

# CAMBO

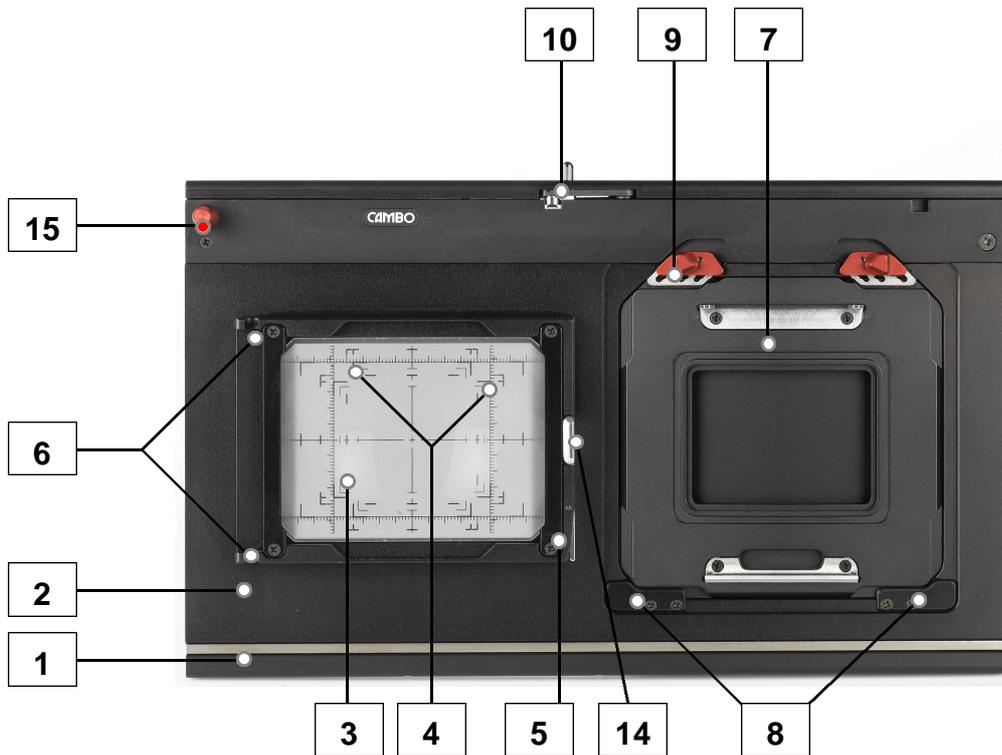
## SLIDING BACK

For use with Digital Backs



## Instruction Manual

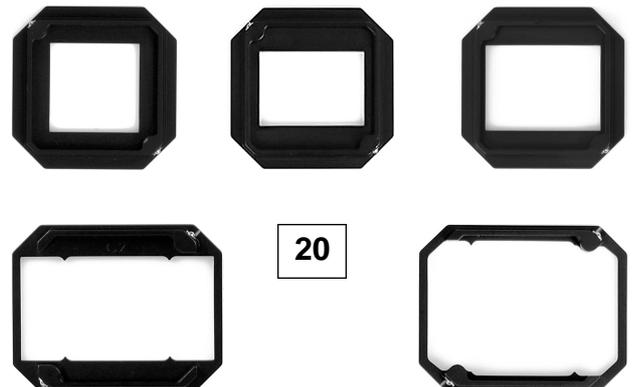
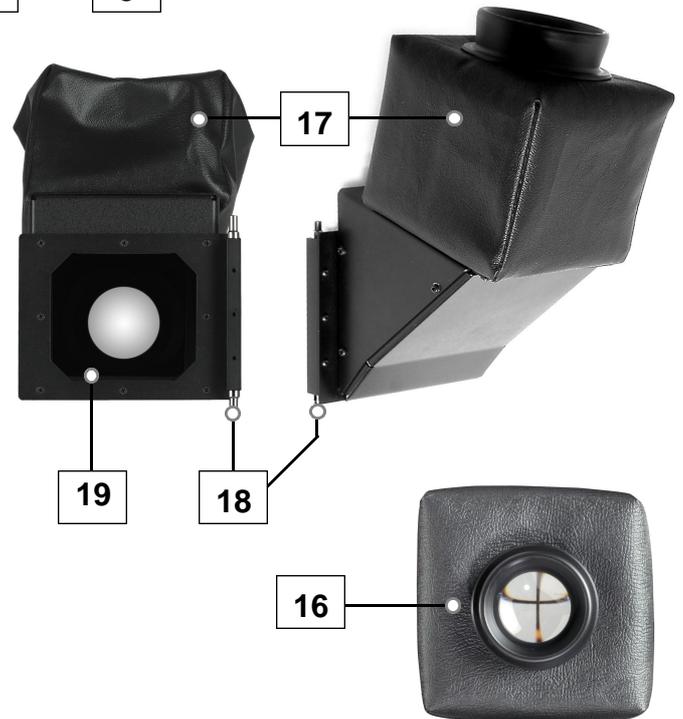
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### List of indicated items

1. Sliding back frame
2. Sliding plate
3. Ground glass
4. Printed format frames
5. Slot for viewing hood
6. Mounting holes for viewing hood
7. Adapter for digital back
8. Retaining clips for adapter
9. Locking lever for adapter
10. Position click stop switch
11. not available on this model
12. not available on this model
13. not available on this model
14. Release switch to swivelviewing hood
15. Grip for sliding movement

16. Direct viewing hood
17. Reflex viewing hood
18. Mounting pins for viewing hood
19. Cut-out for format mask
20. Optional format masks



# Instruction manual for the Cambo Sliding Back

**CSLB-69 for the Cambo Ultima 23**  
**CSLB-45 for the Cambo Ultima 45**  
**SSLB-45 for the Sinar 4x5 Camera**

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## 2. Introduction

We thank you for acquiring a Cambo sliding back CSLB. This sliding back has been specifically developed for use with digital back on a Cambo view camera. The high precision and smooth positioning, combined with a very stable construction offer you maximum performance in digital capturing. The sliding back has a compact construction to establish an optimal situation also for wide angle photography.

The adapting systems of the current digital backs are based on Hasselblad-V, Hasselblad-H, Mamiya 645AFd, Contax 645 and Leaf AFi/SinarHY6 mounts. Although this Cambo product is optimised for the use on a Cambo Ultima camera, it can also be fitted to a Cambo SC-2, 45SF and Legend-2 camera, and a SSLB version fitting to a Sinar 4x5" camera.

Limitations in use may apply when used on other platforms than the Cambo Ultima. To use your Cambo sliding back most efficiently we recommend that the following instructions are carefully read.

## 3. Installing your sliding back CSLB

### A. Mounting the sliding back to the view camera

To install the sliding back on a Cambo camera, move the slide-lock on top of the rear-standard to the right -in case of the safety lock: after engaging also the second button- Then insert the bottom of the back mounting plate behind the chrome retainer clips of the rear standard, push the back plate in place and close the slide-lock on top of the camera.

### B. Placing the optional Format Mask (20)

Depending on the type of digital back is being used (CCD-size), the appropriate mask (20) can be mounted to the mask holder plate (19) of either the direct viewing (16) or reflex viewing hood (17). Place the appropriate format mask into the opening (19) of the viewing hood. Masks can be clicked-in horizontal as well as vertical to follow the orientation of the digital back. Available masks are with frames for 37x37, 33x44 and 36x48mm, as well as for stitched area with 37x37 and 36x48mm CCD's.

**Note: The Fresnellens obstructs the positioning of an optional format mask. In that case you will need to remove the Fresnellens.**

### **C. Placing the optional Viewing Hood (16/17)**

The optional viewing hoods can be placed in position by inserting the right edge of plate in to the slot (5) near the right side of the ground glass, then while pushing pins (18) on top and bottom side of the hood together, place the viewing hood until you can release the pins (18) in the mounting holes (6) near the left side of the ground glass.

To remove the viewing hood, just push the 2 pins together and remove the hood.

With Release switch (14) can be used to swivel the viewing hood aside without removing it from the sliding back for access to use with a personal magnifying loupe.

### **D. Placing the interchangeable adapter plate (7)**

The CSLB sliding back accepts interchangeable interface plates from the SLW-series.

The same plates are being used on the WideRS system. To insert the plate, open the sliders (9) by sliding diagonally upwards, place the insert behind the retainer clips (8), put the plate (7) flat to the baseplate (2) and close the sliders (9) while sliding downwards. Each adapter can be placed in horizontal as well as vertical position, either rotated left or right. Adapters can be replaced with other adapters without need for recalibration.

## **4. How to use your sliding back CSLB**

### **A. Depth adjustment on the Ultima**

After installing your Sliding back to the camera we recommend to perform the correct depth adjustment to the camera if you are using a Cambo Ultima, to get the best possible camera movements in combination with the sliding back system.

The depth correction is shortly described in chapter 5 of this instruction manual.

### **B. Attaching your digital back**

Before you install a digital back to the sliding back, make sure the sliding back is properly installed and check if your interface plate (7) is corresponding with the interface of the digital back. If so, attach the digital back to the interface plate of the sliding back and make sure the attachment system is secure fitted and locked before you let go of the digital back.

Connect the digital back to your computer and shutter system, following instructions of the specific manufacturer of the digital back. Make sure that cables are long enough to allow for the movements of the sliding back and the view camera.

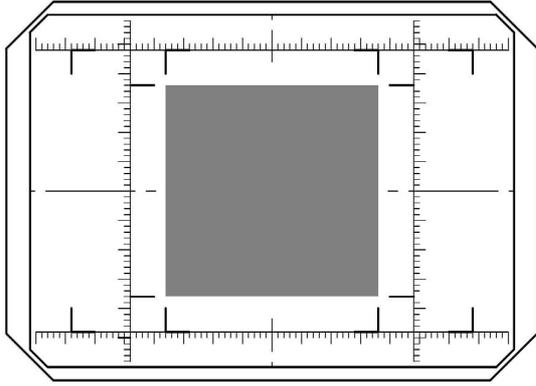
### **C. Using the sliding back for film**

The sliding back is developed for digital use, and does NOT support the use of film holders from the Medium format manufacturers. If you want to experiment with the use of film, be aware that there is not filmforwarding mechanism, nor release pins for the dark slide. Any damage caused by the use of a filmback on this sliding back is at your own risk.

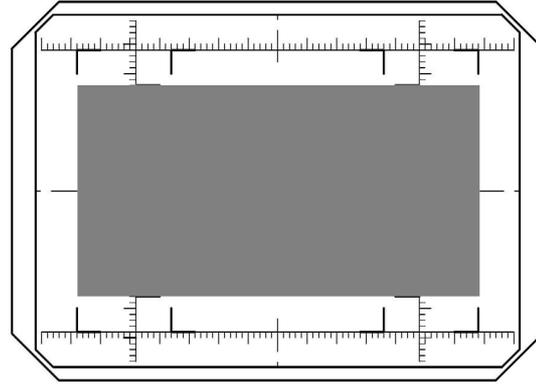
### **D. Ground glass masking**

The ground glass (3) has been printed with a number of lines and stripes to indicate the framing for 44x33mm CCD's, for 48x36mm CCD's both in horizontal and vertical format. As of version 2009 there are also corner marks for both the 56x36 and 40x55 mm CCD formats.

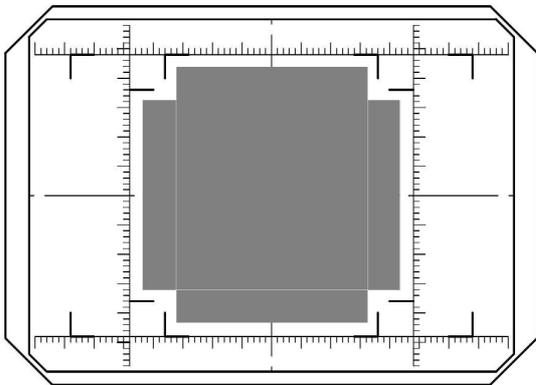
The 37x37 mm CCD format is indicated in the following field:



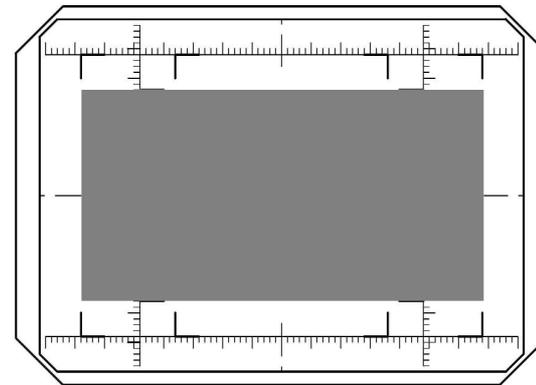
The 37x68 mm stitched format is indicated in the following field (two shots 37x37mm):



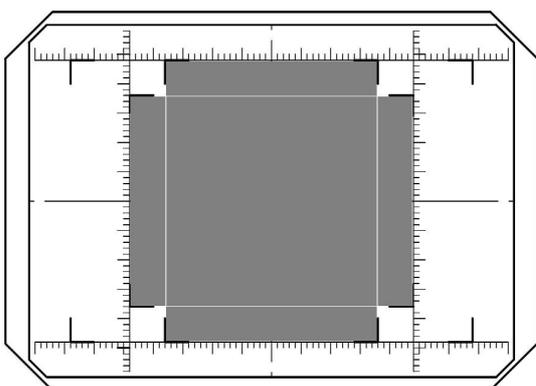
The 33x44 mm CCD format is indicated in the following field (portrait-landscape):



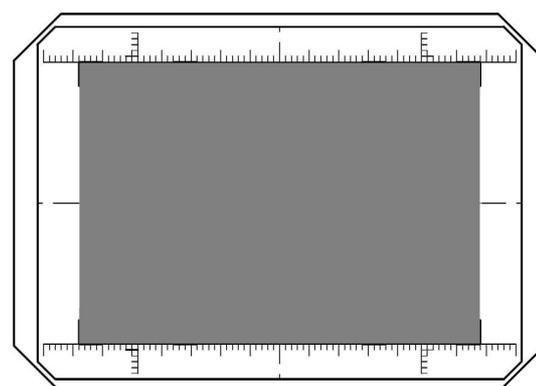
The 37x68 mm stitched format is indicated in the following field (2-shot 36x48 landscape):



The 36x48 mm CCD format is indicated in the following field (portrait-landscape):



The 48x68 mm stitched format is indicated in the following field (2-shot 36x48 portrait):



## E. Focusing

Open the shutter of the view camera and focus the image using the camera functions. The high-quality focusing screen has grid lines to indicate the center of the image. It also includes a Fresnellens for optimising light evenness.

The optional focusing hood (16/17) allow you to use the flexible loupe position for the best viewing angle. The hoods can be removed for the use of any other magnification loupe, or be swivelled aside without removing the hood.

## F. Sliding operation

The sliding plate (2) is automatically locked in place at the focusing and exposing positions to avoid any unwanted movement during focusing and exposures.

After focusing, close the shutter of the lens of the view camera first and then press the position click stop switch (10) forward to unlock the sliding plate (2). Be careful in case the camera setup is in an odd position (f.i. tilted sideways) to protect for unwanted movements. While holding the switch (10) only until the plate is out of the focusing position, slide the whole plate to the left, using the grip (15) for added support. The click switch will snap into position before exposure.

## 5. Depth correction focal plane on Cambo Ultima

The depth correction is a feature on the Cambo Ultima that makes it possible to use exact focal-plane- on-axis swing and tilts movements. This depth adjustment allows for precise alignment of the CCD plane, preventing the center of the image from moving out of focus when swings or tilts are applied. The correction is different for different models, as shown in the table below. Further instructions are found in the Cambo Ultima instruction manual.

<b>Original ground glass 4x5 or 2x3:</b>	<b>Depth correction position 0 (A)</b>
<b>Sliding back CSLB-45:</b>	<b>Depth correction position B+3</b>
<b>Sliding back CSLB-23:</b>	<b>Depth correction position C+1</b>

## 6. Specifications

Dimensions: 258 x 180 x 20 mm (excl. viewing hood)  
Weight: 1,2 kg / 2.7 Lbs. (excl. viewing hood, including adapter)

This manual has been prepared by Cambo with care, although no responsibility, financial or otherwise, is accepted for any consequences arising out of the use of this manual or this material. All specifications in this manual are subject to change without notice.

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