

## ACT Head Impact Tracker head sensor attachment in ice-hockey

We always recommend attaching sensor to the head if possible. This way the measurements are accurate and correlate better with injury mechanism = head movement.

### Field Players

#### **1. Attachment with ACT Head Impact Tracker headband or Dock with own head or hairband on the head**

Use ACT Head Impact Tracker headband, or skinny hair/headband of your choosing with ACT Head Impact Tracker Dock to attach ACT Head Impact Tracker. ACT Head Impact Tracker accessories are available in [www.act-tracker.com](http://www.act-tracker.com) web store.

- We recommend top use as in the picture below.
- Do not wear sensor where direct impacts can occur, or where there is pressure.
- If you feel discomfort, change the sensor location.



**2. If attachment on a head is not possible, sensor can also be attached on the helmet. But before you do, check from the helmet manufacturer's owner's manual or similar if it is possible. If yes, here are some alternative ways to do it.**

2a.) An example of attachment inside the helmet: find even surface in the hard outer shell of the helmet inside the helmet, between the paddings. Attach the mid-sized hook&loop tape piece to the surface. The hook&loop -tape pieces need to do this attachment comes with every sensor purchase. If you didn't get yours, please contact the place you purchased the sensor from.

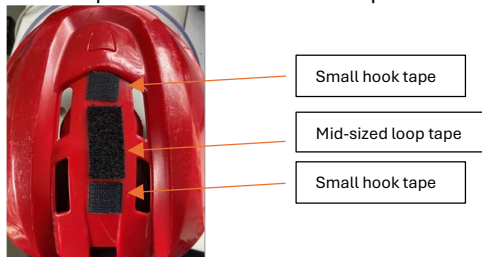


2b.) Another way is to attach the sensor to the outer hard shell. Pictures below show how this can be done.

2b1.

To this attachment you will need pieces of hook&loop-tape. You can purchase hook&loop-tape and without the tape needed to this attachment in most of the arts and crafts shops.

**Step 1.** Attach piece of loop tape that comes with the sensor on the outside on an even part of hard surface. Then add one piece of small hook side tape on each end of the mid sized hook tape (like in the picture).



**Step 2.** Add piece of mid-sized hook tape on the back side of the sensor, and attach sensor as shown in the pictures below.



**Step 3.**

Add largest piece of hook-tape (no sticker) over the sensor and attach it to the small hook takes on the helmet as show in the picture below.



2b2.

Instead of Velcro-tape, you can also use strong PVC tape as shown in the picture below.



Remember to add a sensor-sized piece of transparent foil, or piece of transparent tape glue-side-to-glue-side, on top of the sensor before tape is set to prevent the tape from attaching onto the sensor's grey top foam, and foam to be ripped off when tape is removed for battery exchange.

If you use colored tape, cut a small hole in it to see the led-light and indicate where the on/off-button is.

**3. Attachment with sensor box**

The sensor can be attached to helmet with a sensor box designed to ACT Head Impact Tracker sensor.



Below are presented three different locations on the hockey helmet where the sensor box can be attached to.

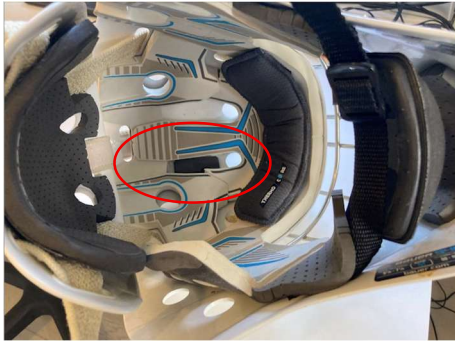


## Goalies

With goalie masks it is usually not possible to attach sensor to the head. If attachment on a head is not possible, sensor can also be attached on the helmet. But before you do, check from the helmet manufacturer's owner's manual or similar if it is possible. If yes, here are some alternative ways to do it.

3a.) We recommend using goalie masks compatible with ACT Head Impact Tracker head sensor and head Sensor Pro. Atleast Wall Mask is currently developing a mask like this. Keep an eye on manufacturers' and ACT Head Impact Tracker's websites and social media to find out when intelligent-ready goalie masks are made available!

3b.) Another way to attach sensor to goalie mask is to attach it to the even spot on the hard outer shell inside the mask, between the paddings, utilising the velcro tape pieces that come with the sensor purchase. See an example in picture below.



3c.) you can also attach it outside following the instructions in section 2b earlier in this manual. You will need to this attachment extra pieces of hook&loop tape. You can buy hook&loop tape in most of the arts and crafts shops, ask from the place you purchased the sensor from, or send an inquiry to [contact@norspo.com](mailto:contact@norspo.com)

**Remember to switch the sensor on just before entering to the pitch and switch it off when leaving the pitch!**

This way you can minimize the false positive events from handling and transportation, and you can make the battery last longer.

*ACT Head Impact Tracker is not a medical device, and it is not a protective device or gear of any kind. ACT Head Impact Tracker will not protect you from any kind of injury. ACT Head Impact Tracker is a measuring device to complement you doing safe and responsible sports.*