RACE ◼ RESULT

Precision · Passion · German Engineering

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Technology Leader

Always looking ahead

"2020 was a challenging year for the entire sports event industry. We used the time to position ourselves well for the future. The market launch of our Track Box Passive hit a new milestone. This little device has what it takes to take timekeeping to a completely new level.

Our specific answer to the challenges of the pandemic is called TAVI. The solution for contact tracing and visitor flow measurement is based on our hardware and software and has been met with great interest.
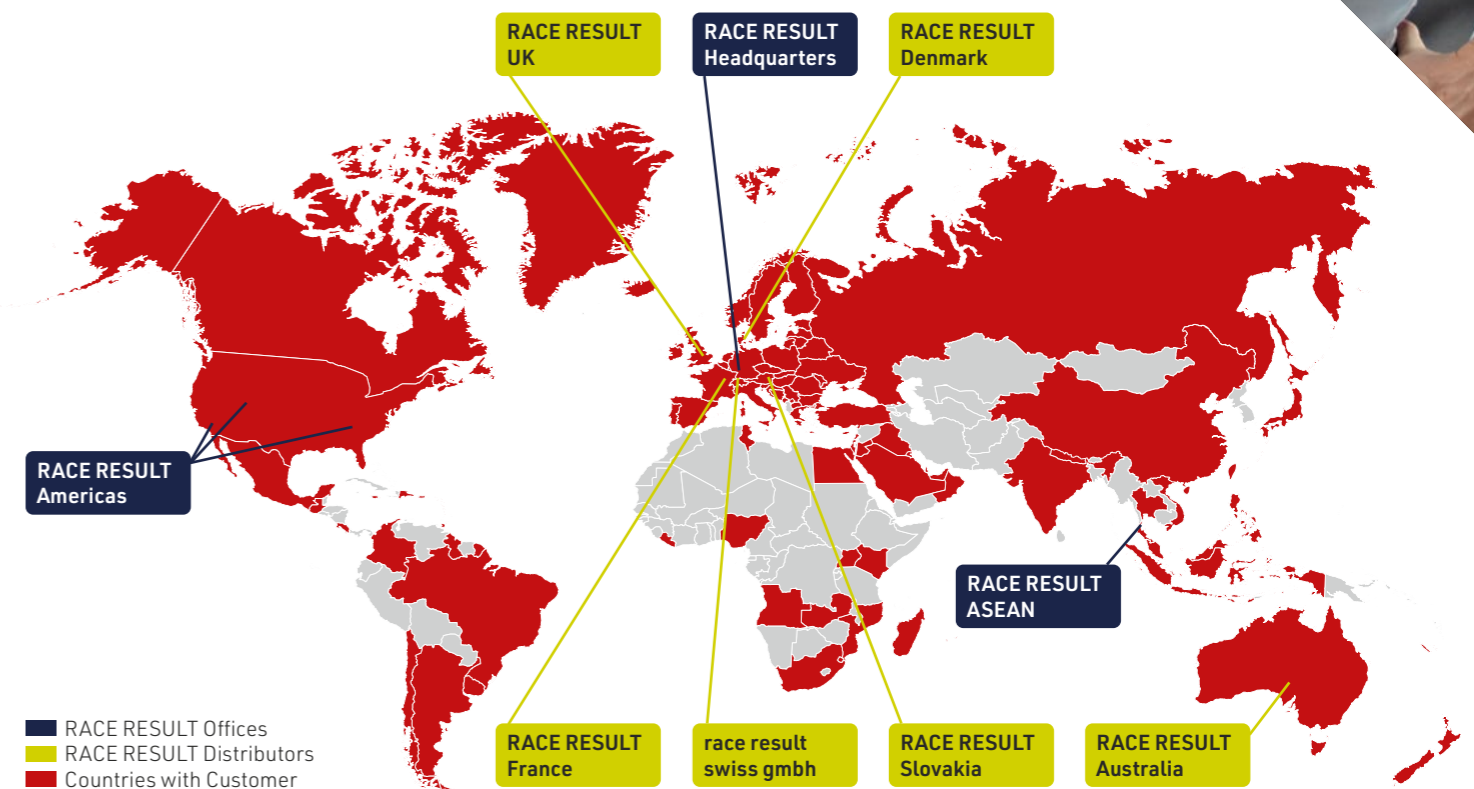
We look forward to a time after the pandemic when many exciting sporting events will return all over the world. We remain a strong partner for timekeepers, organizers and clubs.

One step ahead – in terms of innovation, quality and customer service. That remains our promise to everyone who counts on our products and solutions."

Sönke Petersen, CEO

Worldwide Presence

RACE RESULT
UK

RACE RESULT
Headquarters

RACE RESULT
Denmark

RACE RESULT
Americas

RACE RESULT
ASEAN

RACE RESULT
France

race result
swiss gmbh

RACE RESULT
Slovakia

RACE RESULT
Australia

■ RACE RESULT Offices
■ RACE RESULT Distributors
■ Countries with Customer

Our complete timing package of hardware and software is used in over 85 countries at around 10,000 events annually. Our distributors and offices are internationally present. Local personal contacts guarantee outstanding support and quick availability of our products.

Our success is based on close collaboration with event organizers and timing professionals. Thanks to continuous feedback from thousands of events, we are able to develop solutions that meet the needs of the timing market.

We offer the complete timing package for any size event to our continually growing customer base.

We print thousands of personalized bib numbers every day to send out to events around the world.

Operating out of Pfinztal, Germany, our engineering team continues to release innovative and revolutionary products. Our production team strives to produce as many products as possible in-house and every product undergoes our rigorous quality assurance processes before being shipped.

Our software, RACE RESULT 12, is the most flexible solution for timing and scoring software worldwide. Our software developers never stop improving, maintaining and updating RACE RESULT 12.
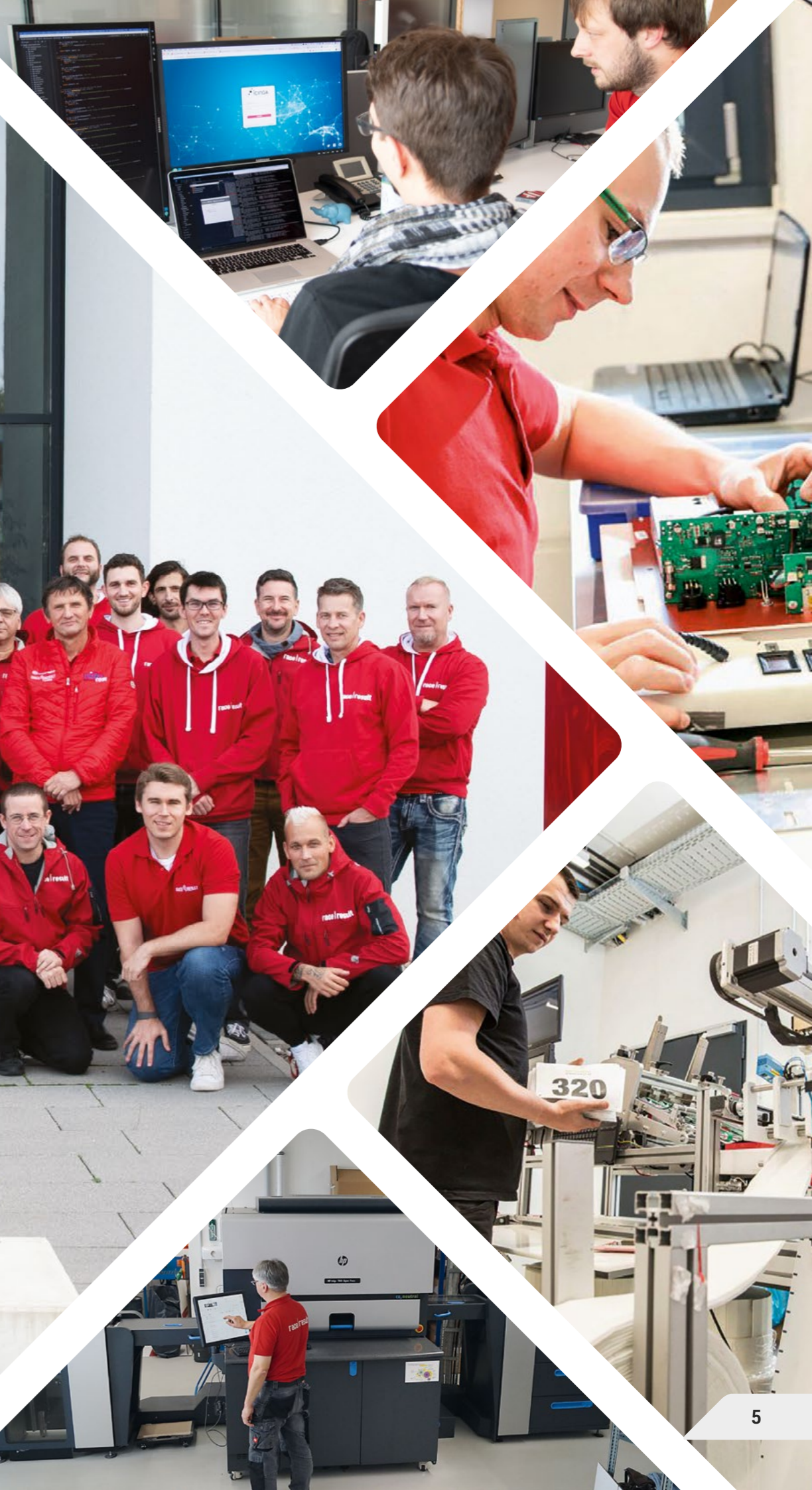
RACE RESULT 12 Software

RACE RESULT 12 is the perfect solution for online registration, payment processing, participant management, timing and scoring. Whether it's a fun run, triathlon, gigathlon, 24-hour ultramarathon, cross-country skiing, inline skating or any other conceivable event, RACE RESULT 12 can handle it!
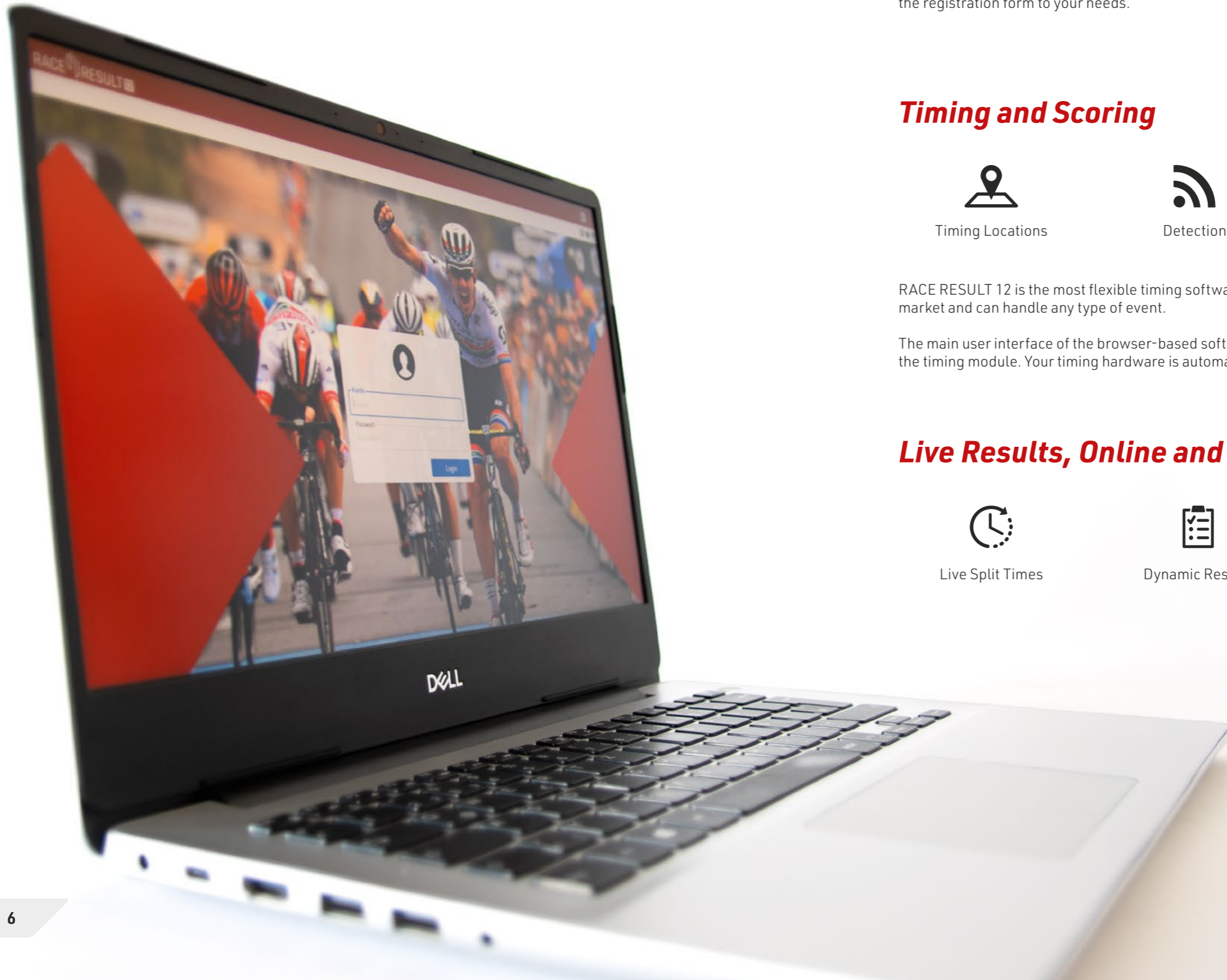
Participant Management

| Registration | Email Campaigns | Payment Processing | SMS Service |

Setting up online registration for your event is fast and easy. The numerous settings give you the flexibility to customize the registration form to your needs.

With just one click you can publish registration on my.raceresult.com or connect it to your own website and adjust the layout with custom CSS.
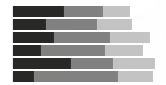
Timing and Scoring

| Timing Locations | Detections | Leaderboard | Race Time Visualizations |

RACE RESULT 12 is the most flexible timing software on the market and can handle any type of event.

The main user interface of the browser-based software is the timing module. Your timing hardware is automatically recognized, timing can be started, and you can view all data live. You always keep control over your event – no matter if on-site or remotely, miles away from your finish line.

Live Results, Online and On-Site

| Live Split Times | Dynamic Results | Finisher Certificates | Responsive Design |

RACE RESULT 12 offers many tools to present results on-site: on a tablet for the announcer, on a big display screen, or as live inserts for TV-broadcast.

Publish your live results with a few clicks to our platform on my.raceresult.com or to your own website.

Passive System

RACE RESULT Decoder 5000S

The decoder receives the signals from transponders through the ground antenna, calculates the exact passing time and transmits the data live to RACE RESULT 12 for results calculations. The system is completely self-sufficient and cannot be influenced by a power outage or computer crash. With its internal battery and storage, the system is resilient against weak event infrastructure.

- Internal battery
- Up to 10h battery life
- Precise synchronized GPS time
- Integrated 4G module
- Easy to operate
- Online firmware update
- Weight: 14kg/30lb

Passive Ground Antenna

The original and patented folding mat
- 4.8m/16ft extendable up to 8.4m/28ft
- Foldable, flat design
- Lighter than competing products
- Easy setup in less than 1 minute
- Extremely robust – vehicle traffic is no problem
- Detection rate: >2,500 Transponders/min
- Precision: 200ms
- Weight:
  4.8m = 27kg/60lb
  8.4m = 40kg/88lb

Trolley for the 8.4m Extension Kit

PATENTED

Single-Use Passive Transponders

Single-Use Passive Transponders on bibs
- Full color print according to your design
- Various formats and tear-off options
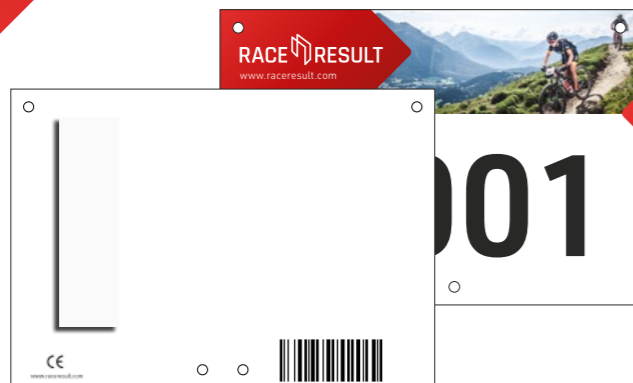- One or two transponders on the backside
- No minimum order

Bib with Transponder
(single + duo)

MTB Plate
with Transponder

RACE RESULT Triathlon-Tag
(disposable)

Seatpost Sticker
with Transponder

RACE RESULT
Bib Transponder

Multi-Use Passive Transponders

RACE RESULT HuTag

TransponderCard (reusable)

RACE RESULT Baton
with Transponder

Chip2Go

With Chip2Go timekeepers can program RACE RESULT RAW-Transponders themselves.

Chip2Go is the perfect solution for last minute production of race numbers, for late registrations or smaller events. The bib number printed on the bib is entered or scanned, the Chip2Go then automatically programs a transponder to that number, which can easily be applied to the backside of the bib.

Features:
- Touchscreen
- USB numeric keypad included
- Barcode scanner optional
- Transponder reader on the front side
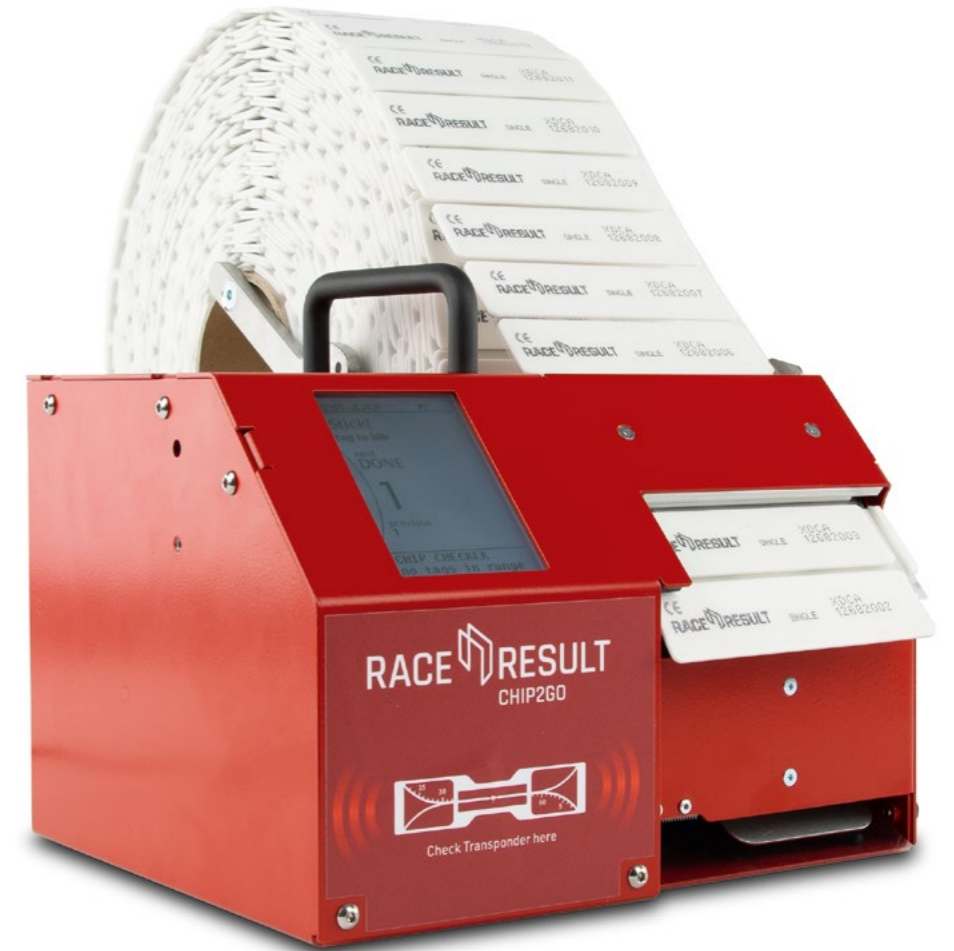
High Gain UHF Antenna

For finish lines without ground antennas
Perfect for special events like mass road cycling races in which roads are open for vehicle traffic and ground antennas cannot be used. With high signal power these antennas provide long range and high precision. The ideal transponder for this setup is the "Seatpost Sticker with transponder".

Track Box Passive

The RACE RESULT Track Box Passive is the perfect solution for split points. No other timing device on the market offers so many opportunities in such a small handy box! The Track Box Passive combines a custom UHF reader and antenna, 4G/LTE modem, GPS module and internal battery all in one ready-to-go unit. It is primarily designed for sports timing using passive UHF transponders, making it the ideal solution for setting up additional split points on a race course.

The transponder detection data, current GPS time and position of the Track Box are all uploaded to the server making it easier than ever to track participants. Sports timing isn't the only application that can benefit from the Track Box Passive – there are endless purposes in tracking and monitoring of people. One example is Contact Tracing within a facility or at an event. Visit our TAVI Website to learn more about other applications for the Track Box Passive.

With a weight of just 1.7kg/3.7lbs and thanks to it's small form-factor, the Track Box Passive is easy to carry and setup takes only a few seconds. The box can run autonomously and be managed via an online interface. The battery can last for a full race day and directly connecting a solar panel allows for permanent installations with minimal hardware. The design contains a foldable mounting arm with magnets to attach the device to metal surfaces and a stable stand to place it on the ground.

Track Box Passive Features:
- LEDs indicating GPS, network and reader status at any time
- Antennas for 4G/3G/2G, 2.4GHz, GPS and UHF RFID
- GPS location recorded for each passing (even when box is moving)
- Automatic NTP/GPS UTC time synchronization
- Automatic interference avoidance among close Track Boxes (patent pending #EP19213045)
- Automatic standby when laid flat facing upwards
- Remote control possible via RACE RESULT 12 Software: Standby (reduce battery consumption), Lock (button disabled, LEDs OFF), Status indication (battery, noise, errors)

Custom RACE RESULT RFID Reader:
- Lowest power consumption in the market (4W)
- RAIN UHF Gen2 protocol parameters tailored specifically for sports timing applications
- Custom integrated antenna design

Chasing Cancellara
Bern-Andermatt

Chasing Cancellara is a global series of cycling road races that was founded by two-time Olympic Gold medalist and four-time World Champion Fabian Cancellara. The Bern-Andermatt race course runs 200km through the Swiss Alps. 200 racers have to conquer the 4500m of altitude gain and climb over the legendary St. Gotthard pass.

The event took place in 2020 following COVID-19 restrictions with a time trial start. Timekeeper race result swiss timing gmbh deployed the newly developed Track Box Passive for split points. Cyclists are timed via a passive transponders that's integrated into a seatpost number and mounted on their bike.

With the race course not being able to be closed to regular car traffic, the Track Box Passive was the ideal solution. It can be mounted to street signs with the help of magnets. It takes a few seconds to install and set up the boxes and can easily be done without interfering with traffic. The Track Box can be turned on with a single push of a button or kept in stand-by and activated remotely. Similar to the RACE RESULT Decoder, the Track Box transmits all timing data live from the course via cell service.

CHASING
CANCELLARA

Bangsaen21 Half Marathon

This road race in Thailand is one of the most esteemed in the ASEAN region and has been awarded the Gold Label of the World Athletics. With around 12,000 participants registered, it was one of the few races of this size that could take place in 2020 despite the pandemic. Timing services were carried out by our long-term customer Primeworks Solutions with its managing director Julin Oapirat. He has been looking forward to supporting the event every year since its inception in 2015 – even if he and his team have to work through the night for the 3am start, a regular occurrence in Asia to avoid the midday heat.

For this event, Julin relies on the RACE RESULT Passive System with a total of 24 ground antennas to provide live data from the timing points. The official results are published on my.raceresult.com. Additionally, bib check stations at the race expo and results kiosk at the finish area are setup, making it a complete race day solution.

"The finest running event ever", says Julin Oapirat with Primeworks Solutions about this "golden" race.

Bangsaen21 is part of a series of events with Bangsaen42 and Bangsaen10, which Primeworks Solutions also times.
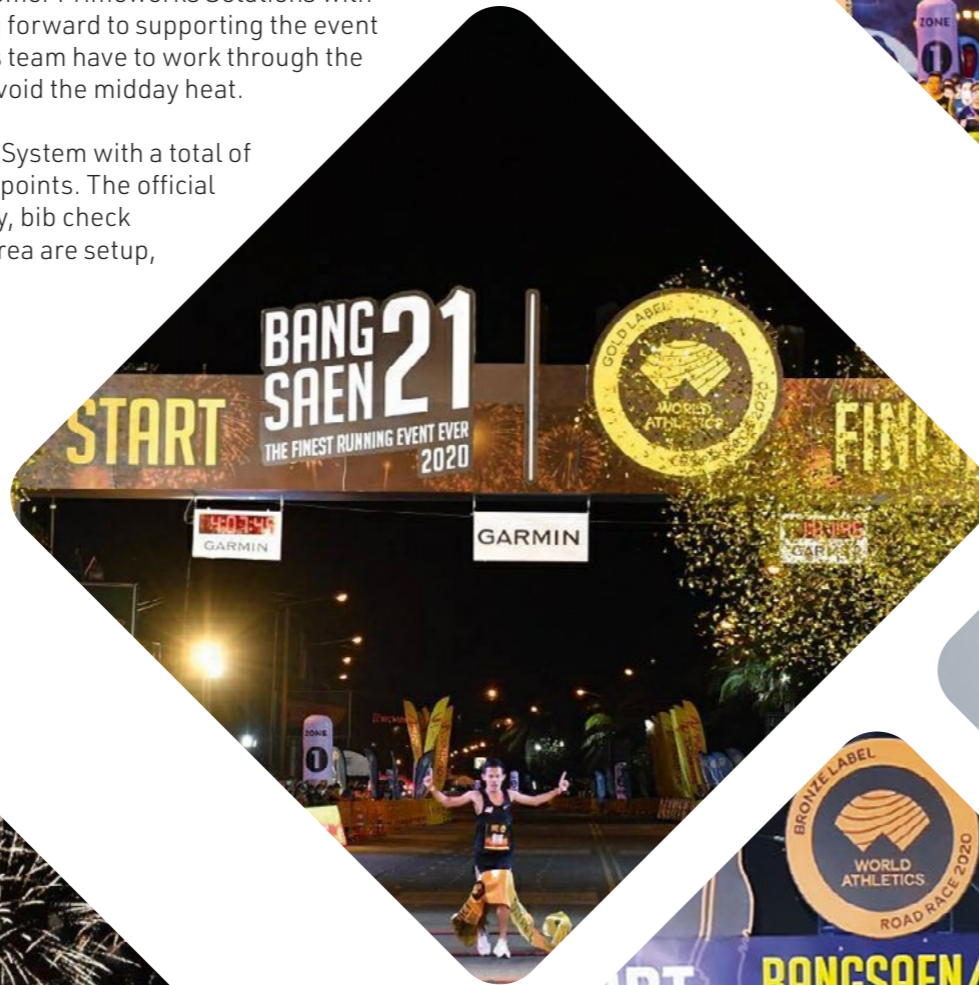
Active System

Active Extension

The active system is made up of the RACE RESULT Decoder 5000S Series and the active extension. In combination with the active transponders the system achieves a detection rate of 100 % and an accuracy of less than a hundredth of a second. Instead of a passive ground antenna, a thin loop wire is installed at the timing location.
– Most precise clock on the market: 0.28ppm precision
– Reliable detection at up to 250km/h
– Detection height up to 2.5m
– Loop length up to 25m
– Detects up to 100 transponders at once

USB Timing Box

Smallest Timing System in the World
– No need for a decoder, connects directly to a PC
– Internal storage up to 1,000 detections
– Internal battery up to 12 hours
– Receives split times from Loop Box
– Alternative to Active Extension

Active Loop Box

For Split Times
– Repeat Mode: Receives the transponder signal and repeats it wirelessly to a nearby main timing system
– Store Mode: Stores split times on the ActivePro/ MotorKart Transponders, which transmit the times when crossing the next main system
– Internal battery up to 20 hours

Management Box

The Multitool
– Sets transponders to deep sleep in order to conserve battery when not in use
– Easy management of your transponder pool
– Manages Track Boxes
– Activates Tracking Mode on the transponders
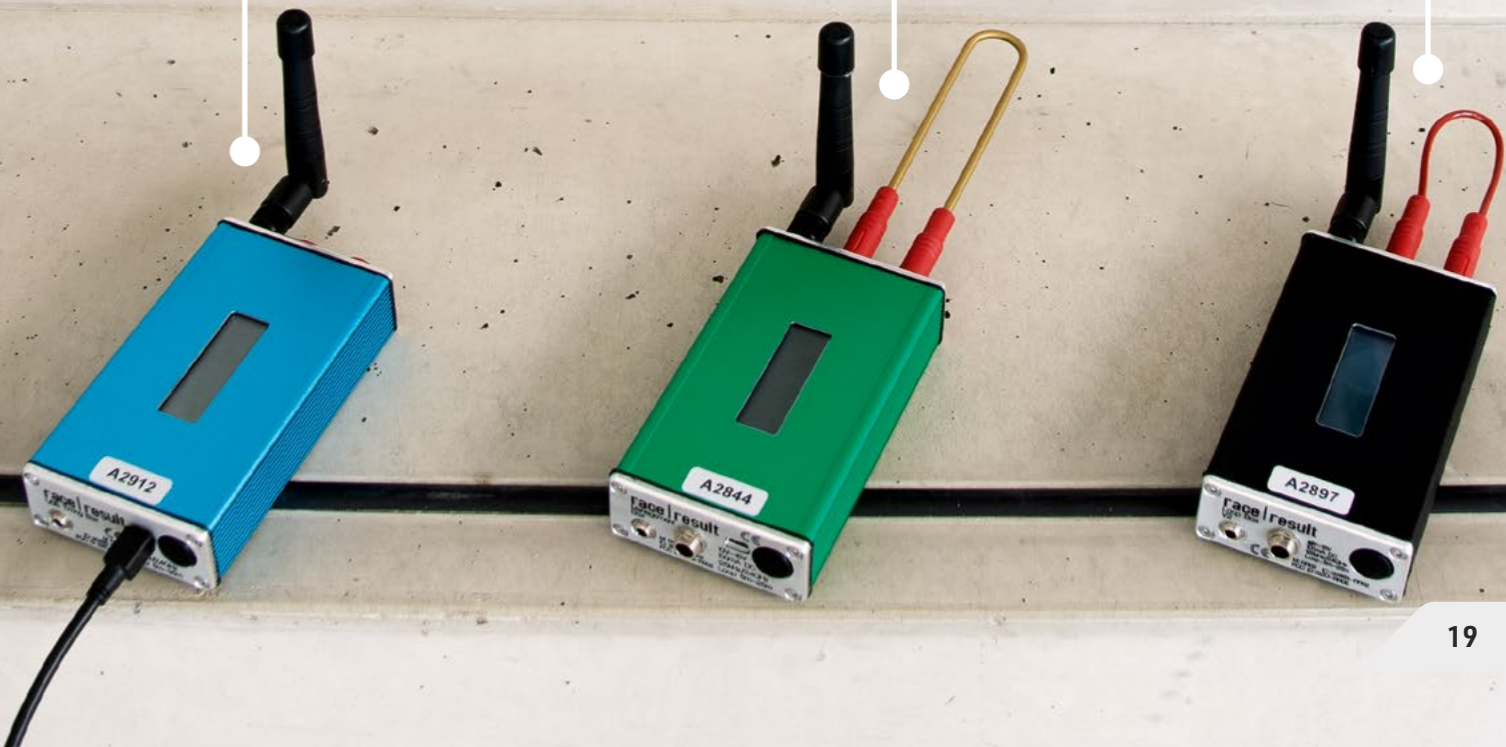
Active Transponder

Thousands of events around the world rely on RACE RESULT active transponders as a guarantee for maximum precision and reliability under all conditions.

V3 is the third transponder generation and takes the product to the next level with significantly lower power consumption, greater resistance to interferences and significantly increased accuracy.

The four V3 transponder options are tuned to different application scenarios. Different transponders can be used in the same race.

Track Box

The Track Box makes timing and tracking possible with the same transponder. Positioned along the route or placed on lead vehicles, the track box receives signals from all ActivePro V2 Transponders, that have Tracking mode activated, within a radius of 50m. The data is transmitted live and allows real-time data visualization of the race and an unheard of number of timing splits.
- Internal battery for up to 5 days
- Built-in magnets for easy mounting
- Internal GPS and 4G network connectivity for fast uploads
- Internal storage for up to 10,000 track pings

ActiveBasic V3

The budget choice. For clubs and events that appreciate the reliability of active technology and can do without highest accuracy, tracking and store mode.

Accuracy	Max. Speed	Warranty	Activation Antenna
0.2 s	60 km/h	4 years	2D
Store Mode	**Tracking Mode**	**Tracking Lifetime**	**Temperature**
-	-	-	-25 °C – 70 °C

ActivePro V3

The best choice for most events. Combines high accuracy and speed with long battery life, store mode and tracking.

Accuracy	Max. Speed	Warranty	Activation Antenna
0.004 s	120 km/h	5 years	3D
Store Mode	**Tracking Mode**	**Tracking Lifetime**	**Temperature**
✓	✓	400 / 1000 days	-25 °C – 70 °C

ActivePro V3 Performance

High-end transponders for pro races. Delivers the highest accuracy, most stable data transmission in sprint finishes, additional tracking data and store mode.

Accuracy	Max. Speed	Warranty	Activation Antenna
0.004 s	150 km/h	3.5 years	3D
Store Mode	**Tracking Mode**	**Tracking Lifetime**	**Temperature**
✓	✓	150 / 300 days	-25 °C – 70 °C

MotorKart V3

Special transponder for timing go-karts, trimmed for avoiding electrical interferences and detection heights < 0.5m. Ensures highest reliability and precision over tens of thousands of rounds of kart racing.

Accuracy	Max. Speed	Warranty	Activation Antenna
0.004 s	120 km/h	3.5 years	3D
Store Mode	**Tracking Mode**	**Tracking Lifetime**	**Temperature**
✓	✓	150 / 300 days	-25 °C – 70 °C

Other Equipment

We offer the complete solution for timing of sporting events. The pictured products are only a small selection of the many timing products and accessories we offer. You can find more in our Webshop at raceresult.com.

12V Battery Booster

Test Transponder

Active Transponder Holder

RACE RESULT Tag Reader

LED Clock

World Triathlon Abu Dhabi

The best triathletes in the world lined up to start the 2019 race season in Abu Dhabi. The first race of the ITU World Triathlon Series brought some heavy competition and set a fast pace. It was the first opportunity for elite triathletes to earn valuable ITU Olympic qualification points to secure one of the limited places at the start line of the Tokyo Olympics.

In addition to the elite race, more than 2,500 athletes from around the world competed in the Daman Abu Dhabi World Triathlon. They started in age group categories, family runs, relays and in the opening competition of the Special Olympics World Games, which also took place in Abu Dhabi in 2019.

The timing companies in charge of the biggest triathlon competition in the Middle East were Gulf Multi Sport (age group races) and Sportsplits

(elite races). They both relied on the complete solution from RACE RESULT. The athletes were equipped with ActivePro V2 Transponders and timing data was collected from 15 Decoders, 4 Loop Boxes and 6 Track Boxes. Online registration, timing, scoring and results publishing was accomplished with the RACE RESULT 12 software. All split points were transmitted live to the "Sportsplits Tracker" App, which smartphone users could download to follow the race and track individual athletes live.

Tour Down Under

Tour Down Under is the first race in the UCI World Tour calendar. Established in 1999, Tour Down Under consists of six stages in and around Adelaide, South Australia. As temperatures in the Australian summer can easily go beyond 40° C, it is not only challenging for the riders, but also for the equipment.

Since 2015, the ActivePro V2 Transponders have been deployed for the task, supporting the photofinish system and feeding live results to the commentators.

TAVI

Starting the spring of 2020, the COVID-19 pandemic caused event cancellations around the world. Our team at RACE RESULT brainstormed and asked the question: How can our know-how and technology help overcome this crisis? The result is our Contact Tracing System TAVI ("Transponder Assisted Visitor Information"), which has already successfully been implemented at dozens of events.

TAVI makes it possible to effectively implement visitor flow analysis, contact tracing, and capacity monitoring.

Staff, Visitors and customers at events or facilities are detected using passive UHF technology and the software can then assign them to predefined rooms or areas.
All data can be analyzed live and completely anonymously.

For example, capacity of each room can be separately monitored and controlled. In the event of an infection, the operator can immediately pull lists of data based on the identified case to identify who spent a prolonged period of time with the individual.

Advantages
- Not dependent on smart phone apps or limited by phone battery
- Affordable and contact-free passive transponders
- Quick, uncomplicated and wireless installation
- No transfer of private data to third parties

Do you need more information? Let our team help determine the best solution with our TAVI system for your events. **> tavi@raceresult.com**

TAVI website

Track Box Passive
- Installed at critical locations
- Detects all transponders within range of the Track Box
- Sends data via mobile network to a secure server
- Runs autonomously on battery or mains power

You can find more details on page 12.

TAVI Software
- Saves all data collected from the Track Boxes with date and time stamp
- Calculates on demand, which transponders were seen together over a defined time period
- Allows for a multitude of different analysis and visualizations of data
- All data analysis remains completely anonymous within the platform

TAVI-Components

Passive Transponder
- Distributed to visitors and staff
- Used as stickers (eg. on tickets) or attached to a lanyards
- Sends an anonymous, unique, identification code to the Track Boxes
- Very light weight and only around 1.5mm thick

Disposable TAVI Transponder

Reusable TAVI Transponder

RACE RESULT Bib Transponder

Switzerland Marathon Light

One of the few sporting events in Switzerland that was allowed to take place during the health pandemic. With a detailed safety concept in place, the race was permitted by local authorities with up to 1,000 participants. Bib numbers with passive transponders were used to track participants in the start and finish areas and served as the base for contact tracing in case of an infection. Some predefined areas like the race office, locker rooms, and refreshment areas were equipped with track boxes. With the TAVI software it was possible to track and trace who spent how long in a certain area. In case of a subsequently determined positive case of COVID-19, the number of possible contacts could be quickly determined and reduced to those at high risk. During the event, the organizer also had access to live data of occupancy in all areas and could quickly react if specific areas were reaching maximum capacity.

"Thanks to doing contract tracing at our event, we could guarantee that in case of a positive test, we would be able to drastically reduce the number of people required to quarantine. This is exactly what will be important at future events", concluded organizer Viktor Rothlin.

It's easy to combine the Contract Tracing system with the timekeeping equipment at sporting events. For example, it's also possible to use standard ground antenna mats for monitoring the use of certain areas.

We documented the concept and the implementation at the Swiss Marathon Light in a case study. It is available free for download ⤢.
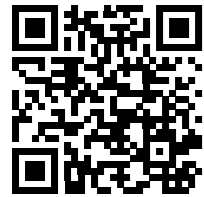
Support

Our complete solution does not only include the necessary hardware and software, but also technical support. Whenever you need help with timing, our team is available to support you. We have a network of offices and distributors worldwide who also always welcome your inquiries.

Online

Our knowledgebase on www.raceresult.com includes extensive tutorials on both hardware and software. This knowledgebase is constantly updated and extended.

We explain important functionality of our RACE RESULT 12 software in webinars and video tutorials to help you dive right in and start learning the software. You can also find detailed instructions and examples for setting up more complex events.

Knowledge Base

Our YouTube-Channel is the "Educational Series" for Timekeepers. We cover different topics about software and hardware technologies and often share a look behind the scenes at RACE RESULT.

Personal

For individual support, contact us at support@raceresult.com or request an online video chat with our team. We will gladly take the time to support you!

Academy

We regularly organize training seminars and timer conferences at different locations around the world. On request, we can also set up personal and customized training to fit your needs at your location.

Sample Tyvek Bib Number, A5, full color

This cover is printed on Tyvek, the material of our RACE RESULT bibs.

©Norbert Wilhelmi

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