Chin Rest
User Manual

User manual Chin Rest

Version 1.0

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Table of Contents

1 Introduction

The Chin Rest is a solution to hold a participant's head in place when conducting eye tracking experiments with screen-based eye trackers.

Tobii Pro eye trackers are designed to capture high-quality eye tracking data while allowing for natural head movements. However, some experiments may benefit from stabilizing the participant's head position by using a chin rest, for example, to reduce the influence of head movements on the eye movement signals or in experiments where precise control of stimuli is essential.

The Chin Rest may be used for microsaccade studies, antisaccade experiments, studies within reading research, or other applications.

1.1 Symbols used in this document

In this manual we use symbols for three levels of information:

The Information symbol is used for notifying you of something important or of something that needs special attention.

The Tip symbol signifies a way to make a function or procedure easier.

The Warning symbol is used to inform of something in which there is a conceivable risk of harm to the user if the Warning is ignored.

2 Safety

The Chin Rest is designed for use in eye tracking studies in which adult participants need to stay in a comfortable and reproducible position. The Chin Rest is intended only for indoor research. It should not be used as a medical device. Please read the User Manual of the eye tracker used with the Chin Rest for safety precautions pertaining to that specific eye tracker.

2.1 Mounting

The Chin Rest is designed to be fixed to a tabletop. Ensure that the table is stable, that the Chin Rest is assembled correctly, and that it is sturdily affixed to the table before use. This will help prevent injury to the test participant, damage to the Chin Rest, the eye tracker, and any other equipment placed on the table.

2.2 Transport

Only carry the Chin Rest by the vertical posts or by the base. Never carry the Chin Rest by the chin support or forehead support.

2.3 Proper use

Please follow the instructions in the User Manual carefully. Should the Chin Rest for any reason harm someone or damage something due to falling or any other incident, neither Tobii Pro AB nor any of its representatives will be responsible nor liable for any damages or injuries that may occur. Mounting and use of the product is done entirely at the user's own risk.

2.4 Emergency

The Chin Rest is designed for research purposes only. Be aware that due to the low, but possible risk of failure or distraction, the Chin Rest should not be relied upon or used in dangerous or otherwise critical situations.

2.5 Child safety

The Chin Rest is composed of numerous separate, assembled parts. In the hands of a child, some parts could become separated from the device, possibly resulting in a choking hazard or other danger to the child.

If not affixed or handled properly, the Chin Rest could fall and cause injuries. Young children should not have access to, nor use the device, without adult supervision.

3 Overview of Chin Rest

3.1 What's in the Chin Rest box

The Chin Rest box contains the following:

- Chin Rest
- Cleaning wipes
- Safety and Get Started Guide

The Chin Rest is shipped fully assembled and ready to be mounted on a tabletop. The total weight of the product is approximately 3.6 kg (7.94 lbs).

The Chin Rest is heavy. Use caution when lifting it out of the shipping box. To avoid injury or accidently dropping it during unpackaging, only lift the Chin Rest by the base or the posts (see Figure 1).

The Chin Rest consists of a chin support and a forehead support mounted between a pair of vertical posts. The posts are fixed to a base with a clamp for attaching the Chin Rest to a tabletop. The position of the chin support and the forehead support can be easily changed using the adjustment knobs.

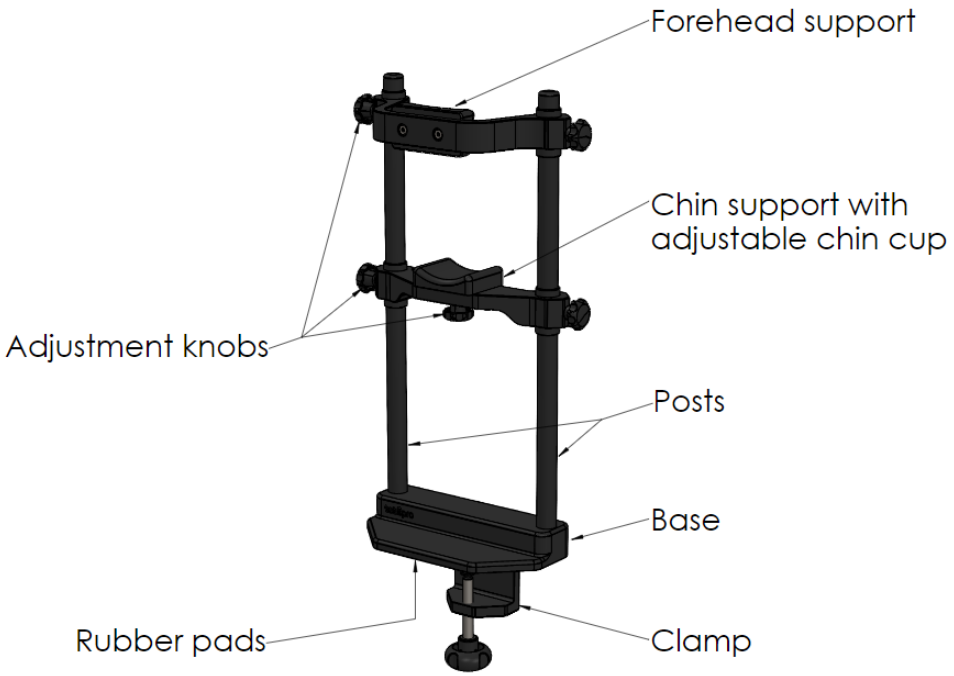

Figure 1. The main components of the Chin Rest

The chin support and the forehead support have an ergonomic design and is made of plastic material that is easy to sanitize.

The posts and the base are made of black anodized aluminum. The clamp and adjustment screws are made of steel.

3.2 How the Chin Rest works

The Chin Rest is used to hold a participant's head in place when conducting eye tracking experiments with screen-based eye trackers.

The Chin Rest can be mounted on a tabletop up to 50 mm thick using the clamp at the base of the assembly. After firmly attaching the Chin Rest on the tabletop, the chin support and the forehead support can be adjusted vertically along the entire length of the posts. This ensures a comfortable fit for each participant while holding the head in place during the entire experiment.

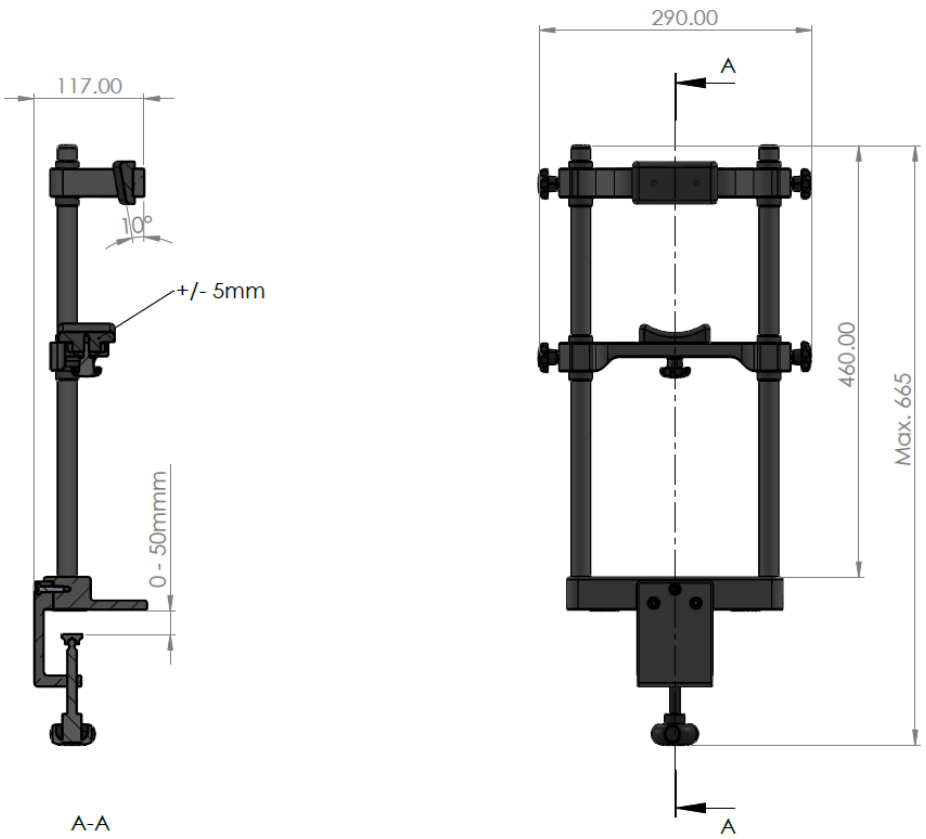

Figure 2. Dimensions of Chin Rest components

The Chin Rest is designed to be fully adjustable for comfort. The forehead support has a 10° angle for a comfortable positioning of the participants forehead. The chin cup is adjustable on the chin support in a front and back direction by +/- 5 mm, with the help of the knob under the chin cup. This allows for different chin and head shapes and sizes.

No tools are needed for attaching the Chin Rest or for adjusting the movable parts. The knobs should be tightened firmly by hand. For the side knobs, adjust both sides at the same time.

The Chin Rest base has rubber pads to protect the tabletop. To ensure minimal tilt of the Chin Rest when the participant leans forward, consider reducing the overall elasticity of the setup. You can do this by using a sturdy tabletop and by removing the rubber pads from the Chin Rest base.

Overtightening the adjustment knobs can cause damage to the related components.

4 Set up your Chin Rest

In a typical eye tracking study, the participant is seated at a table in front of an eye tracker and related monitor. A height-adjustable table and chair is recommended to position the participant in front of the eye tracker. When adding a chin rest to the setup, the intent is to keep the participant in a comfortable and reproducible position during the experiment.

The chin rest is mounted on the edge of the table in front of the monitor and eye tracker. The participant is seated on a chair, with their head resting on the chin rest. The researcher assists with the various adjustments of the chair, table, and chin rest to ensure that the participant is sitting comfortably and in an optimal position for eye tracking. Refer to the applicable eye tracker's User Manual for details on how to position the participant in front of the eye tracker.

5 Product Care

5.1 Cleaning

All the components can be easily sanitized between sessions. Use Ethanol, Isopropyl alcohol or a mild detergent on a soft damp cloth. Suitable cleaning wipes are included in the box.

5.2 Storage and Transportation

Store the Chin Rest in a dry place, with a relative humidity of 10-60%, and a temperature of 0 - 40°C (32°F - 104°F).

Use the original packaging for storage and transport. The complete assembly weighs approximately 3.6 kg (7.94 lbs).

Before storing or transporting the Chin Rest, make sure that all adjustment knobs are tightened to avoid parts sliding or falling off.

When moving the Chin Rest, only carry it by the vertical posts or by the base. Do not lift it by holding the forehead support or the chin support. This may result in parts of the assembly falling off and cause harm to people or damage to parts of the Chin Rest.

6 Support, Learning Center, and Warranty

6.1 Customer Support

If you need help, please contact Customer Support at Tobii Pro. To receive assistance as quickly as possible, make sure you have access to your Tobii Pro accessory and, if possible, an Internet connection.

6.2 Get help online

Many questions can be answered by visiting Tobii Pro Connect. It contains the latest information about contacting Support, links to our Learning Center, and much more. Log in or register to see information about your account and to reach Customer Support at Tobii Pro Connect.

6.3 Learning Center

If you are new to eye tracking, or want to extend your knowledge about eye tracking research, sign up for one of our learning programs and events, or browse through our extensive article library in our Learning Center.

For further product information and other support resources, please visit www.tobiipro.com.

6.4 Warranty information

Read more online about Tobii Pro Care and the Tobii Pro's eye tracker warranty.