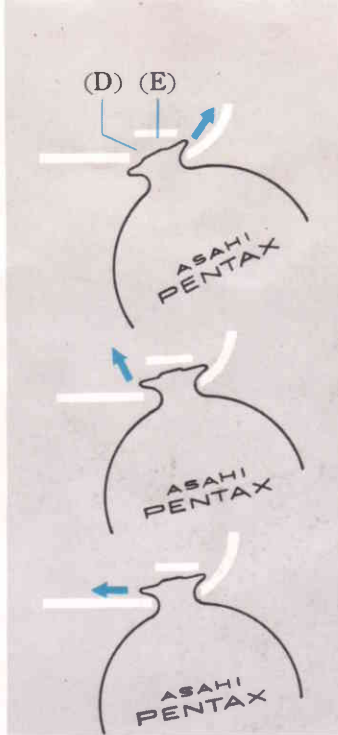
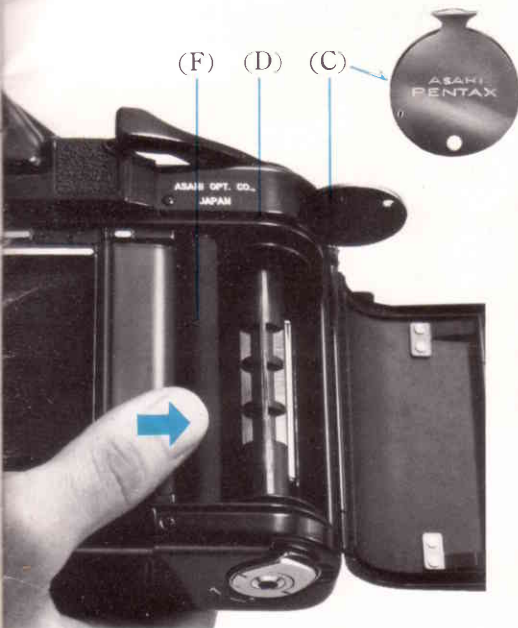
The shutter of this camera is so designed that unless the camera is properly loaded, you cannot cock the shutter although you can freely move the rapid wind lever. If you wish to cock the shutter without film in the camera, follow either one of the following two methods (I or II):

I) Open the back, and with your finger tip rotate the exposure counter dial (A) to the left. The exposure counter will then move to the left. When the "0" (zero) moves to the left of the index (B),

close the back while keeping the exposure counter at that position. The shutter is now ready for operating. This procedure is much easier than the next method.

II) Insert the shutter cocking key (C) into the slot (D) as illustrated, keeping the small metal bar (E) depressed. Then turn the film roller (F) TO THE RIGHT until the film exposure counter indicates one (short white line next to "0".)





DO NOT TURN THE FILM ROLLER BEYOND THIS POINT. DO NOT TURN IT TO THE LEFT. This is extremely important to prevent damage to the precision shutter cocking mechanism.

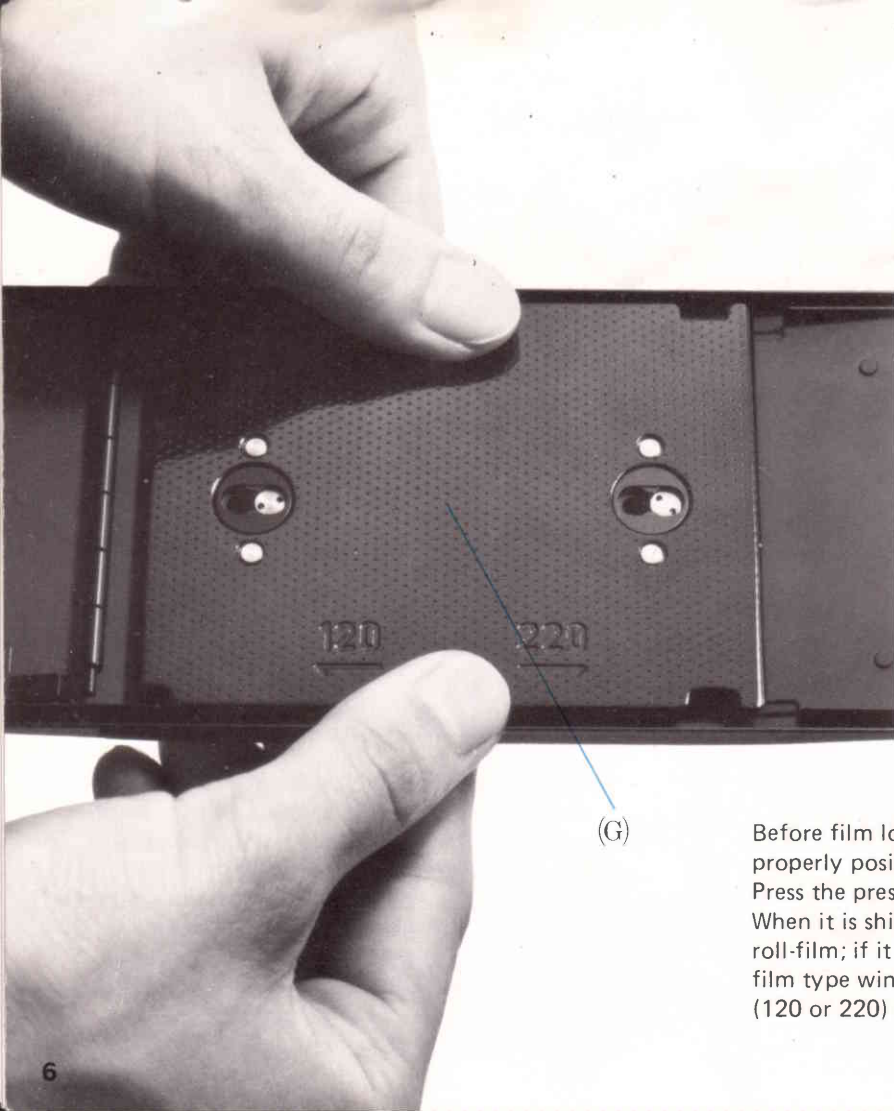
The shutter is now ready to be operated: you can cock the shutter by advancing the rapid wind lever with the back cover open. The exposure counter, however, does not operate without film in the camera. When the shutter is fully cocked, you can remove the shutter cocking key and close the back cover. You

can then release the shutter as many times as you wish. If you reopen the back, the shutter will cease operating. If you reopen the back and close it without releasing the shutter, it will continue to operate without film being loaded.

If you wish to operate the shutter successively with the back cover open, the shutter cocking key must remain inserted to keep the shutter in its operating condition.



## 120/220 Film type settings



(G)



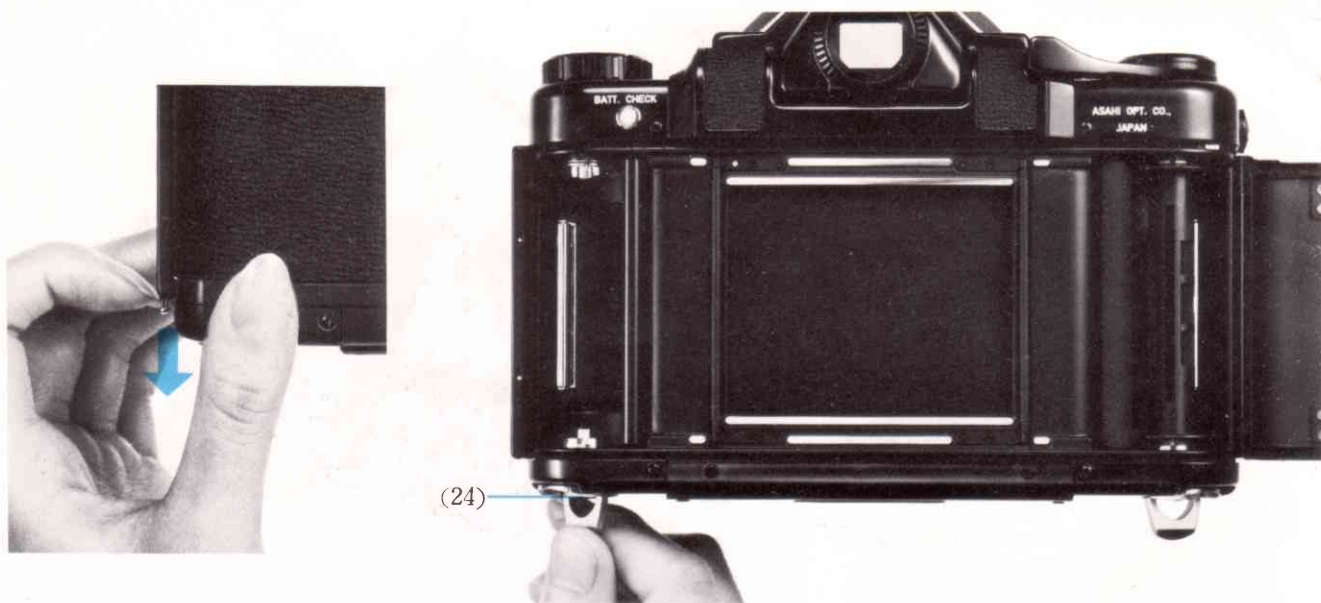
Before film loading, the pressure plate (G) must be properly positioned for the type of film to be used. Press the pressure plate and shift it to the left or right. When it is shifted to the left, it is positioned for 120 roll-film; if it is to the right, it is for 220 roll-film. The film type window (22) indicates for which type of film (120 or 220) the pressure plate is positioned.



The film type dial (4) should also be properly set. Set it at 120 (indicated in green) for 120 roll-film, and at 220 (indicated in orange) for 220 roll-film.

After loading the film and closing the back cover, if necessary, this setting can be changed from 120 to 220, but it cannot be changed from 220 to 120.

## Film loading and unloading

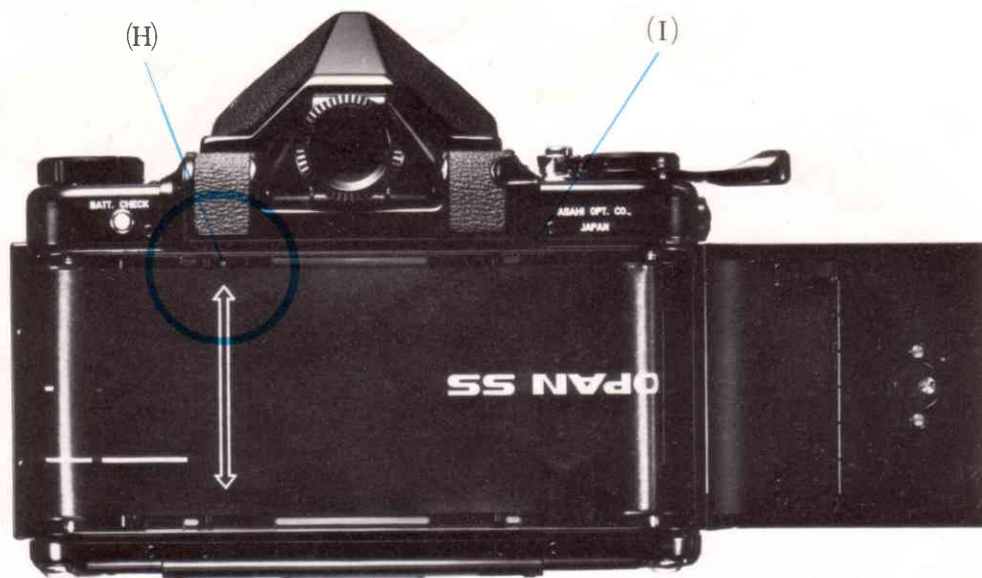


Pull down on the back cover release lever (20) to open the camera. The film spool retainer knobs (24) hold the film spools securely in place. To load or remove film, unfold the crank of the knob, turn it to the left until it stops, and pull out the knob.

The Start Mark for 120 film is indicated in green and appears at the top left-hand side of the film plane (H, Page 9). The Start Mark for 220 film is indicated in

orange and is at the top of the right-hand side of the film plane (I). Align the start mark of the film with the appropriate start mark of the camera body, and close the back cover. You can keep advancing the rapid wind lever without releasing the shutter until the first film frame moves into the taking position.

When the exposure counter moves from 0 toward 1, the first film frame also moves into the taking position,

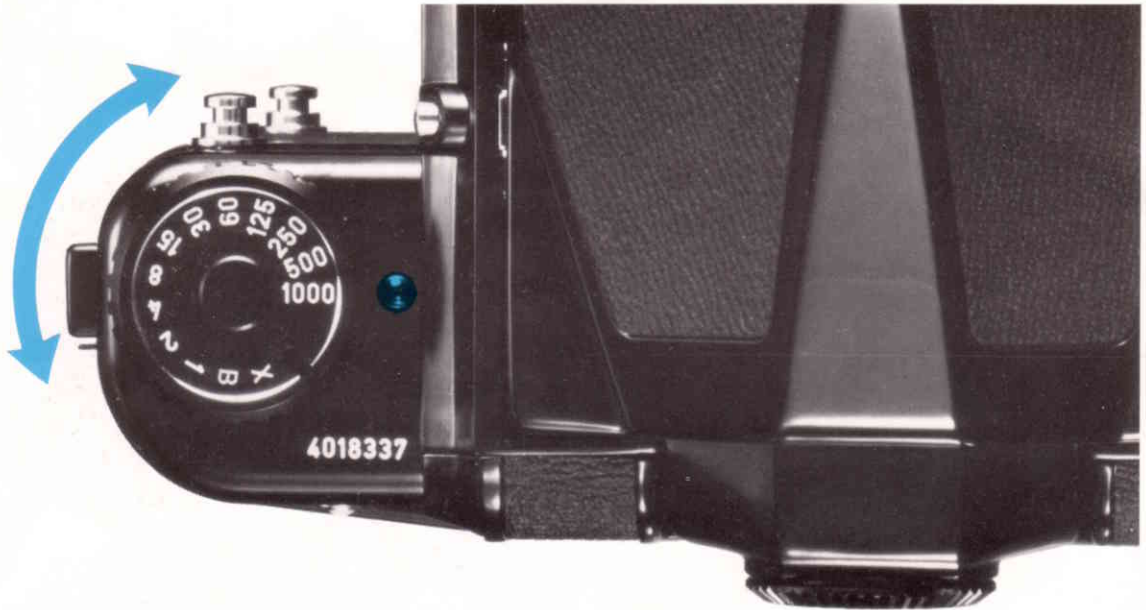


the shutter enters into its operating position, and the rapid wind lever will become tense as you cock the shutter.

After taking 10 or 20 exposures, according to the setting of the film type dial (4), the shutter will be disengaged from its operating condition. You can keep advancing the rapid wind lever, without releasing the shutter, to take up the remaining paper leader.

If you load 120 roll-film, but set the film type dial to 220, you must keep releasing the shutter in order to take up the remaining paper leader. If you load 220 roll-film, but set the film type dial at 120, the shutter will be disengaged from its operating condition and shutter self-cocking will stop after the 10th exposure.

## Shutter speed dial and shutter release button



The click-stopped shutter speed dial is actually a rotary electrical switch that brings a series of individual precision wire-wound resistors into play for each shutter speed. Because of this, intermediate speeds cannot be set. The shutter release button accepts a conventional cable release.

When the shutter release lock (3) points to the white dot, the shutter release button is unlocked. To lock