

# ALGE

TIMING



THE SPORTS  
TIMING EXPERTS

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**Mobile Timing MT1**



# TIMING DEVICES

## Mobile Timing MT1

The future of timekeeping has begun with the Mobile Time MT1 timing device. The limits are being redefined!

Forget kilometer-long cables and problems with the range of the radio system. With the MT1, the measuring points can be as far apart as you want.

The accuracy of the GPS synchronization enables multiple MT1 timing devices to be used for timing at different locations (e.g. one MT1 for the start and one MT1 for the finish). That means a time measurement without annoying cable connections. Large distances between start and finish are possible without any effort.

The MT1 has an internal cellular data modem with a built-in SIM card. This SIM card supports practically every provider around the world. No matter if you make an event or training in another country. You can manage it!

The server is configured by the timekeeper before the race or training and thus the track position is assigned to each MT1. The

incoming times are processed in the server and the results are displayed live on the Internet. This means that anyone with internet access can follow the race or training on their mobile phone, tablet or PC.

Up to two pulse devices can be used on the MT1 to be connected (e.g. startgates, photocells, manual buttons, etc.).

An internal GPS module ensures the precise synchronization of the time of day. The temperature-compensated quartz is automatically adjusted during operation. This balances out temperature changes and aging of the quartz.

It is also possible to synchronize other timing devices through an impulse.

The MT1 can also be used offline. The times can then be transmitted to the PC via the USB interface.

### Advantages of the Mobile Timing MT1

- Highly accurate, temperature-compensated crystal oscillator with additional constant recalibration via GPS
- Integrated GPS receiver for high-precision synchronization
- Integrated cellular data modem with built-in SIM card
- Data transfer with worldwide roaming
- No commitment to a specific cellular provider. Any available cellular network can be used
- Two timing channels (e.g. for speed measurement)
- USB socket for data transfer to a PC or for charging the MT1
- Keyboard for entering the start number
- Memo function for entering the start number at a later date when the finish line is tight
- Storage space for up to 7000 times
- Built-in Li-Ion battery guarantees operation for up to 24 hours
- Identification by adjustable name
- Super light, small and handy
- High-precision synchronization output for other timing devices
- With the printer P6-USB it is possible to protocol all timestamps



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### The MT1 timing system

You can register as a timekeeper for free on the [alge-results.com](https://alge-results.com) platform. There you can create competitions, manage participants and their devices. Timekeeping is also managed here.

When creating a competition, you decide whether the participants register online for their competition on [alge-results.com](https://alge-results.com) or whether the registration is carried out by the timer

The timing setup can be adjusted for each competition. There you assign the corresponding function to the respective device and timing channel.

With the help of a PC program (Time.NET Connector), the participant data and times can be transferred to the PC and imported into the evaluation software.

So-called "timing points (TP)" are necessary for data transfer and the creation of competitions. 2000 such timing points are included with the purchase of each device.

### Timing Points Packages

Timing Points Package Bronze: 5,000 TP

Timing Points Package Silver: 10,000 TP

Timing Points Package Gold: 20,000 TP

The screenshot shows the ALGE-RESULTS website interface for a competition titled "5. Int. Steinbock Berg Klein Slalom 2020, SAMSTAG". It features a navigation menu with "OVERVIEW", "COMPETITORS", "HEATS", and "LIVE". Below the menu, there are four race results cards for "1. Rennen", "2. Rennen", "3. Rennen", and "4. Rennen", all marked as "FINISHED". The "4. Rennen" card is highlighted in blue. Below the race cards, there is a "Live" section with a table of participants. The table has columns for Start Number, First Name, Last Name, Nation, Fahrzeug, Klasse, Run Time, Diff / Speed, and Rank. The "Ranking" section below shows a list of participants with their respective ranks, start numbers, names, nations, vehicles, classes, and total times.

Rank	Start Number	First Name	Last Name	Nation	Fahrzeug	Klasse	Section 1 Time	Run Time	Diff	Total Time
1	348	Alexander	Häuser	Italy	Golf 7 Syncro G60	H1 Y	3:06	35:10		3:26.61
2	44	Dietmar	Häcker	Switzerland	BMW X0M	F+3000	6:24	38:03	+3:23	3:22.09
3	42	Martin	Schöbel	Germany	Ford Focus RS	F+3000	5:04	38:64	+3:54	3:13.67
4	46	Fabian	Rüegg	Switzerland	Suzuki Impreza	F+3000	6:48	41:05	+4:55	3:25.46



### alge-results.com Plattform

The timing data are transferred from the MT1 to the [alge-results.com](https://alge-results.com) server and saved there.

The spectators can follow the results live at any time. The timekeeper can check the results on the same website and make any necessary corrections and settings.

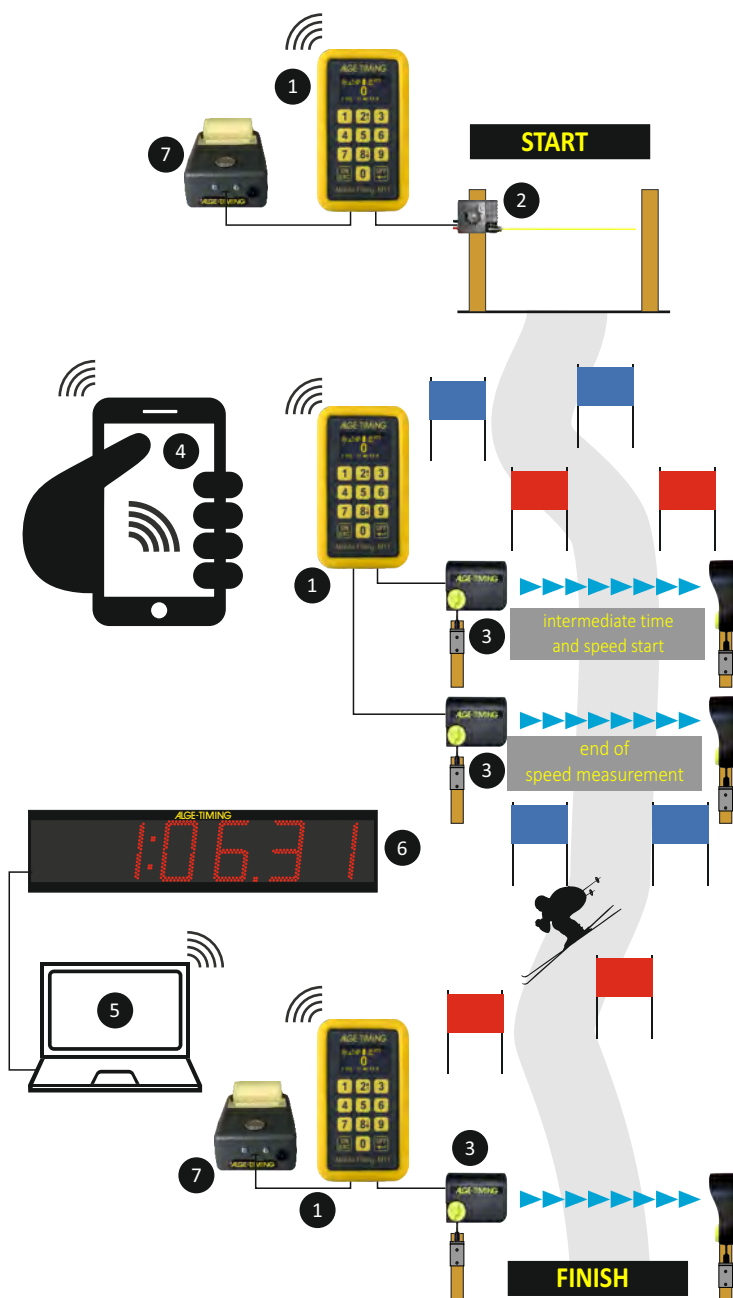
Extensive settings are possible. For example, a race cannot be held publicly. The displayed participant data can also be configured. It is also possible to upload special evaluations as a document.

The data is stored in a European data center in accordance with GDPR.



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## Mobile Timing MT1



### Alpine Skiing or Mountainbike Downhill

This system can be designed for use in training and racing. It can be also for many different sports like for Alpine skiing, mountainbike downhill, uphill races, white water canoe, etc..

Enter the bib of a competitor in the MT1 at the start. No further bib has to be keyed in at the other MT1 devices if the configuration is prepared correct.

Invalid impulses can be automatically eliminated by defining permissible time windows.

Every MT1 has two timing channels, for example, speed measurement can be carried out with just one device.

Several runs are created for ski training. If a participant has already completed a run, the new result will be written into the next run. Any number of passes can be measured.

- 1 Mobile Timing MT1
- 2 startgate STSn1A or photocell
- 3 photocell with reflector and cable
- 4 mobile device for Live Results
- 5 PC, mobile phone or tablet for timing
- 6 display board D-LINE
- 7 printer P6-USB

### MT1 Time.NET Connector

The PC software "MT1 Time.NET Connector" enables competitor lists (e.g. from Excel) to be loaded onto the server. The timing impulses can be taken over directly into the ALGE-TIMING evaluation program TimeNET2 or other evaluation software.

The times can also be downloaded afterwards from the alge-results-server. An export of the data to an Excel sheet is also possible.

Start Number	First Name	Last Name	Gender	Date of Birth	Nation	Club	Team
1	Jiri	STRACHOVA	Male	1991	CZE	Prag	
2	Pierre	FERREBENO	Male	2001	SUI	Bern	
3	Stig	BORSSEN	Male	1993	SWE	Stockholm	
4	Leonardo	MELLE	Male	1997	ITA	Rom	
5	David	GESLOT	Male	2000	FRA	Lyon	
7	Peter	KIRCHGASSER	Male	1998	AUT	Kitzbühel	
9	Klaus	GISIN	Male	1996	SUI	St. Moritz	
10	Milton	MOLTZAN	Male	1988	USA	Aspen	
11	Manuel	BAROZ	Male	1999	FRA	Grenoble	
15	Paolo	CURTONI	Male	1995	ITA	Groeden	

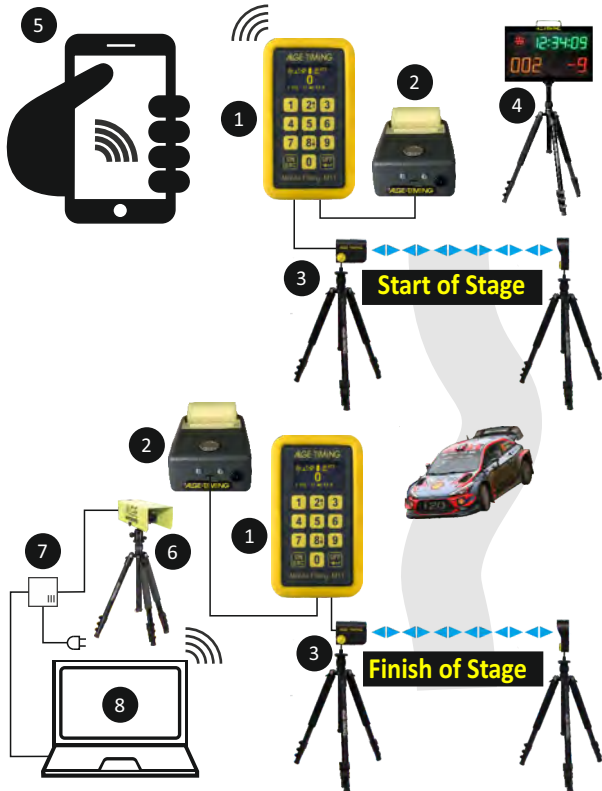


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## Mobile Timing MT1



### Rally or Uphill Races



In stage races, the transfer of the start and finish times to the timing location is usually a problem because of the great distances.

With the MT1 this problem is a thing of the past. The start and finish times of all stages are collected and evaluated on the [alge-results.com](http://alge-results.com) platform.

Enter the start number for MT1 at the start and finish. These two devices are assigned to the stage in the competition settings. Further MT1 devices can be assigned to the next stage. Once a stage has been completed, the devices used there can be used for the next stage.

Any number of people can follow the results live on the Internet.

To display a start interval, we recommend using an ASC3 start clock. An IDCam can optionally be used for finish-monitoring.

The same structure can also be used for other sports such as white water canoeing, road bike races, orienteering runs, natural track tobogganing, soap box races or similar sports.

1 Mobile Timing MT1

2 Printer P6-USB

3 Photocell PR1a-RT

4 Start Clock ASC3

5 Mobile Device for Live Results

6 Camera for finish monitoring IDCam

7 Power over Ethernet POE+

8 PC for Timing



## Did you know?



Conventional solutions are tied to a specific cellular provider. External cellular networks are therefore not available. However, if this network is not available, no data can be transmitted. This can be particularly problematic in border regions.

The SIM card built into the MT1 is not dependent on a specific cellular network. This uses worldwide roaming. Consequently every available mobile network can be used. This means operational reliability even in particularly remote or poorly developed regions.

The synchronization output of the MT1 can be used to synchronize other timing devices such as a TIMY3 WP with high accuracy.

The MT1 can also be used offline. The USB interface simulates a virtual serial COM port on the PC. The timing data can be read out by all common evaluation programs and evaluated accordingly. Together with Time.NET2 the cheapest way of measuring events.



# TIMING DEVICES

## Mobile Timing MT1

The MT1 has a high-contrast display with which the most important functions are always in view.

- GPS satellite reception
- Cellular reception
- USB Connection
- Battery charge level
- Charging process
- GPS synchronization



### One device - many functions

- Standard mode with an extra large display for the start number
- Scroll mode: all times at a glance
- Memo mode: Subsequent entry of the start number after crossing the finish line
- Synchronization output: With the high-precision pulse output, you can synchronize other devices to an exact time.
- USB mode: The times can also be transferred to the evaluation via the USB interface.

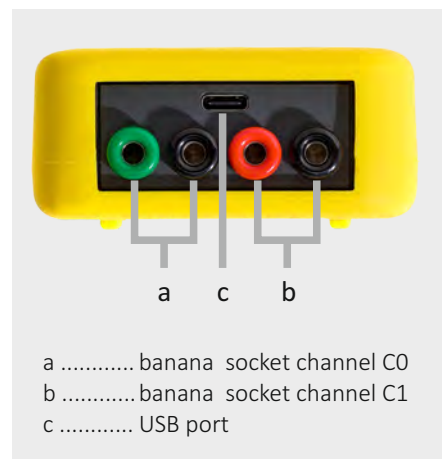
### Scope of delivery for one MT1 device

- 1 Mobile Timing MT1
- 1 charging device
- 1 USB-C cable
- 2.000 Timing Points



### Technical data

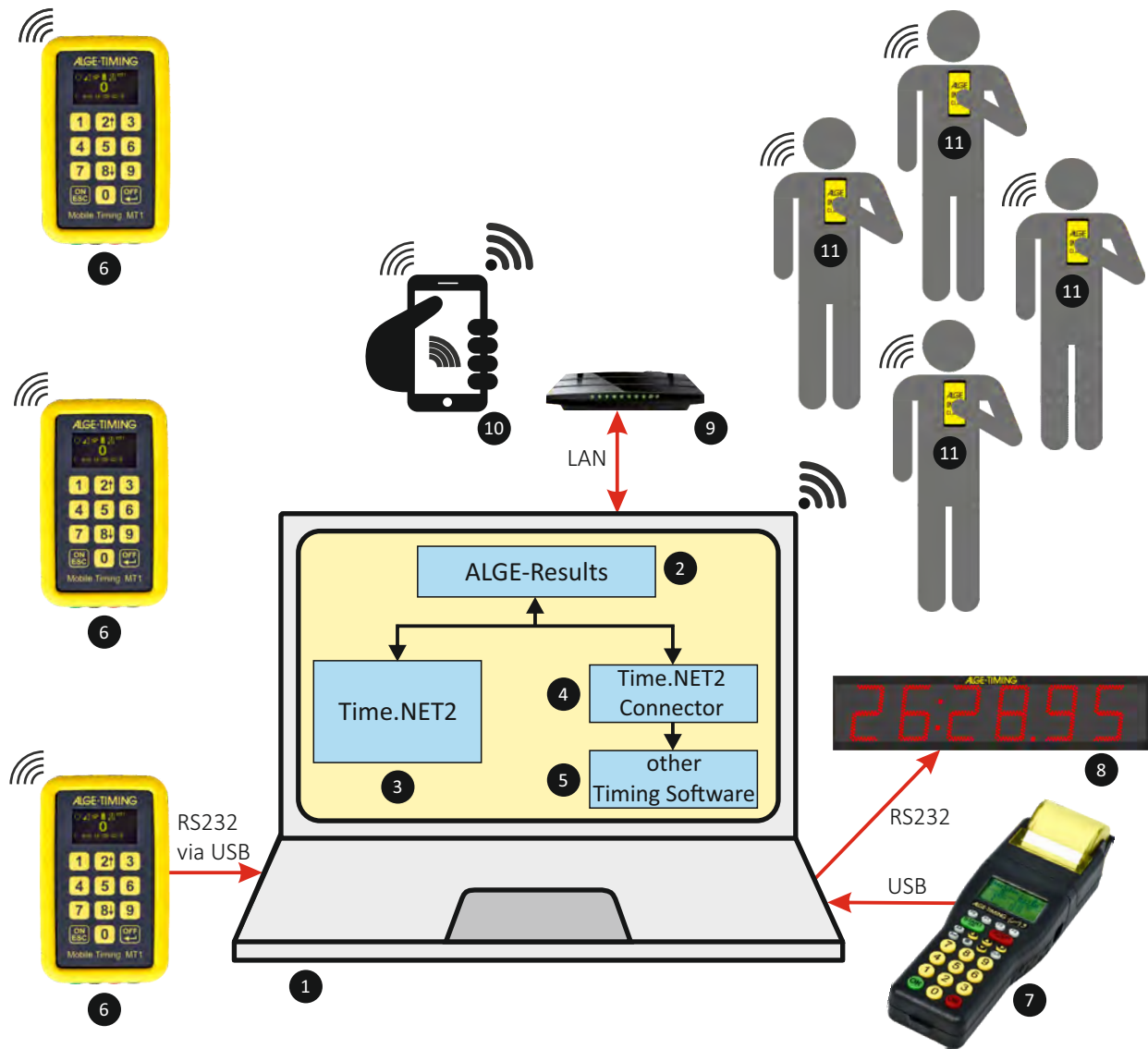
Measuring range: 23 hours 59 minutes, 59,9999 Seconds  
 Time reference: self-calibrating TCXO crystal  
 Measurement accuracy: 1/100.000 Seconds  
 operating temperature: -20°C to +65°C.  
 Electronics: Integrated GPS receiver and integrated cellular modem without external antennas  
 Memory: 7,000 times with start numbers, times are permanently saved.  
 Display: OLED, 37 x 20 mm, resolution 128 x 64 Pixel  
 Synchronization: external, GPS or GSM  
 Operation: Splash-proof membrane keyboard with 12 keys  
 Timing channels: 2 channels with banana sockets  
 Power supply: internal: Li-Ion battery, external via USB-C connection  
 Operation time (battery): 24 hours at + 25°C with one Impulse per minute  
 14 hours at - 20°C with one Impulse per minute  
 Charging time1: app. 2,5 hours at + 25°C.  
 Roaming: world wide, not Provider depended  
 Housing: Splash-proof plastic housing with removable, shock-absorbing silicone cover  
 Dimensions: 74 x 34 x 22 mm  
 Weight: 235 g



- a ..... banana socket channel C0
- b ..... banana socket channel C1
- c ..... USB port



### Connection possibilities



- |                                 |                                |                                 |
|---------------------------------|--------------------------------|---------------------------------|
| 1 PC with Software              | 6 Mobil Timing MT1             | 11 spectators with mobile phone |
| 2 web-program ALGE-Results      | 7 timing device Timy3          | celluar data                    |
| 3 software „Time.NET2“          | 8 display board D-LINE or GAZ5 | WLAN                            |
| 4 software „Time.NET2 Conector“ | 9 LAN router                   |                                 |
| 5 other timing software         | 10 mobile phone or tablet      |                                 |

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