

PROFESSIONAL TIMING FOR SPORTING EVENTS

Scope of work

Updated January 2016



OUR TIMING COMPANY

WE LOVE TO TIME YOU

MA:XX Timing

- More than 20 years' experience of sporting events
- ✓ 3 years' membership of the Frankfurt Marathon organising committee
- ✓ Diploma in Sports Science, majoring in IT
- Complete timekeeping and results available in real time
- Automatic cup results of several competitions possible!

The right chip

Every event is different and requires bespoke planning. It is important to choose the right chip for each type of sport.

Passive chip

Passive chips are systems that draw the energy required for communication and analysis of internal processes solely from the field generated by the read/write unit. Passive chips require no power supply of their own but are only able to work over short distances, are a little less accurate (1/10 sec), have a detection rate of 99.5–99.8 percent and are not always waterproof. The best-known variety is the Radio Frequency Identification RFID.

Active chip

We use a range of systems from various manufacturers and will select the perfect system for your event.

All our systems are licensed by the DLV and IAAF in compliance with IWR (International Competition Regulation) 165.24 and are thus suitable for inclusion in record lists. The system has been successfully commissioned and tested by the BA WO, Federal Committee for Competition Organisation at the 20th German 100 km Road Running Championships (11.05.2006). Our systems have already been used around the world at Olympic Games, world championships IRONMAN, national and international competitions and for almost all other kinds of sport, including Formula 1.

Typical uses

Running events Mass sports: cycling Mass sports: cross-country skiing

Typical uses

Cycling & triathlon events
Inline skating races
Speed skating
Motor sports

Security

All data is secured at several levels, e.g. on a laptop, server, decoder and USB stick etc, to prevent data loss.



EXTRACT FROM OUR

CLIENT AND EVENTS LIST

Event ZDF Fernsehgarten Family & Friends Lauf

ZDF Fernsehgarten Triathlon

GARMIN Alps Triathlon

Rems Murr Cup

German Triathlon Championship Braunschweig

Europacup Paracycling

Woogsprint

Kinzigman

MTB Marathon Güntersleben Bike Marathon Siedelsbrunn

Würzburger Swim & Run

German Duathlon Championship Eichelberg

Speedman Olympic Stadium Munich

Client

Heel

DSW Darmstadt

Santander Consumer Bank

City Marketing Braunschweig

Neckar Center Esslingen

BASF

TUS Griesheim

ATSV Braunau

Helios Clinics

RSC Wiesbaden

Decathlon Germany

TSV Gütersleben

Adventure World

RWE

VFL Münster

TSG Mainaschaff

TSV Calw

Agency

GoEvent!

Stöcker & Friends

Visions & Concept

Motion Events

af sportmarketing

And many more...



OUR TECHNOLOGY FOR RUNNING EVENTS

PASSIVE SYSTEMS & CHIPS

System 1

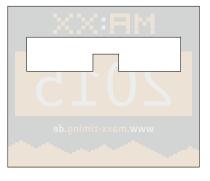
Reusable race number chips

This chip system is integrated into gates (6 patents) of variable widths between 2.50 m and 6 m, which means that there is no danger to the athletes from narrow antenna gates or from tripping over thick mats on the running surface.

Front side of the race number



Reverse of the race number with integrated disposable chip



Overview of a complete system



System 2

Single-use race number chips

This chip system is integrated into ultra-thin hard rubber mats which can be used in a range of widths between 2 m and 8 m. Widths of up to 16 m with two systems can be provide upon request.

Both systems are licensed by the DLV and IAAF in compliance with IWR (Internationale Wettkampf Regel/International Competition Regulation) 165.24 and are thus suitable for inclusion in record list.

A selection of the largest events with the chip system used

Cycling

- ✓ Roc d'Azur FR (14,000 mountain bikers)
- ✓ Time Megève-Mt Blanc FR (2,200 cyclists)

Running events

- ✓ Marseille Cassis Half Marathon, FR (17,000 runners)
- Melbourne Marathon, Australia (25,000 runners)
- City bay fun run, Australia (25,000 runners)
- Run for the Kid, Australia (35,000 runners)
- Abu Dhabi Half Marathon IAAF (15,000 runners)
- Boston Marathon
- Melbourne Marathon
- ✓ Toronto Marathon
- Madrid Marathon
- Cardiff Half Marathon
- The Great Scottish Run (Glasgow)
- ✓ Bregenz Marathon

Ski racing

- Lidingöloppet, Sweden (30,000 competitors)
- Foulée Blanche, FR, Cross-country skiing (4,000 competitors)
- Bieg Piastow, Poland, Cross-country skiing (4,000 competitors)



OUR TECHNOLOGY FOR RUNNING EVENTS

CALCULATION OF DISPOSABLE CHIP SYSTEMS

Main timing system



Backup timing system

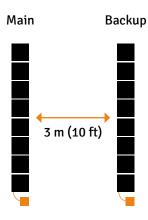


Correct finish configuration with 2 synchronised timing systems!

The systems we provide always consist of two independent timing systems (decoder case). The first timing system is the main system (at the finish-line), the second timing system is a backup system (to the finish line) that we use to guarantee a double read rate for the disposable chips – and to have a full-scale backup system in the event of a technical malfunction!

Almost all other suppliers will configure your finish line with **only one timing system** (decoder case). This looks exactly the same as our setup, but these suppliers are **unable** to provide any results at all if the timing system (decoder case) malfunctions!

2 x 8-mats system with 2 decoders (main & backup)



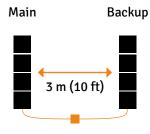
Note

Should never be used at the finish line: data loss can arise as there is no proper backup if the timing system (decoder case) malfunctions!

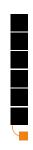
Note

(See above)

2 x 4-mats system with 1 decoder (main & backup for split times)



6-mats system with 1 decoder





OUR TECHNOLOGY FOR RUNNING EVENTS

DISPOSABLE RACE NUMBER INFORMATION



The race numbers are attached to the chest with four safety pins. As soon as you cross the ultra-thin mats at the start, the finish or along the route, these directly transmit your race number and the time to the finish via GSM modem.

Whatever the number of competitors, the length of the course, the duration of the race or the weather – the BibTag Timing System, using MA:XX Timing, is the most efficient and reliable automated timing solution currently available. The timing chip is attached to the reverse of the race number and the competitors simply put their race numbers on as usual. There are no complicated instructions and no deposit, reducing the risk of mistakes and maximising the read rate of the chips. The timing system provides reliable and speedy results – for every runner in every race.

The race number chip is a revolution in timing for all race events. The BibTag System uses only top-quality components and is based on UHF technology. The BibTag System is user-friendly and combines accuracy with the quality of the tried-and-tested MYLAPS ChampionChip system.

It has been tested under all conceivable conditions, including weather, distance, durations, number of competitors, density of competitors and the absorption of sweat onto the chip.

10 reasons for timing with MA:XX Timing

- Fewer instructions required for competitors
- ✓ No chip deposit
- ✓ The thinnest mats with anti-slip features
- Race number chip worn on the chest
- Top quality UHF technology
- Top quality active transponder technology
- Greatest accuracy
- ✓ No power source required & data via GSM / LTE
- Times and results in real time
- Operable in any weather



OUR TECHNOLOGY FOR TRIATHLONS & CYCLING -

ACTIVE SYSTEMS & CHIPS



Ankle chip - ProChip



This waterproof chip/transponder system with no less than 100 percent reliability is used for all events where the greatest accuracy and reliability are crucial, such as cycling, triathlon, downhill slalom, cross-country skiing, skating (speed, short track and inline), swimming and professional elite racing.

This system is currently the most reliable system in the world and has been used at two Olympic Games already. It has been in use for IRONMAN Triathlon events since 2013:

- ✓ the Olympic Games in Beijing 2008
- ✓ the Olympic Games in London 2012









OUR TECHNOLOGY FOR TRIATHLONS & CYCLING -

PROCHIP (ACTIVE CHIP) INFORMATION



The ProChip is a further development of the ChampionChip and is used especially for sports requiring the most accurate and reliable results.

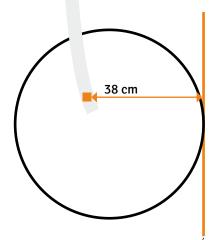
"The ProChip is the only transponder system in the world with which the timing results are as accurate as a photo-finish camera". Combined use with a photo-finish camera is of course an option.

The ProChip is used particularly for triathlons, cycling events, swimming, skating or speed skating. The ProChip is supported by a number of courses (so-called "time points"), clubs and organisers around the world.

Time point use is being extended through Germany from 2014, which means it will be possible to train with ProChips in a range of sports halls, swimming pools, race and cycling tracks. The time points are installed permanently and will always be available for training purposes.

A few clubs have already made ProChip compulsory for licensed competitors in order to guarantee consistent timing quality in races. Others will be following suit soon.

The ProChip can either be tied to the lace of your running shoe or you can attach it to your ankle using the special strap provided. For cycling, it can be attached directly to the racing bike or mountain bike. We can also provide special brackets.

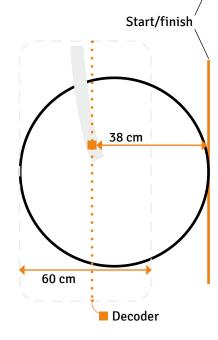


Here's how it works

The ProChip communicates with the system built into the course at the start and finish and optionally at additional points along the route. Every time you pass one of these timing points, your ProChip sends a signal to the contact strip integrated into the course. Using this signal, the system records your time and/or the number of laps.

Your lap times and results can be sent to

- Your account on the internet
- Display boards and monitors
- ✓ Your mobile (from 2016)
- Your Facebook account (from 2016)





TURN SPORT INTO A MEDIA EVENT!

WITH SOCIALSHARE AND MORE...

EVENT-APP

SOCIALSHARE-MODUL

with Facebook, Twitter, E-Mail or SMS

LIVE-TRACKING-MODUL

FEATURES

- Design is individualised for the event or title sponsor
- ✓ Information about the event
- Route description
- Integrated online registration
- Live leaderboards
- Live tracking
- Integrated results
- Option for photo uploads
- Option for video upload
- SocialShares via Facebook and Twitter
- Personalised training plans²

MORE ABOUT THE APP ON THE NEXT PAGES Results

FEATURES

- Real-time updates for each competitor during event via Facebook,
 Twitter, email or SMS
- Option for event-specific bulletins including sponsor presentation

FEATURES

- Online map with live location of competitors
- Live position update
- Live leaderboard
- Anticipated finish time
- Supports exact GPS location³
- Live overview of individual times at each timing gate

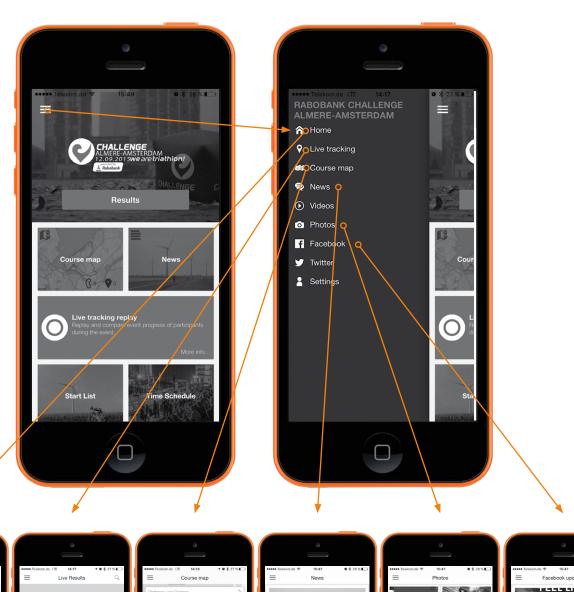


DOWNLOADABLE EVENT-SPECIFIC EVENT-APP

FOR IPHONE AND ANDROID



EVENT-APP – YOUR EVENT JUST GOT EVEN MORE INTERESTING – ALSO FOR YOUR SPONSORS!









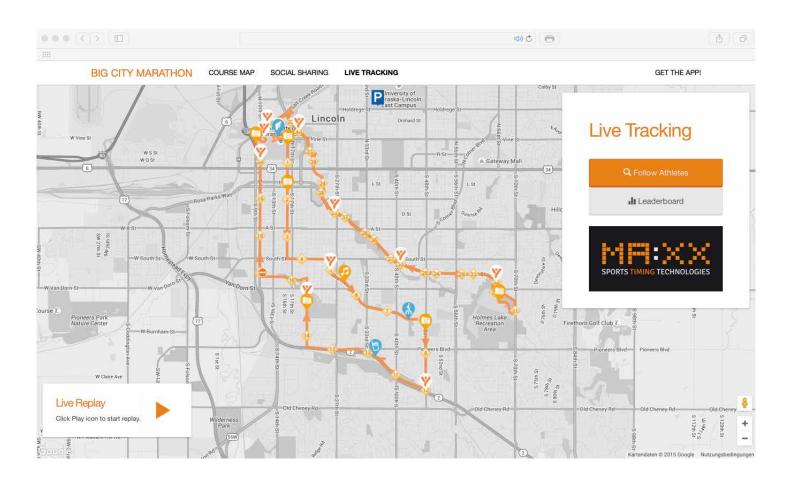


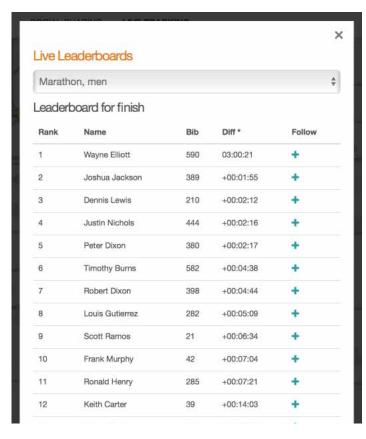


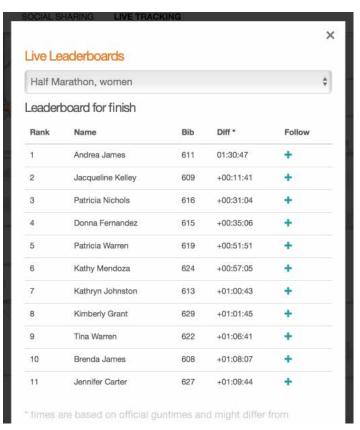




LIVE-TRACKING-MODUL GET YOUR ATHLETS ON TRACK









HIGH PERFORMANCE TECHNOLOGY AT THE

TIME POINT, FOR COMPETITIONS AND MORE

There are no extra charges for the chips for the organiser

Organiser information for active chips

Every event is different and requires bespoke planning. It is important to choose the right chip for each type of sport.

Option 1

The competitor already possesses a ProChip

If a competitor already possesses a ProChip, he/she can enter the globally unique serial number during online registration and use this for the event.

Option 2

The competitor hires the ProChip for an event

If the competitor does not possess a ProChip, he/she can hire one for the event for a small fee; the chip will be issued to him/her by the organisers on the day of the event. We will make arrangements for the hire charge directly with the competitor during online regist-ration.

Any competitor not returning his/her ProChip will have the retail price of 100,00 € (including VAT) charged to his/her account.

Option 3

The competitor uses a FlexAbo flexible subscription for the ProChip (annual)

The competitor would not like to buy a ProChip as he/she is worried about injury or ending his/her career as a competitive athlete in the next few months. In such cases the competitor can make use of the great value Flex-Abo flexible subscription, which makes it possible to use the ProChip for 1, 2 or 5 years for an annual fee.

With option 3 the chip can be used for training purposes at any time point (training course) in the world. Further information on time points at www.time-points.de.



LICENSING FOR

TRANSPONDER TIMING SYSTEMS

LICENSING CERTIFICATE



Licence number	200605100002	
Project	Transponder	Single-use chips /
		multiple use
Project description	Product name	D A G - Bib - SYSTEM
	Туре	Philips RFID-CHIP
	Operating frequency	RFID-SYSTEM 13,56 MHz
	Manufacturer	DAG System –
		Villeurbanne-Lyon – France
	Timing regulation	Temperature-tested quartz
		and radio clock
	Chip attachment	Reverse of race number
	Antenna system	Gate shape and/or set-up up
		to 10 m in width and 2.50 m
		in height
Sales / licensing rights	MA:XX Timing	Alexander Stäudle
		Auf der Aue 2a
		69488 Birkenau
Use	Athletics, cross country and street racing events	
Requirements	Complies with requirements for use in DLV (German Athle-	
	tics Association) territory under international competition	
	rules (Internationale Wettkampf Regeln, IWR) 165.24.	

The project indicated and its technical components have been commissioned and tested by the BA WO, Federal Committee for Competition Organisation at the 20th German 100 km Road Running Championships in cooperation with local competition umpires and Josef Vahle. The test was conducted successfully.

Darmstadt, 23. April 2010 Mainz, 17. April 2010

BA WO, FK Competition Systems & Test conducted by

Federal Committee for Equipment Competition Organisation

Frank O. Hamm
Chair of BA WO
CEO, FK Competition
Systems & Equipment

Klaus Schneider
BA WO staff member





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