

## Mounts to Capture the Best of Your Active Lifestyle

*Two various mounts for the camera Narrative Clip 2 were developed, focusing on people with an active lifestyle. Attachable to handlebars and helmets - the mounts makes it possible to capture and exercise your activity/sport!*



The mounts developed in the thesis includes a ball-joint for rotation, a snap-fit case where to attach the camera and two bottom plates that can be varied depending on placement; one for helmets and one for handlebars. The bottom plate for helmets attaches with double sided tape and is designed to follow an arched shape, making it fit to any helmet. The bottom plate for handlebars fits a various range of handlebars as it is tightened with a strap. The ball-joint and the snap-fit case are assembled with plugs functioning as a hinge, making it possible to adjust the angle of the camera. The ball-joint and the snap-fit case can be moved between the two bottom plates as they attaches with magnets - a feature making it easy to switch location of your camera between your helmet and your handlebar.

The features explained are developed as parts of mounts for the company Narrative AB's camera Narrative Clip 2, focusing on people with an active lifestyle. The metal clip used to attach the camera today limits its scope of use to everyday clothing. Therefore, research and product development will be done to find new ways to attach the Narrative Clip to broaden its scope of use and reach a wider customer group. The terminal goal of the thesis is to come down to which types of mounts to develop for the active lifestyle user and thereafter, create 3D-printed versions of these mounts.

The first step of the thesis was to understand the needs of potential customers and get insight of where a placement of the Narrative Clip 2 would be the most suitable for their activity/sport. Hence, surveys were sent out to Swedish and international potential customers. With the information given from the surveys, it was decided to develop mounts for bicycle handlebars and helmets. From the customer needs, the following needs were compiled for the mounts: secure, small size, holds the camera steady and possibility to rotate the camera. Also, the following desires were compiled: pliable and attachable to all handlebars/helmets. It is very important that these needs are met so the product answer for the needs of the end-user.

In the second step of the thesis, the problem was divided into subproblems making it easier to focus on one problem at a time. The problem "Attachment for handlebars/helmets" was divided into the subproblems "Attach to handlebar/helmet", "Attach camera to attachment" and "Rotation and angle adjustment". The subproblems were solved respectively by discussions and research of the existing market, whereas various concept ideas were generated and sketched. Simple prototypes of the concept ideas were 3D-modelled, 3D-printed and tested and after a workshop and a ranking of the concepts it was clear what concepts to develop further. Before setting the final refinements, the following features were compiled to be included in the final concept.

- Two various bottom plates; one attachable to helmets and one attachable to handlebars.
- A ball-joint enabling rotation and angle adjustment.
- A feature making it possible to attach/detach the ball-joint to/from the bottom plate, making it possible to attach/detach the ball-joint and the camera without removing the bottom plates from the helmet or handlebar.
- A feature making it possible to attach/detach the camera to/from the mount.

Refined concepts for the four features were compiled. The concepts for each feature were ranked depending on how well they met the compiled needs and desires of the mounts. The thesis resulted in the chosen concepts assembled into the final concept.

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