

Thank you for purchasing the Auloma Magnificat 4x5. Please read this instruction manual carefully before operating

## Working theory

The pinhole camera Auloma Magnificat 4x5 uses a standard 4x5" film sheet and uses the principle of pinhole photography. The camera produces images of dimensions 100x125 mm according the film holder dimension. You can use films of any sensitivity, the opening times of the shutter depend on the sensitivity of the film, in the package is provided a reference table with the approximate opening times of the shutters using a film ISO / ASA 100 in various light conditions, while to obtain more accurate shutter opening values we recommend you visit our website [www.auloma.com](http://www.auloma.com). The camera is designed to install standard 4x5" film holder.

## Caution - Safety precautions

1. Children from 0 to 14 years of age are not allowed to use the camera. The camera is composed by detachable components that could be ingested.
2. Do not use the pinhole of the camera to observe the sun or other sources of light, this could damage your eyes.
3. Keep the camera away from heat sources  $>90^{\circ}\text{C}$ , to avoid irreparable damage
4. Keep the camera away from fire to avoid damage or burning.
5. Keep the camera at least 30mm away from objects that could be damaged by the magnetic field by the neodymium magnet mounted on the shutter, such as: magnetic stripe cards or badges, hearing aids, pacemakers, mechanical watches in accordance with ISO 764, For NON ISO 764 watches, maintain a distance of at least 61mm. A safety distance cannot be determined to avoid damage to hard disks.

## Note

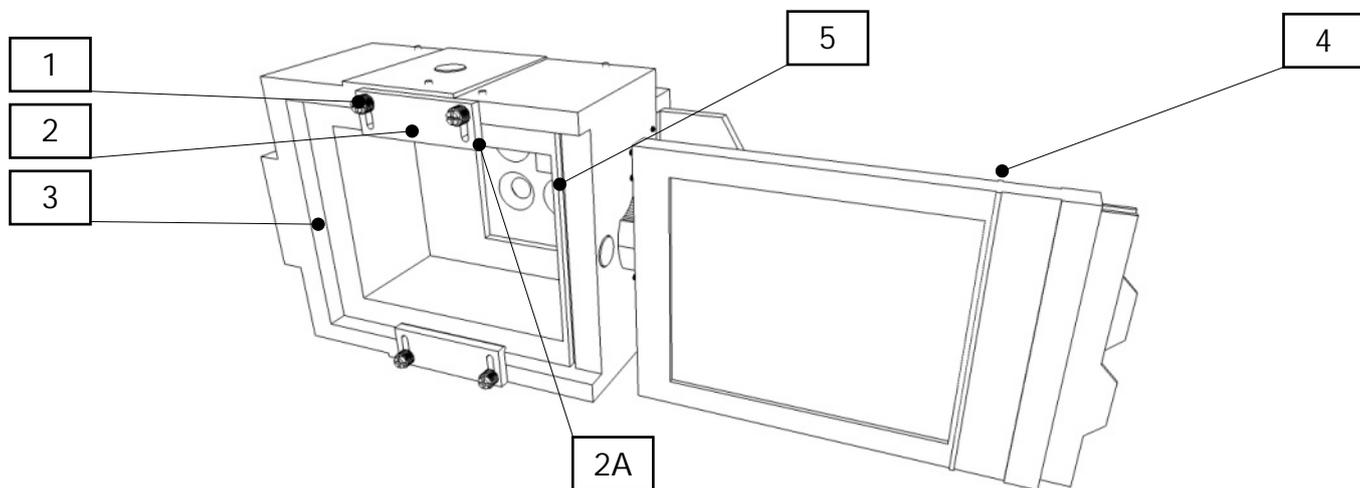
- Do not disassemble the camera
- The camera isn't waterproof. Do not immerse the camera in liquids or under running water.
- Do not use acids, corrosive substances, hydrocarbons or anything else not indicated for cleaning surfaces.

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- The camera uses a neodymium magnet that can lose part of its attraction force when heated to a temperature of  $>80^{\circ}$ .
- The camera is a handcrafted product with surfaces finished by abrasive discs. Possible scratches due to processing are a characteristic of our product and can't to be considered defects or that the product has been used.

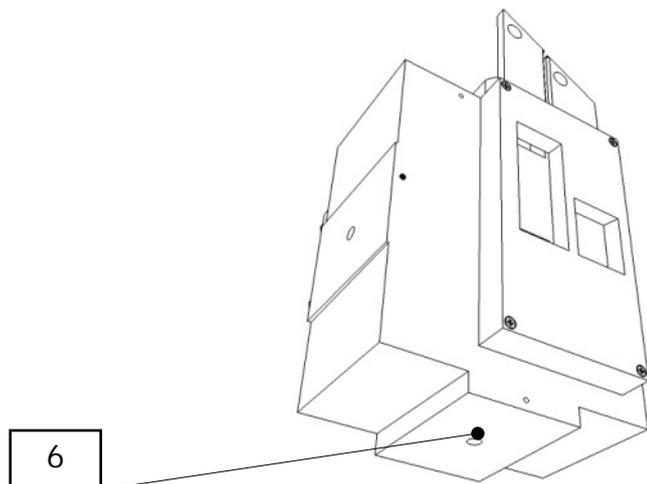
## Preparation before use

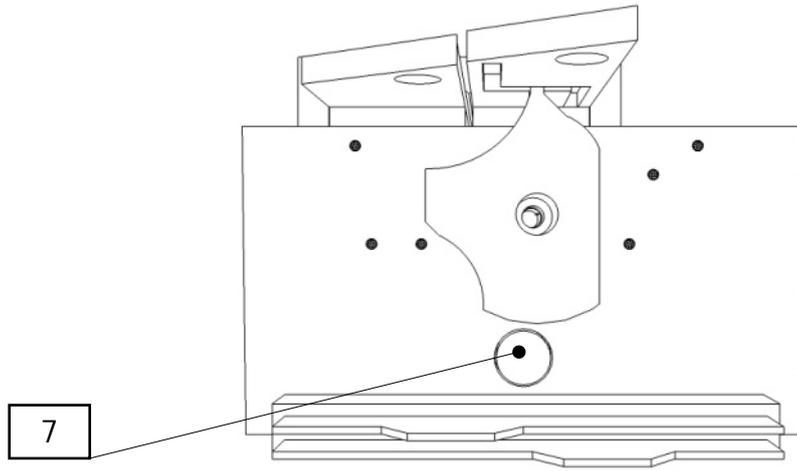
Release the four knobs 1 just enough to release both clamps 2, in this way the film holder can be insert into the seat 3, during the insertion take care that the film holder profile 4 must match the groove 5. Close the clamps 2 until the tooth 2A will be above the film holder. Tight the four knobs 1 to block the film holder.



## Executing portrait format photography

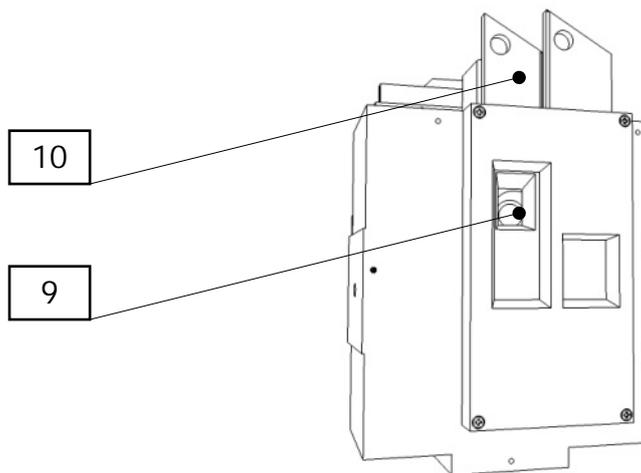
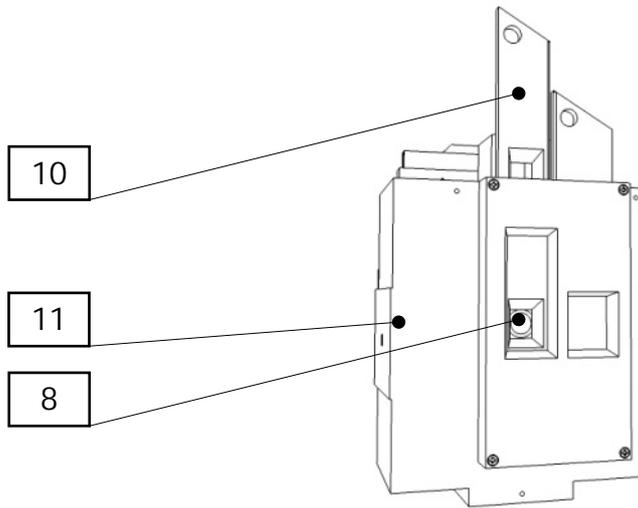
Use the threaded hole 6 to mount the camera on tripod or in alternative secure it on a flat surface, bubble level 7 will help you to understand if the camera is leveled.





The camera own two pinholes to execute portrait format photos:

- Pinhole 8 activated by shutter 10
- Pinhole 9 activated by shutter 10

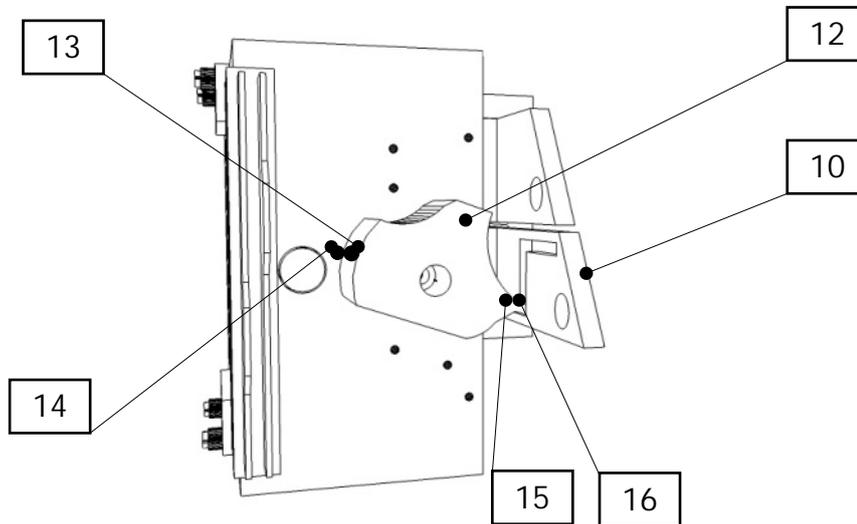


The central pinhole 8 is located at film sheet center, while the upper pinhole 9 is located on the upper side of the film sheet in the portrait setup. The camera is a wide angle device, thus the upper pinhole 9 can be used to reduce bending effect of subjects impressed on the upper side of the photo.

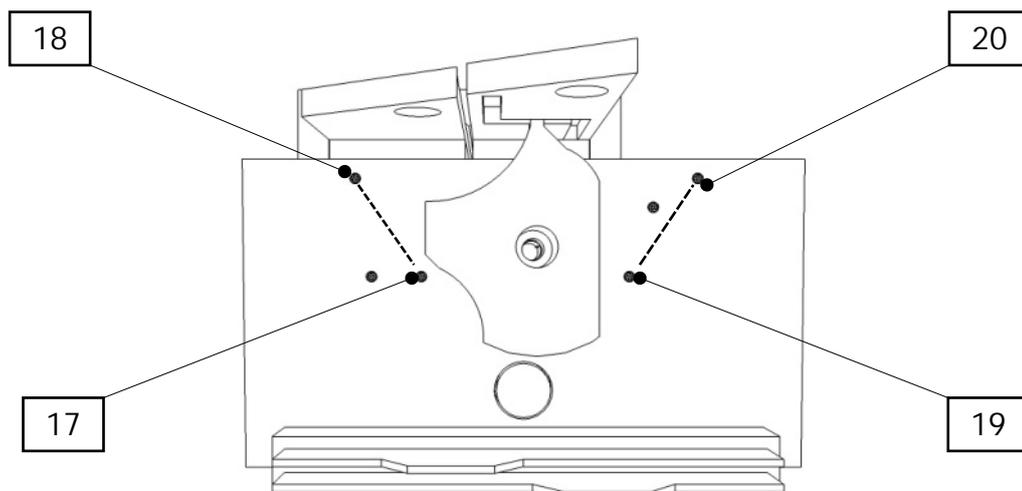
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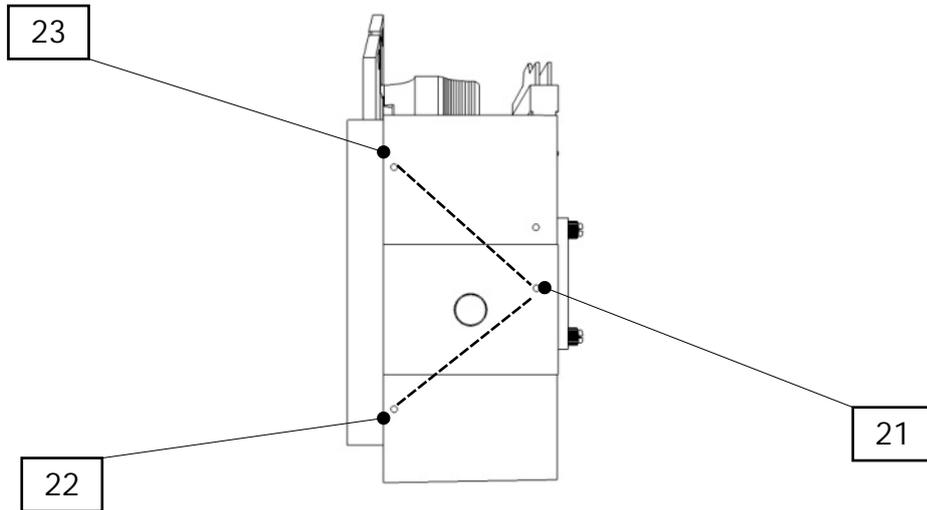
## How use the central pinhole in the portrait format photos

The central pinhole is identified by the red indicator 11, to execute photos using pinhole 8 is necessary rotate the selector 12 until red indicators 13 and 14 will be coincident. Rotate the selector 12 until its end stroke to have the tooth 15 engaged in the slot 16 inside the shutter 10.

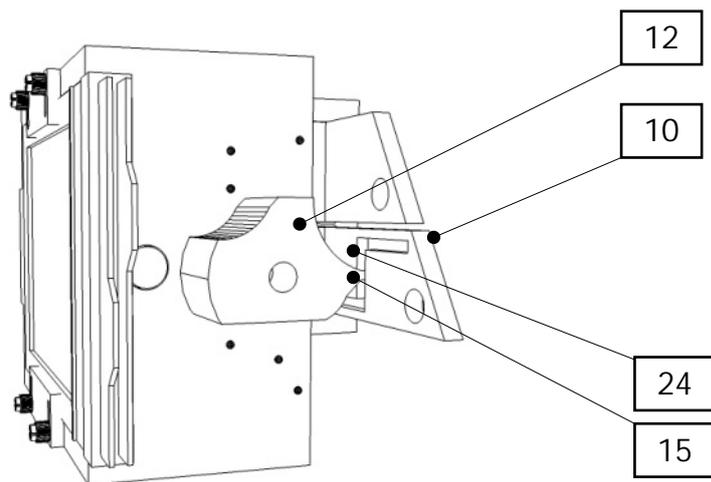


The camera now is ready to execute portrait format photos by the central pinhole. Before execute the shoot is possible verify the framing, thanks to viewfinders available on two camera side, is possible according the pinhole selected verify the framing composition. When is selected the central pinhole 8, the camera framing is determined in the smaller side of the film by the viewfinder 17-18 and 19-20 alignment, while in the bigger side of the film by the viewfinder 21-22 and 21-23 alignment.



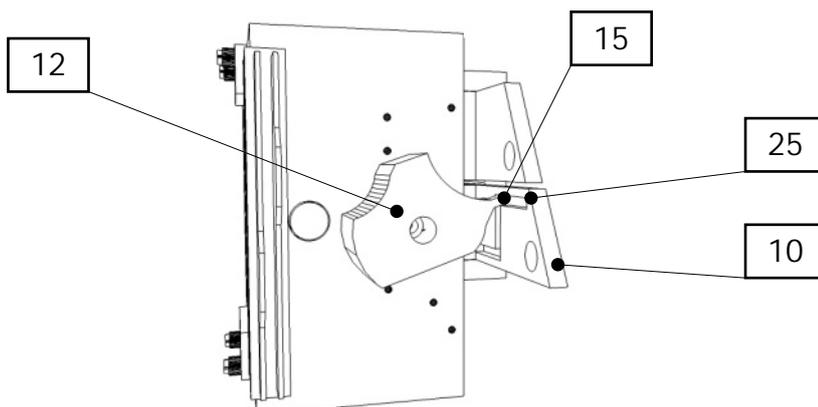


To execute the shoot pull the shutter 10 until its end stroke and leave open the pinhole for the time necessary to have a correct film exposure, thus push the shutter 10 until its end stroke to close the pinhole. To preserve your job and avoid accidental opening of pinholes 8 and 9, rotate the selector 12 to have the tooth 15 in the middle of the central slot 24 inside the shutter 10.



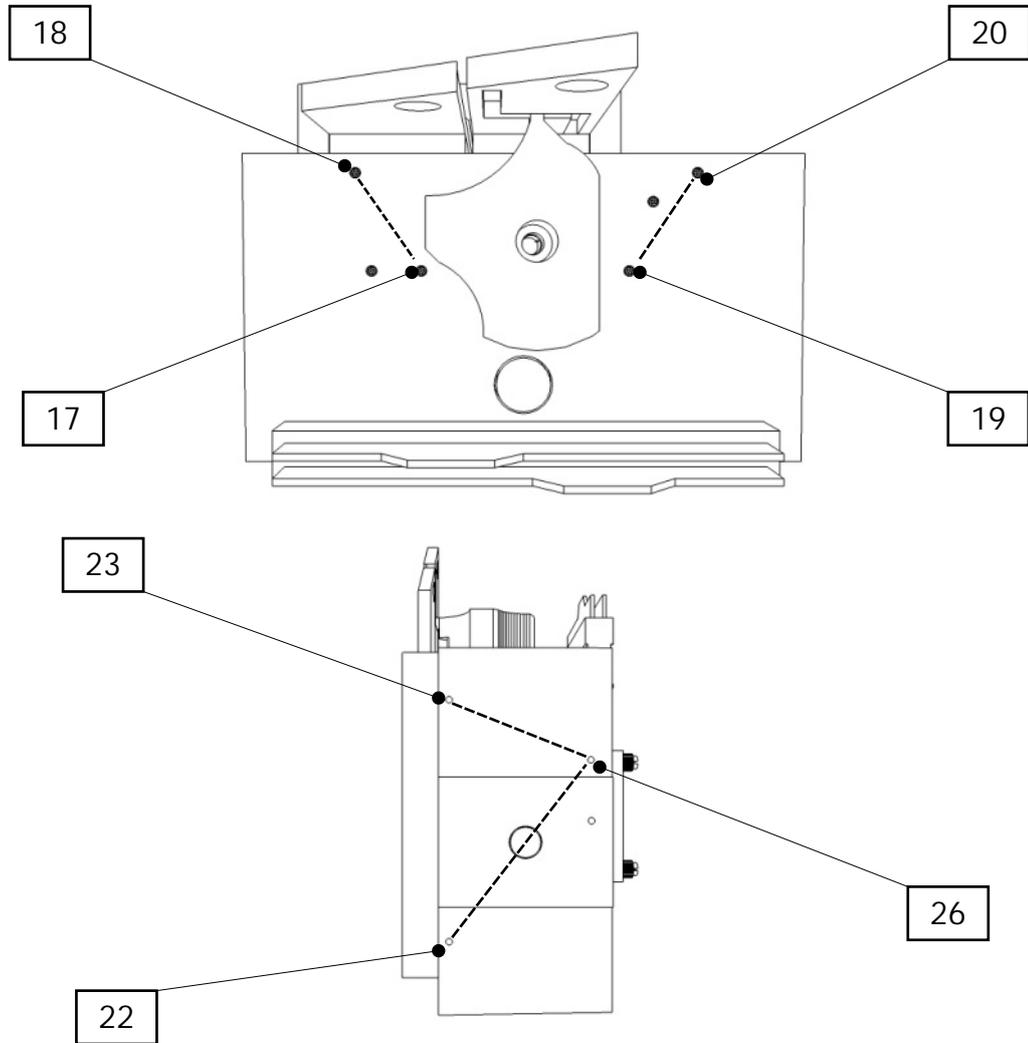
### How use the upper pinhole in the portrait format photos

To execute photos using pinhole 9 is necessary rotate the selector 12 until its end stroke to have the tooth 15 engaged in the slot 25 inside the shutter 10.

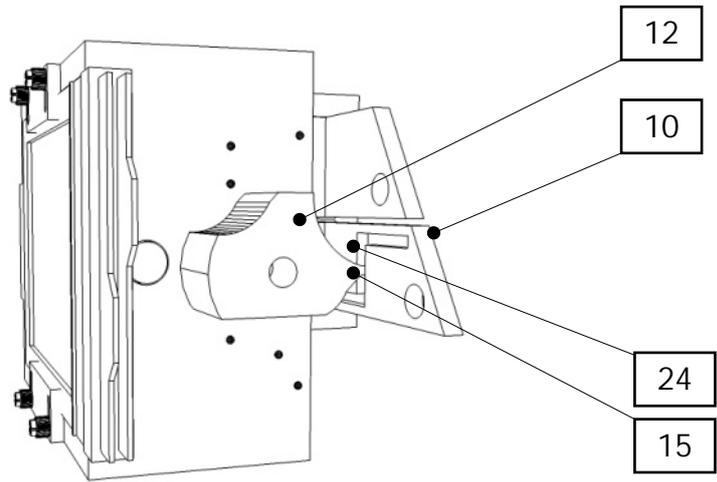


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The camera now is ready to execute portrait format photos by the upper pinhole. Before execute the shoot is possible verify the framing, thanks to viewfinders available on two camera side, is possible according the pinhole selected verify the framing composition. When is selected the upper pinhole 9, the camera framing is determined in the smaller side of the film by the viewfinder 17-18 and 19-20 alignment, while in the bigger side of the film by the viewfinder 26-22 and 26-23 alignment.

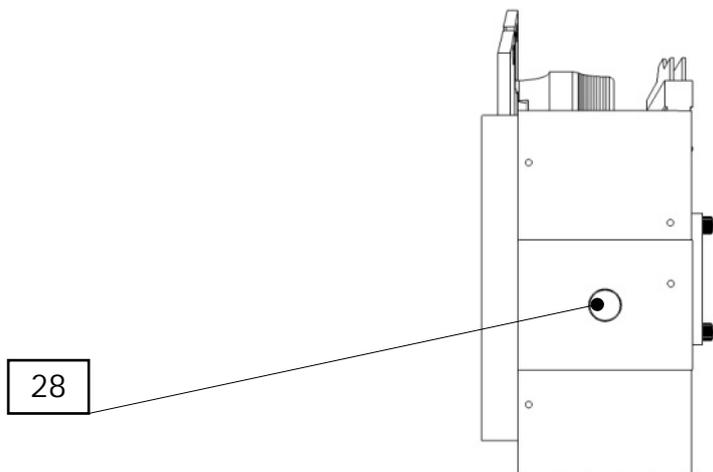
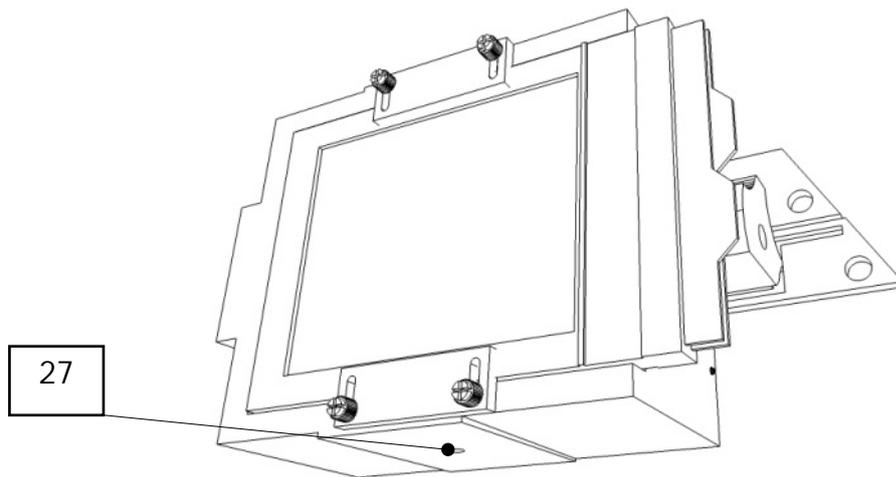


To execute the shoot push the shutter 10 until its end stroke and leave open the pinhole for the time necessary to have a correct film exposure, thus pull the shutter 10 until its end stroke to close the pinhole. To preserve your job and avoid accidental opening of pinholes 8 and 9, rotate the selector 12 to have the tooth 15 in the middle of the central slot 24 inside the shutter 10.



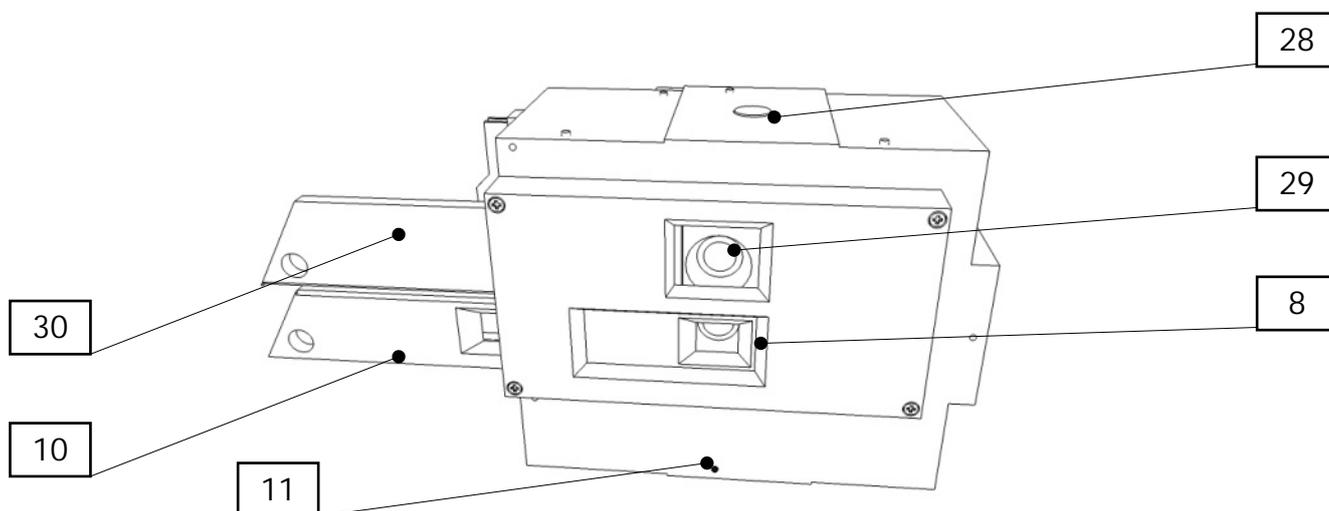
## Executing landscape format photography

Use the threaded hole 27 to mount the camera on tripod or in alternative secure it on a flat surface, bubble level 28 will help you to understand if the camera is leveled.



The camera own two pinholes to execute portrait format photos:

- Pinhole 8 activated by shutter 10
- Pinhole 29 activated by shutter 30



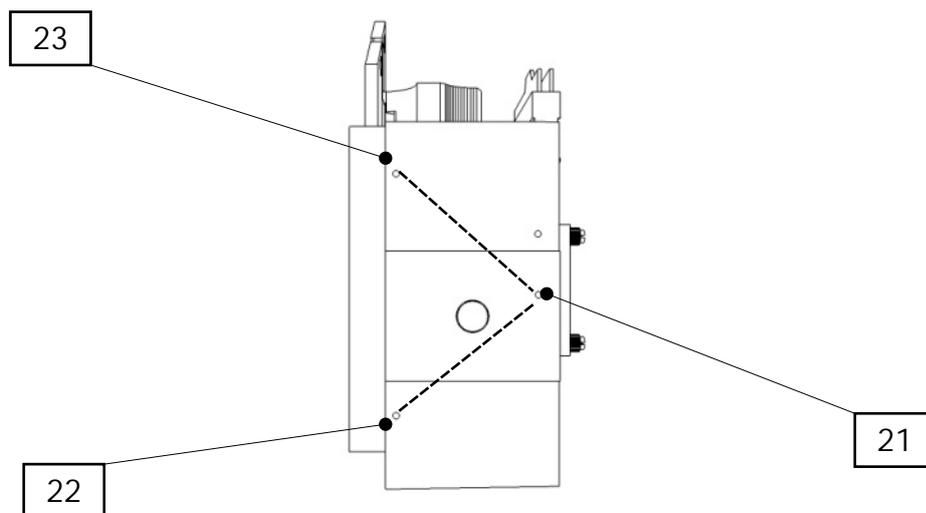
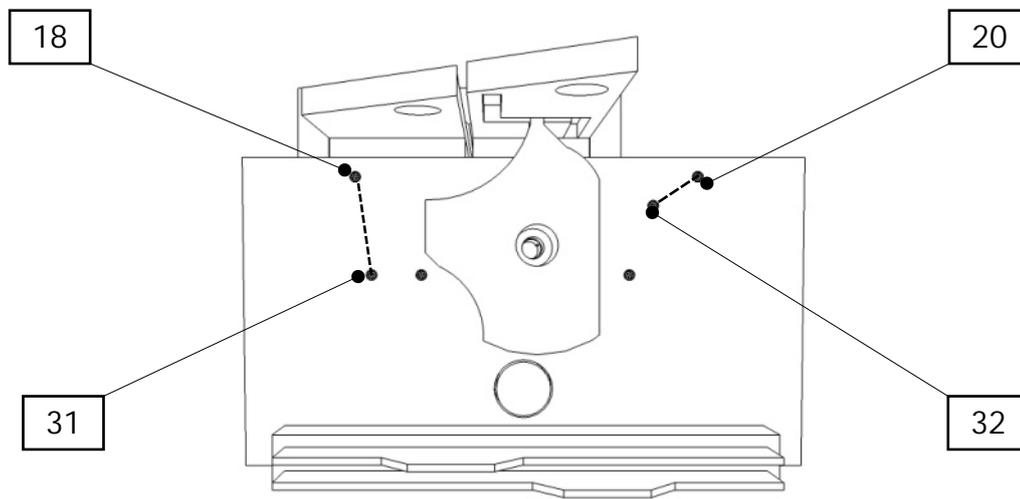
The central pinhole 8 is located at film sheet center, while the upper pinhole 29 is located on the upper side of the film sheet in the portrait setup. The camera is a wide angle device, thus the upper pinhole 29 can be used to reduce bending effect of subjects impressed on the upper side of the photo.

### How use the central pinhole in the landscape format photos

To use the central pinhole 8 to execute landscape format photos, may execute the same operations explained to execute portrait format photos with the same pinhole how is described from page 16 to page 17.

### How use the upper pinhole in the landscape format photos

To execute photos using pinhole 29 is enough pull the shutter 30 until its end stroke and leave the pinhole open for the time necessary to have a correct film exposure, thus push the shutter 30 until its end stroke to close the pinhole. Before execute the shoot is possible verify the framing, thanks to viewfinders available on two camera side, is possible according the pinhole selected verify the framing composition. When is selected the upper pinhole 29, the camera framing is determined in the smaller side of the film by the viewfinder 31-18 and 32-20 alignment, while in the bigger side of the film by the viewfinder 21-22 and 21-23 alignment.



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## Film holder storage

Release the four knobs 1 just enough to release both clamps 2 , in this way the film holder can be removed from the seat 3.

## Maintenance and cleaning

1. Before install the film holder use a pump with dust filter to clean the inside of the camera.
2. Clean the outside of the camera with a soft, clean cloth, preferably a dust-capturing cloth.
3. Clean the eco-leather coating using a dampened microfiber cloth. For persistent stains or dirt, use a specific eco-leather cleaner to apply to a soft cloth and not directly to the camera.

## Specifications

1. Overall dimensions (HxWxD): 145x250x110mm (5"45/64x9"27/32x4"21/64)
2. Weight: 1.58Kg (348lb) (Film holder excluded )

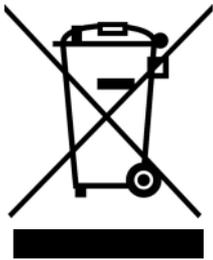
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3. Material: Iron oxid-polyurethane resin composite material
4. Focal length: 70mm (2"3/4)
5. Pinhole diameter: 0.3mm (0.111")
6. Angle of View central pinhole: 98° 33'22"
7. Film stop: f=233
8. Film size: 4x5"
9. Image size: 100mmx125mm (3"15/16x4"59/64)
10. Tripod thread type:: UNC 1/4"x20
11. Working temperature without film: min -30° C.....max 60° C
12. Storage temperature: min -40° C ..... max 70° C

## Storage

Store the camera in an environment with a temperature within the range indicated for storage. The manufacturing material makes it resistant to humid environments, however, it is recommended to store it in a dry environment to avoid possible oxidation of metal components.

## Disposal of the camera



Under no circumstance should you dispose of the camera in normal domestic waste. Dispose of the camera via an approved disposal company of your municipal waste facility. Please observe currently applicable regulations. Please contact your waste disposal center if you need any further information. The following is a list of the materials that compose the camera for ease of disposal:

- Polyurethane resin with iron oxid additive.
- Brass
- Steel
- Polyurethane eco-leather
- Neodymium

## Disposal of card exposure times



The exposure times card is made of paper material coated with plastic film. Do not release into the environment and please respect the current regulations on waste disposal.

## Disposal of instructions manual



The instruction manual enclosed in the package is printed on paper and can be disposed of at your recycling plant.

## Disposal of packaging



The packaging is made of recyclable material and can be disposed of at your recycling plant.

## Intended use

The camera Auloma Magnificat 4x5 is used for taking pictures. Do not use the camera for other purposes, Auloma Holding is not liable for damage caused by improper use of the product.

## Customer service

To ensure speedy handling of your issue, please email us for assistance  
Email: [info@auloma.com](mailto:info@auloma.com)

## Social community

Owning an Auloma pinhole camera allows you to share your experiences and emotions obtained using this product also through dedicated social platforms. If you are interested in sharing your photos with other photography enthusiasts, publish your photos on the dedicated flickr space:

<https://www.flickr.com/groups/auloma/>,

Or share your photos on the web using #auloma tag

<https://www.auloma.com>

<https://attaphoto.com>

<https://twitter.com/aulomaholding>

<https://www.facebook.com/auloma.pinhole/>

<https://www.instagram.com/aulomaholding/>