

Decoder 5000S

The RACE RESULT Decoder receives the signals from the transponders, calculates the exact finish time and provides the data to the scoring software like RACE RESULT 12 in real time. The system runs independently from your computer and from your power supply.

Timing System for

- Inline skating

- Running - 8-10h (passive) / 24h (active) internal battery

- Online firmware update

Triathlon
 MTB
 Cycling
 Precise, synchronized GPS time
 Integrated 4G/LTE module
 Easy setup and handling

- Skiing

Endless Application Options in Combination with RACE RESULT 12 Software

- Net time timing
- Lap counting and lap timing
- Team scores and age group results
- Multiple distances on the same course at the same time
- Multiple timing points
- Multiple decoders per timing point
- Real time presentation of results
- Simultaneous work via internet or local network



Safety & Conditions Decoder	
Protection class with closed cover	IP54
Safety norm	EN60950
Regulatory conformity	CE, RoHS, FCC
Relative humidity	Max. 90% non-condensing
Temperature range	-20°C to 50°C

Decoder Weight	Decoder Pack-Size
12.5kg	36 x 26 x 45cm

LTE/4G/3G/2G Module	
29-Band 4G/ LTE/3G/2G Module	FDD: B1/B2/B3/B4/ B5/B7/B8/B12/B13/ B18/ B19/B20/B26/B28 TDD:B38/B39/B40/ B41 WCDMA: B1/B2/B4/ B5/B8/B6/B19 GSM: B2/B3/B5/B8
Antenna	Internal External SMA (optional)
SIM card	Standard

Power & Battery Decoder	
AC power supply	110V - 230V 50 - 60Hz (2 A fuse)
-	50 - 60HZ (Z A Tuse)
DC power supply	12V - 14V
	2A (when battery
	full)
Battery flight safety	15Ah (Pb)
	IATA - A48/A67
Charging time	4h (switched off)
	7h (running)
Power consumption	26W (battery full)
	60W (charging)
Battery life (passive)	8 - 10h ¹⁾
Battery life (active)	24h ¹⁾

¹⁾ Battery life can be reduced by usage of LTE/4G (-10 %), low temperature (-25 % @ 0°C/32°F) and battery age.

Ports & Features	
Internal GPS	uBlox 50 channel receiver, 30 seconds cold start
2 x LAN	Dual 100MBit / 10MBit lan port. auto crossover detection. Switched internally for loop through to next device.
USB	Thumb drive for backup
Antenna ports	8 x BNC
Feature port	Supplies 5V (500mA), 12V (500mA) output, start gun, photo sensor
Audio beep	3.5mm headphone plug (mono)

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The Decoder 5000S is not produced anymore.

For the latest documents, please visit: https://www.raceresult.com/fw/support/documents

Passive Antenna

The passive UHF antenna can be used with all passive RACE RESULT transponders. Standard length is 4.8 m / 16 ft (antenna every 60 cm / 2 ft), extendable to 6 m / 20 ft or 8.4 m / 26 ft.

Passive Antenna Features

Easy setup in just a few seconds
 Simply unfold the antenna and connect it to the decoder.

- Easy to ship

The 4.8 meter antenna weighs 25.9kg / 57lbs and can be shipped via regular mail.

- Flat design

The height of only 2cm ensures excellent safety for all kinds of events.

- Incredibly durable

The antenna can be passed over by cars or even trucks.

- German engineering inside

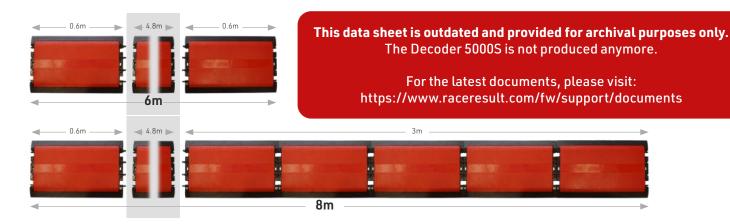
Application optimized antennas guarantee the best detection rates.

- 6m or 8m Extension Kit

Two or six additional elements to extend the antenna to 6m / 20ft or 8.4m / 26ft.



PATENTE



Antenna & Transponder (passive)	
Transponder frequency	866MHz (EU) 903-927MHz (US) 920-925MHz (AUS)
TX power	up to 36dBm EIRP radiated and 30dBm conducted
Track width	4.8m 6m or 8m with Extension Kit
Read range ¹⁾	4m
Detection rate read rate	> 99.8% ²⁾ > 2,500chips/min
Maximum transponder speed 3)	40km/h 25mph
Timing accuracy 4)	200ms

	Weight	Size
4.8m antenna	25.3kg	Single element: 58 x 36.5 x 2cm
	25.5kg	Total: 465 x 36.5 x 2cm
	(incl. packaging)	Cable length: 110cm
		Pack size: 60 x 40 x 20cm
6m Extension Kit	6.2kg	60 x 37 x 5cm
8m Extension Kit	18.6kg	60 x 37 x 15cm
Antenna height		2cm
Antenna width		29cm

- 1) Transponders are detected multiple times while crossing the antenna. The detection with the highest signal strength right above the antenna is used for timing.
- 2) With transponders attached correctly and with redundancy (two transponders on the bib or backup timing line).
- 3) Higher speeds are possible, detection rate may be lower.
- 4) Use GPS time to get most accurate results.



High Gain Antenna

For Barrier-Free Finish Lines

Perfect for special purposes like mass road cycling events. With high signal power these antennas provide long range and high precision. The passive transponder is usually put to the seatpost sticker participants have attached to their bike.

Please note: Using the High Gain UHF Antenna you need to apply to legal regulations and the correct setup is very important to achieve good results!

Features	
Frequency Range	865-868MHz (EU) 900-930MHz (US)
Gain	13dBi (min)
Polarization	Linear (Vertical or Horizontal)
Dimensions (LxWxD)	450 x 450 x 36mm
Weight	3kg (max)
Connector	N-Type female

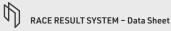


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The tripod is sold separately in the shop.



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