Thank you for purchasing a Cambo product.

The Wide RS is a compact medium format system camera featuring lateral and vertical shift of the rear standard. The precision rear shift/rise and fall control is ideal for architecture and landscape photography. It enables the photographer the use perspective control, image displacement and high-quality panoramic stitching.

The Wide RS is a high performance camera build with the highest precision and tightest tolerances.

Key Features:

- Small size 190 x 175mm (W x H) incl. hand grips and tripod mount
- Lightweight only 1.2 kg (excl. lens)
- High grade aluminium camera body and shift plates
- High quality wooden hand grips
- Weight compensation mechanism for vertical movement
- Horizontal shift 45mm (22.5mm left/22.5mm right)
- Vertical shift 40mm (25mm / 15mm)
- Stitching possibilities (2-way / 4-way)
- Accelerated precision spindle gear drive knobs (XL) for fast movement
- Millimeter movement indicator
- Movement indicators on rear sides
- Sensible click indication at 5, 10 and 15mm
- Compatible with WDS and Wide Compact
- 2 integrated hand grips for steady holding
- Removable cable release (included)
- Removable 3/8” tripod mount (25 mm)
- 5 integrated spirit levels, visible from top or bottom
- Accessory mount for 2 point fixed accessories
- LED light (included)
- Compact soft case (included)
- Broad range of optics
- Retrofitting of user lenses offered

Optional:
- WTS tilt-swing lens panels
- Compendium with filter holder (Cambo WRS-1090)
- Viewfinders (Cambo WRS-1060, WRS-1080 or WDS-580)
- Levelling Base (Cambo WRS-333)
A. MOUNTING THE LENS PANEL
The Wide RS system is compatible with the Cambo WDS/WTS lens panels.

Please note: the image shows the WRS-1200 body which features the same mounting system as the WRS-5000.

1. Open both lens panel locks
2. Slide the bottom of the lens plate into the lens panel slot
3. Tilt the lens panel flat to the camera body
4. Lock both lens panel locks

B. MOUNTING AN INTERFACE ADAPTER
The Wide RS system is compatible with the Cambo SLW interface plates. The available interface (adapter) plates are:

<table>
<thead>
<tr>
<th>Interface plate</th>
<th>Compatible mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLW-80</td>
<td>Hasselblad®-V</td>
</tr>
<tr>
<td>SLW-81</td>
<td>Leaf® AFi, Sinar® HY6</td>
</tr>
<tr>
<td>SLW-88</td>
<td>PhaseOne®, Mamiya® 645 AFd</td>
</tr>
<tr>
<td>SLW-87</td>
<td>Contax® 645</td>
</tr>
<tr>
<td>SLW-89</td>
<td>Hasselblad®-H</td>
</tr>
</tbody>
</table>
Please note: the image shows the WRS-1200 body which features the same mounting system as the WRS-5000. All interface plates are interchangeable.

1. Open both interface adapter locks
2. Slide the bottom of the interface adapter into the interface plate slot
3. Tilt the interface adapter flat to the camera body
4. Lock both interface adapter locks

Note: the interface adapter can be mounted with or without the digital back attached. The interface adapter can be mounted 90° rotated, to change the orientation from landscape to portrait.

The interface adapter can be exchanged with the Cambo WDS-619 ground glass frame with CCD-markings. The WDS-619 frame uses the same SLW mount as the interface adapters.

C. CABLE RELEASE AND SHUTTER

Both hand grips feature a cable release socket, the cable release can be mounted to the left or right handgrip. The cable release must be attached to the release socket/lever of the mechanical shutter. All WDS/WTS lens panels feature
a Copal 0 shutter, with shutter speeds between 1/500 and 1 second, B and T. The mechanical shutter must be cocked between every exposure. WDS lens panels featuring the Schneider® or Rodenstock® electronic shutter are available on request.

D. MOUNTING THE DIGITAL BACK
Please choose the SLW interface adapter corresponding to the interface mount of your digital back. The digital back is mounted to the SLW adapter as it would to corresponding medium format camera body (Hasselblad®-V, Mamiya® AFd, Leaf® AFi, etc.). To synchronize the digital back with the mechanical/electronic shutter please use the brand specific “synchro release cable”. For further operating details please follow the instructions of the manufacturer of the digital back.

E. MOVEMENTS: SHIFT, RISE AND FALL
The Wide RS features horizontal as well as vertical (rise/fall) movement of the rear standard. These movements can be used for perspective control, image displacement and stitching of multiple exposures. This allows the user to take full advantage of the large image circle of certain lenses. Both movements shift the image plane, which allows the user to take multiple images within the same focal plane, ideal for stitching. Stitching can be used to create panoramas with the maximum viewing angle or to create higher resolution files.
The horizontal shift is operated by drive knob located at the top of the camera. From the optical center position the rear standard can be moved 22.5mm left or 22.5mm right. The vertical shift (rise/fall) is operated by drive knob which is located at the right hand side of the camera. From the optical center position the rear standard can fall 25mm (shifts the image up) or rise 15mm (shifts the image down).
Please note that above movements are the mechanically feasible movements, which do not by default reflect the optical possibilities of all lenses. Each lens has its own possibilities and limits.

F. MOVEMENTS AND SCALES
The horizontal movement can be referred at the millimeter scale at the top of the camera body (1mm scale). The vertical movement can be referred at the millimeter scale at the side of the camera body. Another way to refer the amount of shift movement is using the engraved markings on the backside of the housing (5mm scale).
G. TRIPOD MOUNTING BLOCK
The Wide RS comes with a removable tripod mounting block, which is already mounted in place. It is equipped with a 3/8” thread. The height of the mounting block allows the user to take full advantage of the 25mm vertical shift when mounted on a larger tripod. However, to minimise the size of your camera, the mounting block can be removed by loosening the two tripod mount screw...
knobs. With the mounting block removed you can use the integrated 3/8” mount in the bottom frame of the main housing.

**G2. WRS-333 LEVEL HEAD**
The optional WRS-333 level head replaces the original mount. The WRS-333 can be fine-levelled with 3 individual thumb screws, 2 for the horizon and 1 for the perpendicular setting. The camera body can be rotated 360 degrees, with at the 0 and 180 degrees position there is a indication click. Any position can be locked with the *rotation lock*. The WRS-333 features a *spigot mount* to facilitate any spigot accessory of your choice such as lens shades, flags or sun shades.

**H. ACCESSORY MOUNT, VIEWFINDER AND COMPENDIUM**
At the top of the camera body features the Cambo accessory mount. The Cambo accessory modules are mounted using a two-way fixation, which results in a accurate and stable fixation.

The available Cambo modules are:
- WRS-1060 Apple® Iphone® viewfinder holder (*Iphone® 4 and 4s*)
- WRS-1075 Module with an universal accessory shoe mount
- WRS-1080 Optical wide angle (120 degree) viewfinder (*optional masks*)
- WRS-1090 Compendium

**I. LED LIGHT MODULE**
The Wide RS system includes a removable LED light which is convenient for use in darker environments when reading the distance scale, aperture and shutter speed. The LED unit attaches to the magnet positioned under the accessory mount of the camera body.

The LED module can be set to different lighting modes. Standard the LED module is in “demonstration mode”, which means it will turn off automatically after four seconds. To change the LED module to “constant light mode” press and hold the button until the light turns off (at least 20 seconds).

Press the button to turn the light ON or OFF. Press and hold to change the brightness of the LED. The LED unit uses CR-2016 lithium batteries, to replace the batteries, the housing can be opened at the base by the key ring (note small notch in key ring hole).
J. USE OF LENS PANELS
Each lens has a defined image circle and viewing angle specified by the lens manufacturer. The indicated image circle is defined by the circle containing acceptable image quality, defined by the quality standards of the lens manufacturer. Cambo does not change these specifications. For detailed lens specifications users are referred to data provided by Rodenstock® or Schneider-Kreuznach®. The maximum image displacement, to keep the image inside the specified image circle, depends on the size of the image circle and the image sensor used.

In this example we use a digital back with a CCD size of 48x36mm. When we use a lens with a image circle of 70m, like the Rodenstock® 5,6/23HR Digaron-S, the maximum horizontal shift is 6mm (to either side) and the maximum rise or fall is 7,5mm. When we use a lens with a image circle of 90m, like the Schneider® 5,6/35 XL Apo-digitar, the maximum horizontal shift is 17mm (to either side) and the maximum rise or fall is 20mm.
K. WTS TILT-SWING LENS PANELS
The WTS panel allows an angle adjustment between +5 and -5 degrees in both swing and tilt direction for setting Scheimpflug corrections. These can be used separately as well as simultaneously, using the 2 adjustment knobs. The lens plane and CCD are parallel when the tilt (T) and swing (S) indicators are set to zero on the scale. This zero-position is reached when the bearing snaps into the lock, where the drive knobs become slightly loose by purpose. To apply tilt only use tilt knob, to apply swing only use swing knob. When needed, a combination of both can be applied.

*Note: do not force beyond the +5/-5 boundary marks.*

L. LENS CAST
Under certain circumstances there may be occurrence of lens cast, caused by the light striking the CCD under an angle due to either shifts or very short focal length. The effect may differ quite a lot from one CCD to another and is not a constant factor. This effect is acknowledged by all digital back manufacturers and each have their own software solution for this.
This instruction manual has been prepared with care. However, Cambo Fotografische Industrie BV can accept no responsibility, financial or other for any consequences arising out of the use of this material.

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