Panohero-Mini-Maxi User's Manual

Congratulations for purchasing the Panohero!

The light and precise panoramic head Panohero is the ideal device for quick and easy creation of high quality VR-content. With it and your camera you create perfect spherical panoramas of your outdoor tours, travels and interiors. Stitching to 65 MP is a breeze because your camera is kept in the optimal position throughout all shots. We at Herdima wish you a lot of enjoyment with your Panohero!

To get the most out of your Panohero, please read the following instructions and watch the videos on panohero.de.

Models

The instructions hold for these models:

Panohero-Mini-H6B, Panohero-Mini-H34, Panohero-Mini-Y4k, Panohero-Maxi-H6B, Panohero-Maxi-H34, Panohero-Maxi-Y4k

Shape and color of your model might differ from the images shown here.

Scope of delivery

- 1x bracket for action camera
- 1x arm or body with two joints
  (bottom: 4 possible positions, top: 2 possible positions)
- 1x foot or shoe including hex nut with ¼" photo thread

Safety instructions

Small parts: This product contains small parts that could be swallowed. Keep away from infants.

Heat: Preserve the Panohero from temperatures above 80° Celsius – otherwise the characteristics of the material change significantly – e.g. it becomes malleable.

Protection of the camera against dropping:
Panohero connects your camera to the tripod with tensile strength but this connection might be opened by shock or vibrations. Remain therefore close and keep an eye on your camera while it is held by Panohero.

Assembly

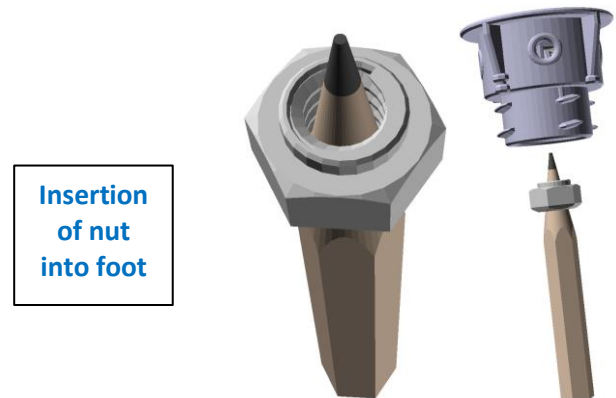This section is relevant for you mainly if you ordered your camera from a 3D printing service.

To reduce the production cost, all printed parts are connected by 3d-printed rings or sprues. Use scissors or a knife to disconnect all parts. Try to break the sprues before disposing them. So you get a feeling for the strength of the material.

A UNC ¼-20 hex nut needs to be inserted into the foot. Either use a polyamide hex nut as printed as part of the product or get a customary UNC ¼-20 hex nut made of steel.

The 3D-printed nut has a small downward extension to provide a maximum of grip. This extension must protrude into the bottom of the foot – see the cross section further below.
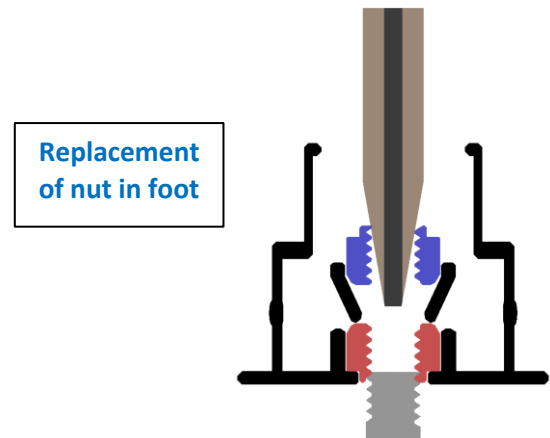**Insert hex nut** (see figure below)

Put the nut onto the tip of a pencil or of a ball pen as shown and press it softly into the foot until the nut snaps into place.

Insertion of nut into foot

Caution: The polyamide nut can be easily removed from the foot only if it is inserted in the shown orientation.

Replace hex nut (see figure below)
Put the replacement nut (blue) onto the tip of a butt pencil or of a ball pen. For a 3D-printed replacement nut, use the orientation as shown below. Open the catches by pressing the replacement nut into the foot. While keeping the catches open, press the foot down onto the thread of a tripod to push the old nut (red) up along the catches.

Replacement of nut in foot

Insert bubble level
Panohero-Maxi-H6B, Panohero-Maxi-H34 and Panohero-Maxi-Y4k support a customary bubble level. Get one with a height and diameter of 7 and 12mm. The mount for it is on half height of the middle part of Panohero. Put three drops of instant glue into the lower edge of the mount, put the bubble level in and turn it a little to spread the glue and to make sure that it touches down well.

Prepare camera

Select the *photo-mode* for single shots.
Choose the widest possible field of view.

Optional:

Set the *white balance* manually, so that the same setting is used for all shots. This results in a panorama without color variations caused by varying white balance.

Set *ISO* to a low value manually if the motive does not have motion. This way you obtain low-noise pictures. In turn, your exposure time will be longer. Tripod and touchless triggering prevent blurring by shake during exposure.

Choose the *RAW-format* or the *HDR mode* of your camera if possible.

Touchless triggering

Trigger your camera preferably touchless – by timer, by voice control, with a remote control or with a mobile device (smartphone or tablet).

Insert camera into bracket

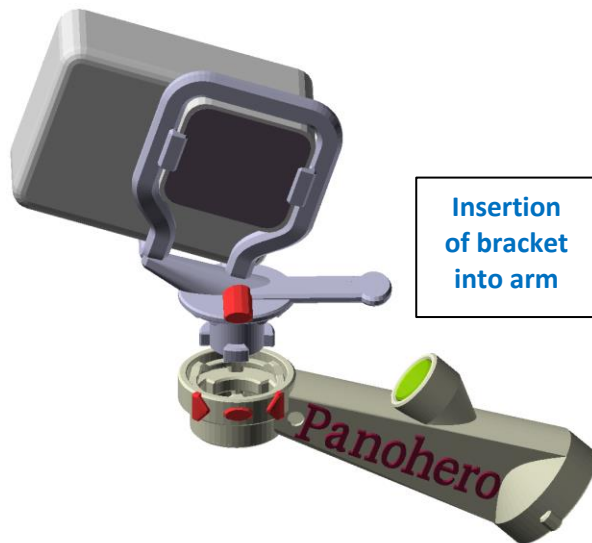Insert the camera into the bracket with its top first as shown in the figure:

Insertion
of camera
into bracket

To remove the camera, press the end of the horizontal carrier (at the bottom right in the figure) down by ca. 4mm with your thumb such that the camera is released.

Insert bracket into arm

The position for the insertion of the bracket into the arm is marked by a protruding handle. During insertion and removal it must point down along the arm. In addition, elliptical pins on bracket and arm are aligned in this position.

Insertion
of bracket
into arm

For *shots to the bottom,* turn the bracket by about 45 degrees to the left.
For *shots to the top,* turn the bracket by about 45 degrees to the right.

The bracket locks noticeably into place at the stop. Both stops are marked on the arm.

Attach Panohero to tripod

Attach foot to tripod:
Screw the foot of Panohero onto the ¼ inch photo thread of a tripod.

Set arm into foot:
Set the arm into the foot of your Panohero. Four positions are possible. Fasten the arm by a *clockwise* quarter rotation.

Take single shots

Use of the Panohero is really easy.

During rotation of the bracket with respect to the arm as well as during rotation of the arm with respect to the foot, the optical center of the camera remains stationary. Therefore perfect panoramic pictures can be shot in next to no time with your Panohero – without any parallax-error.

Start with the downward shots. Trigger the camera.

Rotate the arm in the foot counter-clockwise by a half turn. The arm moves noticeably down at the end of the thread. Fasten the arm by an opposed quarter rotation. Trigger a second time.

Repeat the rotation of the arm and trigger a third and a fourth time. Now turn the bracket with respect to the arm by a quarter turn to the other stop. Take four upward shots while rotating the arm as before.

Feedback

We are happy to receive your email with feedback, tips, suggestions or with links to your panoramas.

Additional offers

Do you want to receive a PDF-document full of **tips and tricks** and **best practices** for the production of high quality VR-content with your Panohero?

Do you need a license of PanoramaStudio 3 Pro for only 40 Euro?

Are you interested in a **free package** of 100 virtual tours at the service KeepEyeOnBall for the **automatic stitching** of your shots and for the creation and hosting of virtual tours?

Send an email to info at herdima.de with your name, country and model of camera and Panohero for access to these offers.

Additional information

Visit www.panorama-herdima.de for further information about our products.

Panohero is a product of the company Herdima in D-85635 Höhenkirchen, Bavaria. The product is subject of a German utility patent.