User Manual
Thank You!

Congratulations on your purchase of this high-quality Sinar product. It was carefully manufactured by using top quality material and thoroughly tested for performance and reliability. We are very pleased you have chosen Sinar and thank you for your confidence.

Sinar combines highest demands on technology, materials, design and ease of operation. This equally applies to professional cameras, electronics and accessories.

Before use, please read the operating instructions carefully to correctly operate the Sinar camera and fully benefit from all the possibilities and advantages.
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1. Scope of Delivery
2. General Information

Scope of Delivery p3 MF-L

Item-No. 491.83.030
1x Case
1x Sinar p3 MF-L (view camera p3 incl. Adaptation Leica S)
1x User Manual

Scope of Delivery Kit

Item-No. 497.13.050/497.13.060
1x Mounting Bracket
1x Bellows with Leica S Bayonet
1x User Manual

General Information

The Sinar p MF-L was developed especially for photographers who wish to benefit from the unique characteristics of a Sinar view camera while using their Leica S high-end medium format camera. Exact control of perspective and selective sharpness, the most important creative tools in photography, are set and evaluated precisely on a view camera – all these advantages are now available for Leica S users. In addition, this solution offers the benefit of a distinct increase in quality by using high-resolution Sinaron lenses designed specifically for digital imaging.

For focal lengths below 90mm it is not possible to focus on infinity due to the sensor position of the Leica S. So the minimum applicable focal length is 90 mm.

Sinar Photography AG will not be liable for any damage on subjects to be captured, especially those resulting from dropping.
To benefit from the creative potential of the Sinar p3 MF-L view camera the following operating elements are at your disposal:

<table>
<thead>
<tr>
<th>Operating Elements</th>
<th>Security Advice: Please check the secure fixation of the lever (7) before you start fine adjustments.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinar p MF-L</td>
<td></td>
</tr>
</tbody>
</table>

### Lever for Coarse Focusing
Coarse focusing is accomplished by moving the standards into the right position before you start fine adjustments with the fine focusing turning knob (2).

### Fine focus gear with depth of field scale
Turning knob to fine focus the selected image section.

### Micro meter drive for vertical shifting
Turning wheel to vertically adjust the rear standard.

### Micro meter drive for horizontal shifting
Turning wheel to horizontally adjust the rear standard.

### Micro meter drive to tilt the horizontal axis H
Turning knob to tilt the front standard.

### Micro meter drive to swing the vertical axis V
Turning knob to swing the front standard.

### Clamping lever for coarse tilt on the horizontal axis H
Vertical alignment of the standards with tilted camera. Furthermore for coarse tilt so that the full range of the fine adjustments can be used when defining the plane of sharpness.
With the Rail Clamp 411.21.000 the Sinar view camera p MF-L is mounted either on the Sinar Pan Tilt Head 516.61.000 or directly on a tripod.

1. Turn the clamping lever (1) to the right (release) – Fit camera on Pan Tilt Head or tripod and tighten the tripod screw (2) – Turn the clamping lever (1) to the left (tighten)

2. Slack off the twist grip (3) a few turns to shift the camera along the rail for balancing or swivelling. Slack off by a few turns more to remove the camera.
4. Camera Set-up

Mounting the camera 2

Assemble the view camera as follows:

1. Position the basic rail in the middle of the rail clamp and mount the rail clamp onto the tripod. Remove both rail caps.

2. Move the front standard on the basic rail.

3. Attach the rail cap.

4. Move the bearer on the basic rail.
4. Camera Set-up

**Mounting the camera 3**

5. Attach the second rail cap.
6. Attach the mounting bracket onto the bearer.
7. Rotate the mounting bracket in vertical position to mount the Leica S.
8. Attach the Leica S with the camera screw.
4. Camera Set-up

**Mounting the camera**

9. Rotate the camera to horizontal position to easier mount the bellows.

10. Attach the bellows to the Leica S medium format camera.

11. Latch the bellows to the front standard.

12. Mount the desired professional lens.
5. Mounting Lenses

The Sinar p MF-L is supplied without lens. Sinar Photography AG offers a wide range of Sinaron digital lenses with different focal length. In addition lenses from other suppliers can be used with Sinar p MF-L. For such lenses Sinar offers the respective lens boards and the assembling.

The front coupling frame of the Sinar p MF-L is equipped with a snap latch, so no tools are required for the attachment of the lens. The lens board is placed on the lower edge of the frame and then latched in place at the upper edge of the coupling frame. Sinar recommends testing the secure placement by checking the frame manually.

1. Detaching the bellows
   The bellows is detached by pressing the button on the top right side of the coupling frame.

2. Detaching the lens
   The lens is detached by pressing the button (2) on the top left side of the coupling frame. Slightly pull the release lock (3) at the same time and remove the lens.

3. Release Lock for Lenses
   This release lock serves as lens board holder to secure the lens. Before attaching the lens the release lock must be slightly pulled.

4. Snap Lock
6. The Lens Shade

Attaching the lens shade

The following accessories are required for attaching the Sinar Lens Shade:

- 547.81.xxx Adapter Ring
- 493.23.041 Lens Shade p3 / arTec / IanTec

To attach the Sinar Lens Shade please proceed as follows:

1. Equip your lens with the corresponding lens adapter ring.
2. Fix the lens shade to the adapter ring by means of fastening the screw.
7. Attaching the Bellows Lens Hood

To attach the Sinar bellows lens hood please proceed as follows:

1. Equip your lens with the corresponding Lens Adapter Ring.
2. Attach the Bellows / Filter Holder 100 on the adapter ring and fix the screw.
3. Insert the Tapered Bellows from the top into the Bellows / Filter Holder 100.
4. Attach the Bellows Clip to the bottom right corner of the Tapered Bellows.
5. Fix the Rod Holder 100 on the front standard.
6. Insert the Joint Rod 2 into the notch of the Rod Holder 100 and fix the screw on the Joint Rod.
7. Attaching the Bellows Lens Hood

7. Insert the other side of the Joint Rod 2 into the notch of the Bellows Clip. Position the Bellows Lens Hood avoiding vignetting and fix the screws.

Fully assembled Bellows Lens Hood on the Sinar p MF-L.
### 8. Change from Portrait to Landscape

<table>
<thead>
<tr>
<th>Portrait / Landscape</th>
<th>Change the format from portrait to landscape as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Release the stopping lever (1).</td>
</tr>
<tr>
<td></td>
<td>The camera can be rotated and then fixed in any position. The bellows provides a revolving bayonet and has not to be removed for camera position change.</td>
</tr>
</tbody>
</table>

1. **Stopping Lever**
   
   Press the lever downwards for release.
## 9. The Plane of Sharpness

<table>
<thead>
<tr>
<th>The Rear Standard</th>
<th>Always establish the plane of maximum sharpness before stopping down. Displacement of the Rear Standard influences the plane of sharpness and the perspective.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Front Standard</td>
<td>Displacement of the Front Standard influences only the plane of sharpness.</td>
</tr>
</tbody>
</table>

![Diagram of camera setup with labeled parts A and B]

- **A** Rear Standard
- **B** Front Standard
10. Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical shift range</td>
<td>4 cm up</td>
</tr>
<tr>
<td></td>
<td>2 cm down</td>
</tr>
<tr>
<td>Horizontal shift range</td>
<td>3 cm to the left</td>
</tr>
<tr>
<td></td>
<td>5 cm to the right</td>
</tr>
<tr>
<td>Coarse tilt</td>
<td>± 45°</td>
</tr>
<tr>
<td>Fine tilt</td>
<td>± 19°</td>
</tr>
<tr>
<td>Swings</td>
<td>± 50°</td>
</tr>
<tr>
<td>Fine focus</td>
<td>5 cm</td>
</tr>
<tr>
<td>Dimension carrier frame</td>
<td>100 mm</td>
</tr>
<tr>
<td>Tripod adaptation</td>
<td>3/8&quot; thread on rail clamp</td>
</tr>
<tr>
<td>Weight</td>
<td>4.7 kg</td>
</tr>
<tr>
<td>Lenses</td>
<td>Sinaron, CPL und eShutter; Focal Length 90 to 180 mm</td>
</tr>
</tbody>
</table>

### Image Sensor/Lens Centering

To position the image sensor of the Leica S in the optical axis please proceed as follows:

<table>
<thead>
<tr>
<th></th>
<th>Front Standard</th>
<th>Rear Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P2</strong></td>
<td>Vertical Shift</td>
<td>5 mm down</td>
</tr>
<tr>
<td></td>
<td>Horizontal Shift</td>
<td>26 mm to the left</td>
</tr>
<tr>
<td><strong>P3</strong></td>
<td>Vertical Shift</td>
<td>20 mm up</td>
</tr>
<tr>
<td></td>
<td>Horizontal Shift</td>
<td>0 Position</td>
</tr>
</tbody>
</table>
11. Accessories

452.16.010
Tapered Bellows 4x5/100

421.21.000
Rail Extension 6/15

493.23.041
Lens Shade

473.31.000
Bellows Clip

553.15.100
Reduction Adapter 4x5/100

472.41.000
Rod Holder 100

472.51.010
Joint Rod 2

581.01.001
Strain Relief

473.41.000
Bellows/Filter Holder 100
11. Accessories

516.61.000
Pan Tilt Head 2

475.66.020
Sinar p3 System Case

411.71.000
Geared Rail Clamp

547.81.XXX
Lens Adapter Ring
12. Sinar Core Products

Sinar p3
Sinar rePro
Sinar lanTec
Sinar arTec
Sinar eXact digital back
Sinar eShutter
Flexibility and Creativity

For more than 65 years, Sinar is the leading manufacturer of view camera systems for professional photography. Sinar stands for exquisite camera precision made in Switzerland as well as for ergonomic design and unlimited creative freedom. All relevant elements for composing the image are available, like swings and tilts or horizontal and vertical shifts. The consistently modular products include digital capture devices, digital lenses, capture software and view cameras. Sinar customers profit from solutions designed as complete imaging systems supplied and supported from a single source. This system approach makes the difference and delivers superb image quality. In-house manufacturing, expert know-how in fine mechanics and interaction with specialized suppliers meet the highest demands and ensure best possible products with excellent long-term reliability. Continuous new and further developments guarantee the integration of modern and coming technologies into the flexible Sinar product range.