

MODEL IV

4x5in.(9x12cm)

The World's most versatile
Professional Camera

OPERATING INSTRUCTIONS

SUPER

TECHNIKA

OPERATING INSTRUCTIONS FOR THE SUPER TECHNIKA IV 4x5" *)

TO OPEN THE CAMERA:

Press down the rectangular catch at the top center of the camera bed to release the bed; let it down slowly until the struts (12) snap into the first notches.

TO PULL OUT THE LENS STANDARD:

Press the grips (17) at base of the standard together with thumb and forefinger, and pull lens standard out on the bed track to infinity stops (33).

TO CLOSE THE CAMERA:

First make sure that all adjustments are at "zero" position. Press the grips (17) at base of lens standard together, and push standard back into camera housing. Press down struts (12) and close the camera bed until it locks.

INFINITY STOP(S) AND DISTANCE SCALE(S):

For each factory-installed lens, a pair of Infinity Stops (33) and a Distance Scale are custom fitted on your camera. To facilitate identification, related infinity stops, distance scale, and rangefinder cam for each lens are marked with a matching color code as follows:

Red — normal lens	Green — regular telephoto lens
Black — regular wide-angle lens	Blue — extreme telephoto lens

Infinity Stops

are set by flipping up the spring-loaded center blocks; to by-pass infinity stops, flip the blocks down.

Distance Scales: see illustrated instructions D.

CHANGING LENSES: see illustrated instructions

BASIC ADJUSTMENTS FOR SPECIFIC LENSES. First install proper rangefinder cam — see illustrated instructions A.

WIDE-ANGLE LENSES: see illustrated instructions B or F.

NORMAL LENS (127 to 180 mm):

camera bed and lens board in normal position; (struts locked in first notches, lens board vertical). Flip up **red** infinity stops, pull standard to stops. The **red** distance scale applies.

TELEPHOTO LENS (240 or 270 mm):

camera bed and lens board in normal position. Flip up **green** infinity stops, pull standard to stops. The **green** distance scale applies. For 270 mm telephoto lens pull out scale stage to secondary stop.

TELEPHOTO LENS 360 mm OR NORMAL LENS 210 mm AND 240 mm:

camera bed and lens board in normal position. Flip up appropriate infinity stops, pull standard to stops. Release track lock (14) and slide out upper track until it snaps into secondary locked position to line up distance index line with infinity mark on distance scale which must be pulled out to secondary stop.

For **CRITICAL FOCUSING**, by scale or by rangefinder, turn left or right focusing knobs (18). The correct focusing position can be fixed by turning locking lever (19) outward.

THE MULTIFOCUS PRISM RANGEFINDER

permits critical focusing of any number of different lenses (from 90 mm to 360 mm) installed on the same camera. Each lens coupled to the rangefinder is supplied with a precise, individually calculated and plotted **large-curve** cam (13) to actuate the Multifocus Rangefinder system. Focal length and serial number of the lens, and the serial number of the camera, are engraved in the same color as the corresponding infinity stops and distance scale.

To CHANGE CAM: see illustrated instructions A.

RANGEFINDER FOCUSING:

Make sure that the cam inserted in the shoe (31) matches the lens used, and that the lens standard is at the correct infinity position. The camera back must be locked flush against the camera body, and the lens board in zero position. (The Multifocus Rangefinder cannot be used with tilts and swings). Two images are seen through the rangefinder eyepiece: a "direct" image through the upper rangefinder aperture, and a "reflected" image from the lower aperture. Turn the focusing knob (18) until the direct and reflected image have become **ONE**. The lens is accurately focused when the two images coincide in this manner. For consistently perfect results, look straight through the center of the rangefinder eyepiece.

THE UPPER TRACK (34) FOR TRIPLE EXTENSION

is used for long focus lenses, and for macro- and copy work. While holding down track release button (14), pull out upper track by finger grip (35); for full extension, also release forward track lock (20). **Remove cable release from body shoe before extending track.** For critical focusing, use focusing knobs (18). For maximum extension, the lens standard may be pulled out to the extreme front end of the upper track. — To return upper track, hold down lock (20) while pushing track home.

CABLE RELEASE (16): (not required when Anatomical Grip is fitted)

The pronged mount of the cable release can be plugged into the release shoe on the camera bed or on the camera body above the carrying handle. The camera may be closed with the release mounted on the camera bed.

THE SWINGING AND TILTING BACK:

(see 12 of illustration on back cover) is released by loosening the four captive screws (5), and pressing in and simultaneously pulling out the snap locks (13) on both sides of the back frame. The entire frame can be drawn back and, if desired, be tilted up to 15° in any direction including the diagonal; it is locked in position by tightening the screws (5). The back affords a means of controlling distortion, perspective, (Architecture, Industrial Photography, etc.), or to obtain increased depth of field without the necessity of using a smaller lens opening.

CAMERA MOVEMENTS:

Rising Front. Turn adjustment knob (11) to raise lens board and lens up to 45 mm (3/4").

Extreme raising of lens axis — see illustrated instructions K.

Tilting Lens forward or backward through horizontal axis. (See illustrated instructions H).

Swinging Lens in vertical axis — see illustrated instructions E.

Lateral Shift of lens — see illustrated instructions E.

Dropping of lens axis — see illustrated instructions L.

Extreme drop of lens axis — see illustrated instructions M.

Note: The extent of camera movement is limited by the covering power (angular field) of the lenses used. The use of camera movements is explained in LINHOF TECHNIQUE data sheets available from your Linhof Dealer.

*) Except for the Multifocus Rangefinder, these instructions also apply to the **TECHNIKA IV 4 × 5"**.

IMPORTANT: Before closing the camera, always return the lens standard to zero position indicated by index marks on side and base of standard.

SUPER TECHNIKA IV 4x5 in. (9x12 cm)



- 1

Eye piece of Multifocus Viewfinder.
- 2

Telescoping viewfinder housing.
- 3

Locking button for nine different focal lengths.
- 4

Ground glass frame of universal camera back.
- 5

Captive locking knobs (on four corners) for swing back.
- 6

*) Mount for Focuspot attachment, with milled screw cover.
- 7

*) Rangefinder windows (90 mm base).
- 8

Flash gun bracket.
- 9

*) Housing of Multifocus Rangefinder.
- 10

Extra wide and sturdy U-shaped lens standard designed for large long focus and high speed lenses.
- 11

Geared rising front adjustment.
- 12

Three-position bed strut for normal, or 15° and 30° drop.
- 13

*) Interchangeable cam for rangefinder coupling.
- 14

Release for upper track — used with wide-angle lenses, or for triple extension of track.
- 15

Locking lever for lateral shift of lens standard, with zero click stop.
- 16

Cable release with two-pin socket for attachment to release shoes on bed or camera body.
- 17

Spring-tensioned pull out grips for lens standard.
- 18

Rack and pinion focusing knobs (right and left).
- 19

Track locking lever.
- 20

Release for full extension and retraction of upper track.
- 21

Middle track with focusing rack.
- 22

4 x 5" area with outline of 2 1/4 x 3 1/4" area when using Rollex 120 roll film adapter.
- 23

Revolving lens mount for vertical or horizontal adjustment of Multifocus viewfinder.
- 24

Eyelets (right and left) for neck strap.
- 25

Socket (right and left) for mounting frame finder.
- 26

Knob to release lens board frame for forward or backward tilt through horizontal axis of lens (15° maximum each way).
- 27

Quick change lens board locking bar.
- 28

Locking knob for tilt.
- 29

Tilting frame with lens mounted on lens board with labyrinth light trap.
- 30

Lens board retaining brackets.
- 31

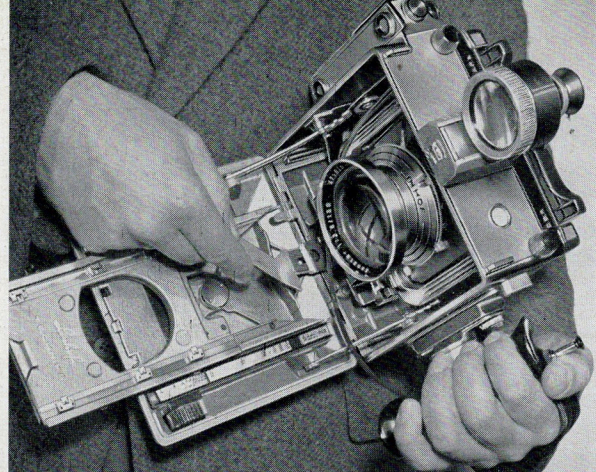
*) Grooved shoe for rangefinder coupling cams.
- 32

Release lever for front swings through the vertical axis of the lens (15° right or left).
- 33

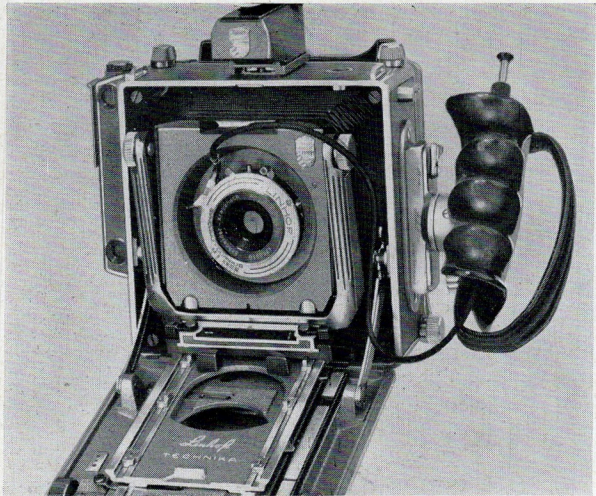
Adjustable flip-up infinity stops (right and left) for all focal lengths supplied.
- 34

Upper track.
- 35

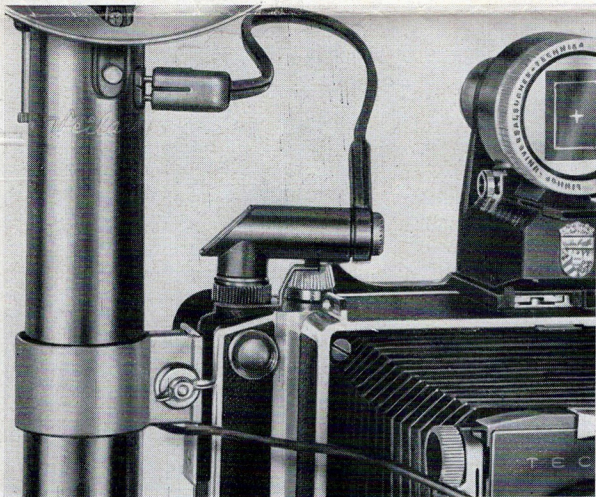
Finger grip for pulling out upper track.



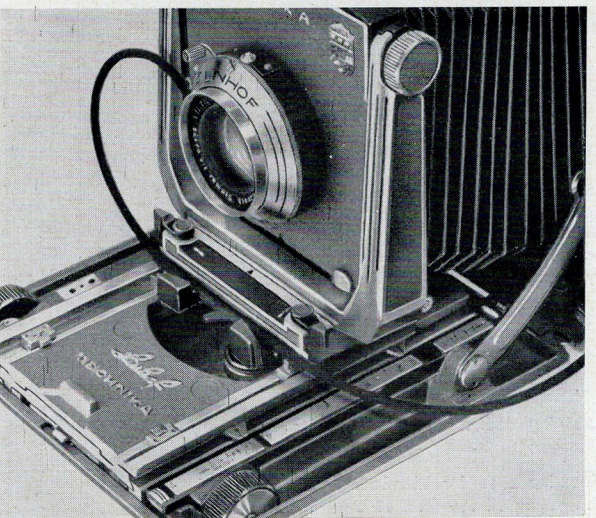
CHANGING THE CAM. The grooved tongue of the rangefinder cam (13) permits easy, one-hand insertion of the cam into the cam shoe (31). With the upper track locked forward (as shown above) the cam is lifted slightly, and pulled out by the right hand; when cam is inserted, slide it into the shoe as far as it will go to stop. (The Super Technika IV may be closed when no cam is in the shoe).



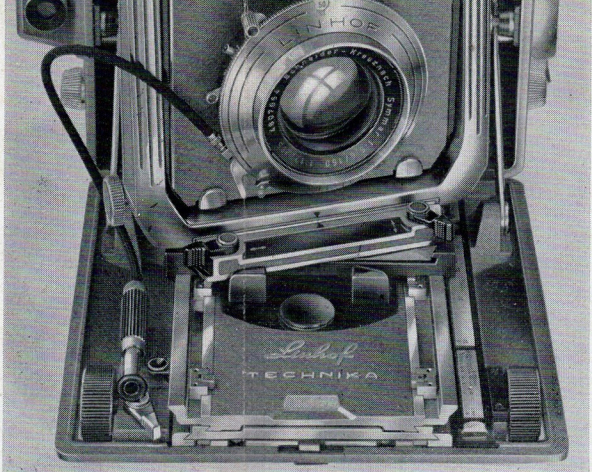
FOR USE WITH 90 mm WIDE-ANGLE LENS. After inserting 90 mm cam (see above) pull out lens standard to (black) infinity stops; drop bed to second notches of struts by pushing down on struts — as if to close camera — and letting down bed. Dropping the bed prevents its front edge from cutting into the picture area. Loosen locking knob (28) and, while pressing it, knob (26) tilt lens board frame all the way back; lock knob (28). To bring lens to correct focusing position, press down track release (14) and slide back the upper track until it clicks into secondary locked position.



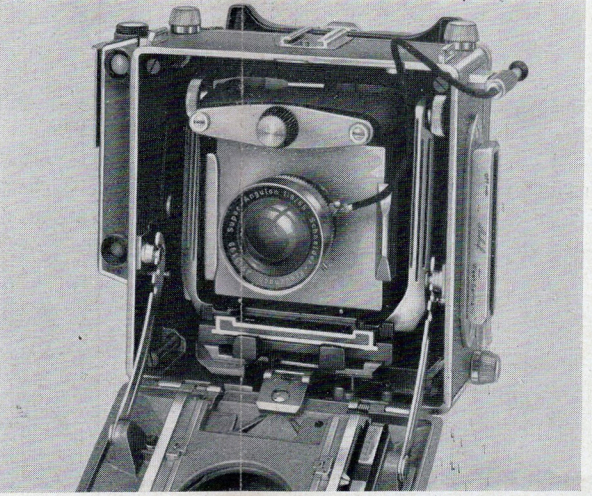
THE KALART FOCUSPOT ATTACHMENT is used for focusing in the dark with the Multifocus Rangefinder at close and middle distances. The Focuspot is attached to the rangefinder housing after removal of the milled dust cover (6), and connected to a flash unit provided with 4 or 6 Volt outlet. For correct focus the two light spots projected on the subject through the rangefinder are brought into coincidence by turning the focusing knob (18) of the Super Technika.



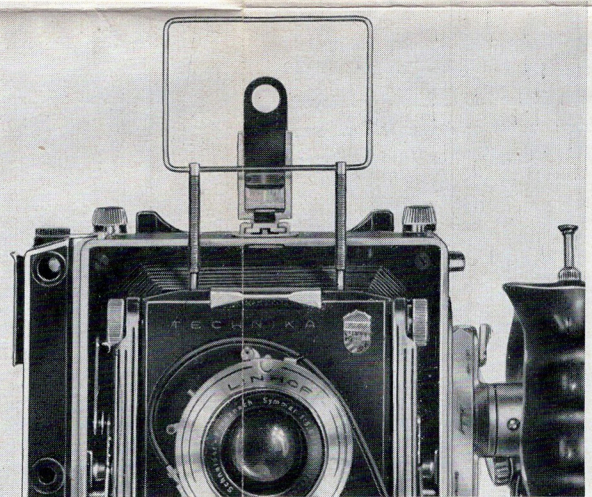
DISTANCE SCALES are calibrated and engraved specifically for each lens. Several scales — for different lenses — may be mounted on the same removable scale stage. Additional scale stages are supplied if the distance scales for all lenses fitted to the camera cannot be mounted on a single stage. The scale stage can be interchanged by sliding it off its track to the front of the camera bed. A spring lock assures correct seating when a stage is inserted on the stage track. A **Distance Indicator** for each lens is mounted on the camera track adjoining the scale stage.



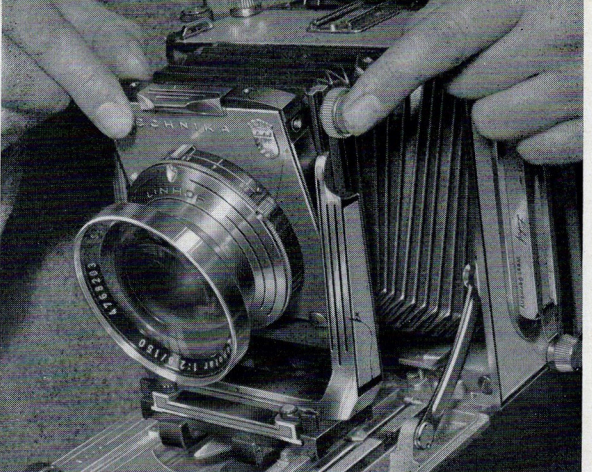
FRONT SWINGS AND SHIFTS may be used separately or in combination through control levers on the base of the lens standard. The control lever (15) for lateral shift is marked with lateral arrows (above); the lever (32) controls side swings through the vertical lens axis, by curved arrows. After loosening the appropriate lever, the desired shift or swing movement may be set; the lateral shift has click stop at zero position (marked red triangles!); the swing movement also clicks into zero position when the release lever (32) is turned OUT (parallel to lens standard). The lateral shift position can be fixed by locking lever (15), while the swing movement requires no lock.



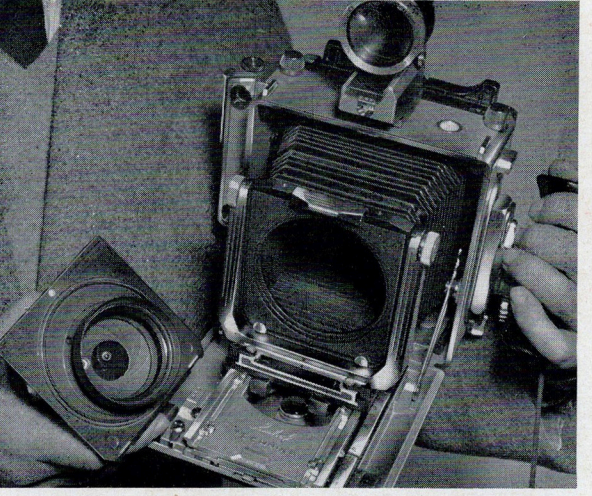
EXTREME WIDE-ANGLE LENSES (65 mm) may be used in conjunction with an accessory Wide-Angle Focusing Device which can be attached to the lens standard in place of a regular lens board. To attach, pull out lens standard half-way on upper track; remove regular lens with board, and attach Focusing Device. Slide lens standard all the way into camera body. Remove any cam (13) from shoe (31), otherwise the cam and the rangefinder linkage may be damaged. Drop camera bed to third notch of struts. Focus on ground glass by micrometer screw above lens.



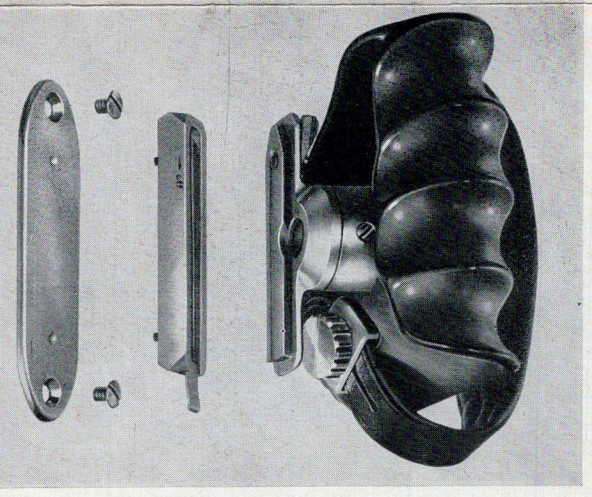
THE WIRE FRAME FINDER is recommended especially for action shots. It is inserted in the socket (25) atop the lens board frame; the peep-sight is slid into the special mounting shoe on the camera body, and folded up. Parallax correction is provided by raising the peep-sight and referring to the parallax scale. For vertical shots with the frame finder, the entire camera is turned 90°.



FRONT TILT THROUGH HORIZONTAL LENS AXIS. Loosen locking knob (28). When the opposite release knob (26) is pressed in, the lens board frame may be tilted forward or backward to a maximum of 15° in either direction, and fixed at any angle by tightening knob (28). Click stop for zero position.



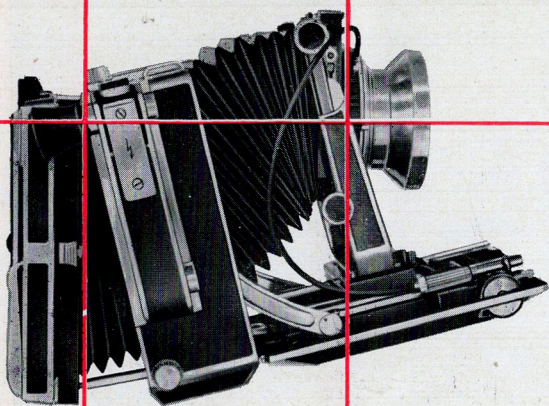
INTERCHANGE OF LENSES is a matter of seconds. Pull out lens standard half-way on upper track; raise locking bar (27) and lift lens with lens board up and away from retaining brackets (30). To insert lens, seat lower edge of lens board on brackets; press upper edge of lens board against locking bar until it snaps into position.



THE LINHOF ANATOMICAL GRIP for all Super Technika and Technika cameras is molded to fit the palm and fingers snugly; it may be adjusted for most comfortable camera hold. The grip fits into the hand comfortably and naturally, and an adjustable leather strap fits around the back of the hand to prevent sliding-off even when the fingers are extended. The built-in cable release assures vibration-free shutter release. The Anatomical Grip is easily detached after releasing a safety catch. Truly, an outstanding improvement for hand-held shooting.

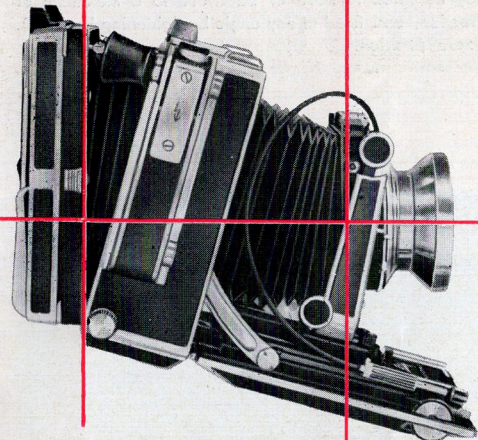


Rangefinder focusing with the Kalart Focuspot and viewing can be carried out separately or together whereby the viewfinder becomes a combined range-viewfinder by observing the merging of the two light beams projected by the Focuspot in the viewfinder image.



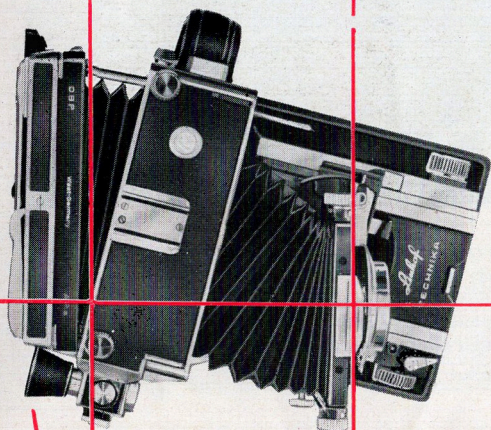
K

The normal limit of the rising front can be extended, if necessary in extreme situations, by the following camera adjustments: After the lens has been racked up to the limit, it is tilted forward all the way; while the camera back is pulled out all the way at the bottom. This adjustment establishes the parallel between lens and film plane, while the lens has been raised farther above the optical axis. Critical adjustment of the necessary rise may be achieved with the rack and pinion adjusting knob (II). This extreme rise is practicable only with a lens having a large angular field.



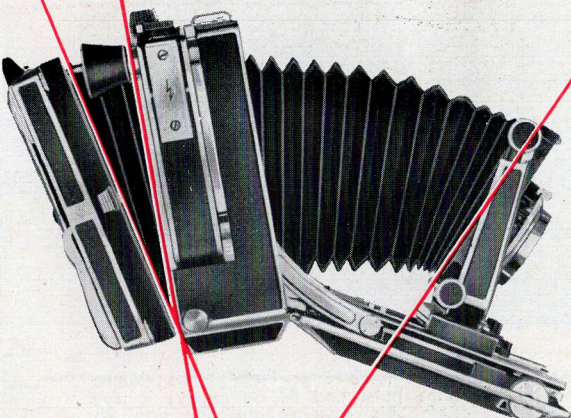
L

The optical axis is lowered in the following manner to obtain the effect of a falling front: Lens and camera back are tilted back all the way; this adjustment establishes the parallel between lens and film plane while lowering the optical axis. If the resulting adjustment should prove to be too extreme, it may be modified by critical adjustment of the rack and pinion rising movement (II).



M

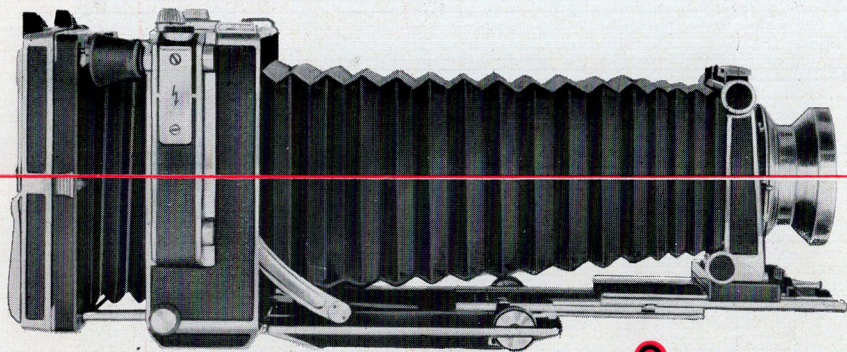
In cases where the lowering of the lens axis just described is insufficient, the following adjustment will result in extreme lowering: The camera is turned 90° on the tripod head, so that the camera handle is located at the top. In this camera position, the regular lateral shifts assume the role of a rising and falling front. To obtain extreme lowering of the horizontal axis, the lens standard and the camera back may be tilted back all the way. Critical adjustment is achieved by shifting the lens standard up or down. This extreme adjustment is practicable only with a lens having a large angular field.



60°

N

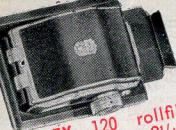
Each adjustment of the various camera elements is limited to a 15° angle. Equal adjustments cancel out (e. g. lens tilted forward, camera back tilted forward). Opposite adjustments may add up to a total of 60°: Forward tilt of lens (15°), bed dropped to second notch (15°), and third notch (15°), backward tilt of camera back (15°). Total: 60°.



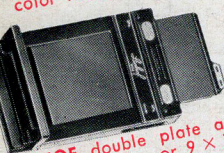
O

In Macro-Photography every additional inch may count! Although the Super Technika already has triple extension, further extension can be gained by pulling out the camera back.

THE MOST VERSATILE CAMERA EVER PRODUCED!



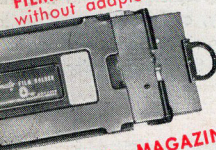
ROLLEX 120 rollfilm holder size $2\frac{1}{4} \times 3\frac{1}{4}$ in. or $2\frac{1}{4} \times 2\frac{1}{4}$ in. Quick interchange from monochrome to color material of any description.



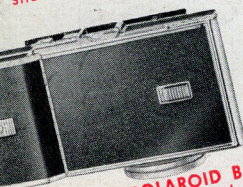
LINHOF double plate and cutfilm holder 4×5 in. or 9×12 cm with ejector for either cutfilm or glass plates.



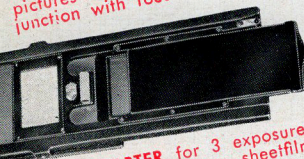
FILMPACK ADAPTER 9×12 cm used in conjunction with adapter frame. **FILMPACK ADAPTER** 4×5 in. used without adapter frame.



GRAFATIC MAGAZINE for 6 sheetfilms 4×5 in.



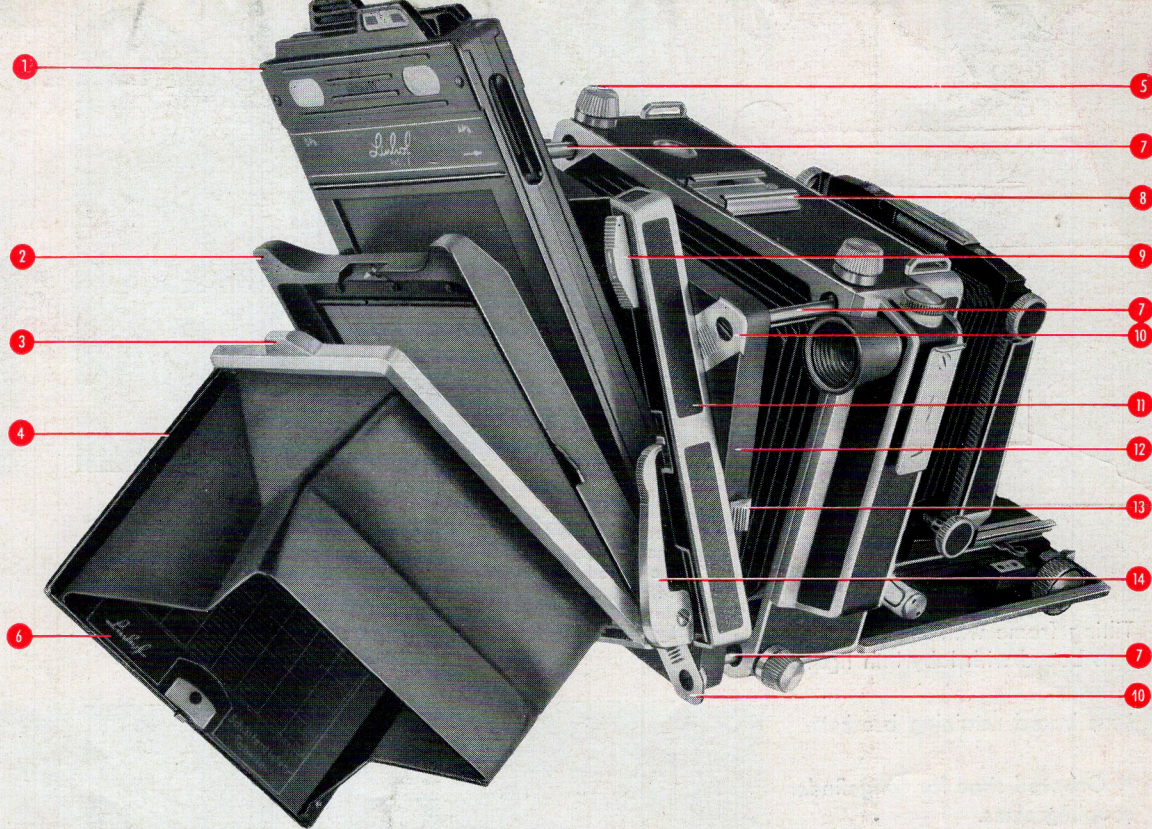
$3\frac{1}{4} \times 4\frac{1}{4}$ in. **POLAROID BACK** for pictures-in-a-minute. Used in conjunction with focus compensator.



POLICE ADAPTER for 3 exposures 4×6 cm on plates or sheetfilm. 6×13 cm.



ACCESSORY FOCAL PLANE SHUTTER BACK (self-capping); $1/30-1/1000$ sec. and B. Used in conjunction with focus compensator.



- 1 LINHOF double cut film/plate holder 4×5 " with ejector
- 2 Detachable ground glass spring back
- 3 Detachable hinged focusing hood frame; can be folded back for use of magnifier on ground glass, or detached, by pressing frame against right hinge.
- 4 Focusing hood.
- 5 Captive locking knob for swing back (on four corners)
- 6 Depth of field table in focusing hood
- 7 Retaining rod for swinging, tilting, extension back (on 4 corners)
- 8 Mounting shoe for Viewfinder.
- 9 Slide locks (right and left) for attaching ROLLEX roll film adapters $2\frac{1}{4} \times 3\frac{1}{4}$ or other attachments: remove ground glass back (see 14 below), place ROLLEX or other attachment on revolving back frame and push slide locks down.
- 10 Lock tongues (one at each corner) for detaching the entire back. Slide out tongues and lift the back off. In its place, you may install the accessory focal plane shutter, or the 4×5 " to $2\frac{1}{4} \times 3\frac{1}{4}$ " reducing back.
- 11 Detachable revolving back with click stops at 90° intervals for horizontal or vertical.
- 12 Swinging and tilting back frame.
- 13 Snap locks (right and left) for locking back frame to camera body. Before pulling out back frame, loosen locking knobs (5) on all four corners; press both snap locks (13) to release back.
- 14 Spring-tensioned hinge arms for ground glass spring back. To detach ground glass back, hold down both arms while sliding frame up. To insert frame, hold down both arms and slide frame down.

Linhof

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