Ski Testing

Product brochure

The innovative analysis and documentation system provided by Lympik sets new standards, both in time recording and in evaluation possibilities. For the first time, the unique solution combines satellite technology and IoT (Internet of Things) for professional sports. This means that radio transmission is no longer necessary, as the high-precision data is transmitted directly via the cell phone network and analyzed in the cloud. The results are immediately available and accessible via mobile devices such as smartphones or tables live and in real time.

Measurement

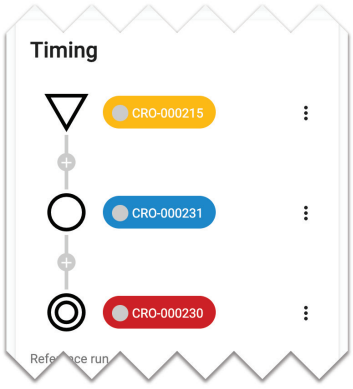
The CHRONOS central measuring unit can be used with a wide variety of sensors.
Starting from light barriers and start bars for winter operation up to pressure plates for speed training in summer. CHRONOS is directly connected to the Lympik cloud system which makes the configuration of the devices very easy. Furthermore, NFC chips can be used to personalize results. The highly accurate timing is guaranteed by satellite technology.

Communication:	**Cellular**	Weather resistant:	**-20° bis 40° (IP67)**
Battery:	**36 hours** (depending on sensor)	Dimensions:	**12,2 cm x 8,4 cm**

Each ski can be fitted with NFC stickers which are available for cross country skis and alpine skis. They identify the ski before the start at the CHRONOS device (reading distance approx. 5 cm). As soon as the ski reaches the finish line, the result is immediately available online via cell phone or tablet.

Easy to use mounting poles

Light gate with 18m range.
Reliable detection even with highly reflective material or bad weather conditions



As each CHRONOS can be used universally for start, intermediate time or finish, you have the possibility to assemble a track through a mobile device.
This can be done the day before the training day, in order to not lose any time on the training day itself.

With the help of a reference time, you can avoid false triggers. You simply enter the minimum and maximum runtime. It can also be set separately for each split time.

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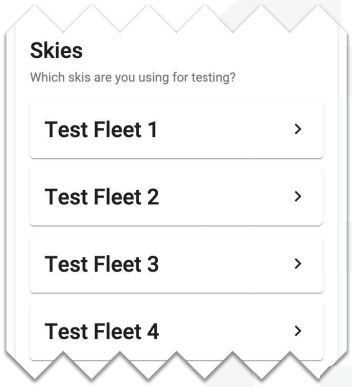
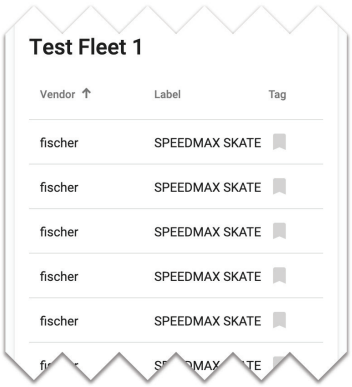
Management

The ski testing module is designed to easily and conveniently manage all your equipment. This usually happens every time new skis or waxes are added to the testing pool.

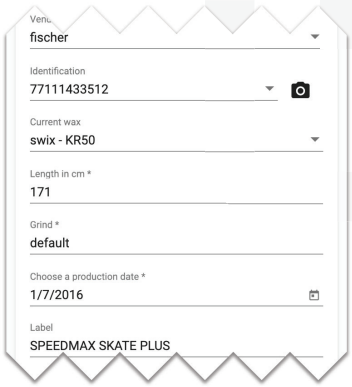
Waxes are stored with all their attributes, such as temperature range and vendor.



All skis are organized in ski fleets. This provides the ability to group skies for athletes or different disciplines.



It is possible to attach an NFC sticker (tag) to each ski. This way, all results are immediatly assigned to the ski.



You can track every ski with attributes such as production date, label or length.

Zero Tests

Every ski is different. Zero tests are a common method to reduce measurement errors due to manufacturing differences in skis. Usually, these tests are done before the actual test.
The collected zero test data is used to compensate the measured data. In the end, the final result is free of manufacturing differences and therefore provides a more accurate testing result.

Measure → **Compensate** → **Final result**

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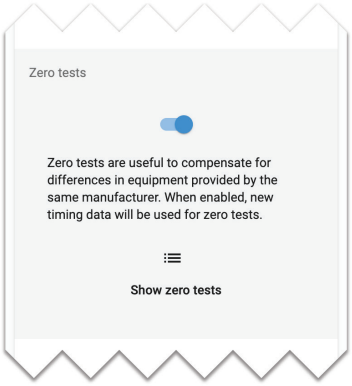
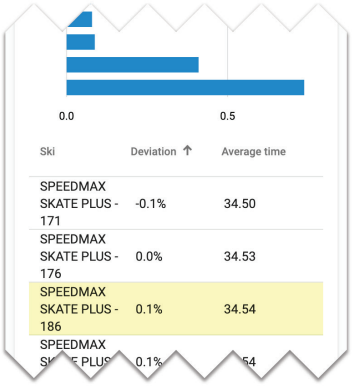
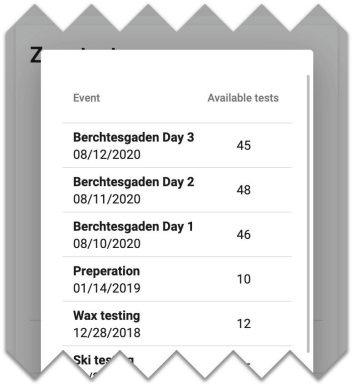
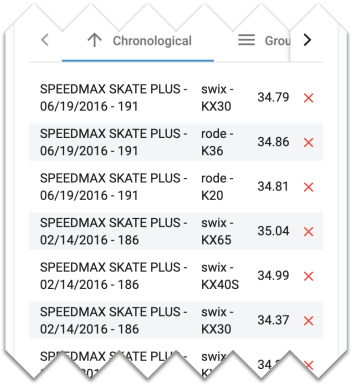


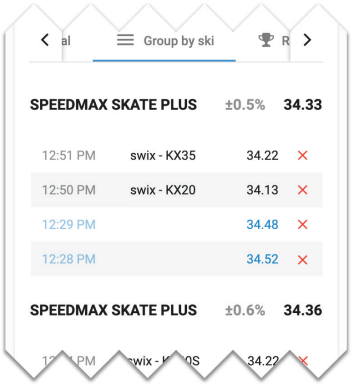


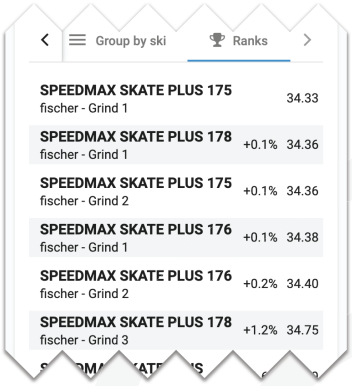


You can easily enable zero tests by pushing one button. Zero data results will be marked as blue text. It is possible to view all zero test data. You will see the average deviation used to compensate the final result. Already collected test data can be imported from previous events.

Evaluation

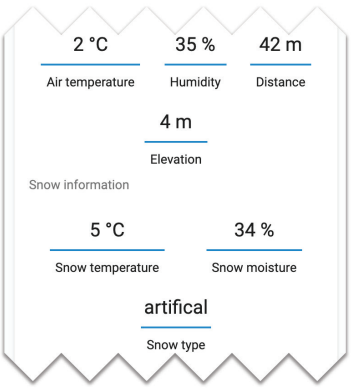


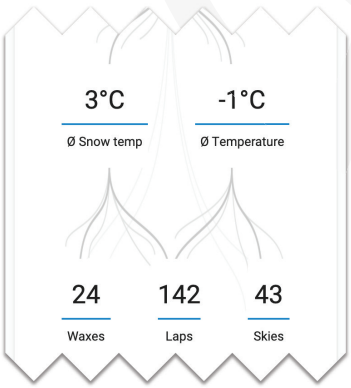




Several views are available to quickly gain an overview of the measured data, as well as to capture detailed insights. The chronological view provides an overview of the latest results. The grouped view, on the other hand, delivers details about the equipments performance. You will see the average time and the deviation to easily spot false results. The best equipment is listed in the ranking view.

Documentation





Documentation of weather and snow provides the ability to obtain detailed insights on historical data.

In the future, we will provide a tool to predict the best ski/wax based on already collected data.

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