## Rechargeable/battery Powered WiFi RFID

This is a very portable and easy to use RFID reader. We have made it battery powered and wireless. Physical dimensions:

- 29cm x 29cm x 5.5cm
- 2.2kg



Note - the tripod is not included. This is a suitable tripod option

## Technical details:

- Long Range RFID Integrated Reader (Model CL7206B5A)
- UHF 920-925 MHz frequency range
- 100 tags per second read rate
- Read range up to 6m (minimum human contact distance 45cm\*)
- WiFi communication via Timing Solutions Timing Hub
- Battery 3.7v 20 Ah LiPo recharge 5hr of racing capacity (included in purchase)
- Charger 12v 5A (included in purchase)

\*RF Safety (People in the proximity of RF transmitters) - make sure you have at least 45 cm between the reader and athletes.

How to use this hardware:

**Note**: make sure you have the latest Timing Hub firmware v1.29 and RaceHQ 3.21.92 - <u>latest</u> 1. Startup RaceHQ with your timing hub connected

RaceHQ Setup		? ? ¢ — 🗆 X
RaceHQ Setup	ored for after reading Digital Clock: Serial Port Select Port Clock behaviour @ Mirror race clock Format ○ HetrMisS @ Mirssiss Brightness @ Mirssiss Brig	? ? Q — D X Go Race
Senia Horn Select Port Senia Horn 2 Select Port Senia Port 2 Select Port RFID Module R2000 Anterna Setup 1 2 3 4	Read only tags in member list     Read only tags starting with:     3000     Only allow one time per checkpoint     Click here to download RFID reader drivers	
Start Devices:	TS RFID Units:       2       TS Clock Unit:         On tag read:       Image: Clock behaviour @ Wirror race dock         Ø Beep       Stop on winning i         Ø Flash       Format () #H-MM-ISS         Ø MM-ISSI-SS	Version 3.21.92

2. You have the option to say how many readers you want to be connected to the Finish Line. You also get to say if you want the readers to Beep each time the reader reads a tag and or Flash the LED on the back of the reader

RaceHQ Setup	? 🤊 O — 🗆 🗙
))) RFID ~	Go Race
10 seconds $\sim$ Time an RFID tag will be ignored for after reading	Use external start line
RFID Scanner       Digital Clock         Serial Port       Select Port         Clock behaviour       Mirror race dock         Stop on winning time         Format       HH:MM:SS IS         Brightness       Set         Low       High         Serial Port       Select Port         Serial Port       Select Port         RFID Long Range Scanner       Second all tags         Serial Port       Select Port	Number of checkpoints used: 0 V PC RFID
Serial Port 3 Select Port	
RFID Module R2000       ?       Only allow one time per checkpoint         Antenna Setup       ?       Click here to download RFID reader drivers         1       2       3       4	
TS RFID Units:       2         On tag read:       ☑         ☑ Beep       ☑         ☑ Flash       ☑	TS Clock Unit. Clock behaviour @ Mirror race clock @ Stop on winning Format @ HH:MM:SS @ MM:SS:SS

3. The checkpoint section lets you select the number of units you want to be connected and also to give them a name, this name will be used in the web upload and the saved events area too.

10 seconds	✓ Time an RFID tag will	be ignored	for after reading		Use external start line
	her				_
			Serial Port	Select Port	
			Clock behaviour	Mirror race clock	Number of checkpoints used: 3 V
				Stop on winning time	
			Format	OHH:MM:SS  MM:SS:SS	
			Brightness	Low High	2
RFID Long	Range Scanner		Tag Reading		3
Serial Port	select Port	~ 🔴	Read all tags		
Serial Port 2	2 Select Port	~ •	O Read only tags in member list		
Serial Port 3	Select Port	~ •	O Read only tags starting with:		
RFID Module	R2000	~ ?	Only allow one time per checkpo	int	
Anten	na Setup		Click here to download RFID reader of	rivers	
	2 3	4			
				TS RFID Units: 2 V	TS Clock Unit:
				On tag read:	Clock behaviour  Mirror race clock
				Beep	Stop on winning '
				On tag read:	Clock behaviour   Mirror race dock  Stop on winning

4. When you turn the WiFi RFID reader it will appear by default in the first place on the Finish line units. If you put the mouse on it you will see reception and battery etc

RaceHQ Setup N) RFID ~	after reading	?
RFID Scanner	Digital Clock Serial Port Select Port Clock behaviour Stop on winning time Format HH:MM:SS @ MM:SS:SS Brightness brightness Set	Number of checkpoints used: 3 V PC RFID 1 2
RFID Long Range Scanner   Serial Port   Serial Port 2   Serial Port 3   Select Port   Serial Port 3   Select Port   Port 3   Select Port   Port 3   Select Port   Port 4   Serial Port 5   Select Port   Port 6   Serial Port 7   Select Port   Port 8   Port 9   Port	Tag Reading         Read all tags         Read only tags in member list         Read only tags starting with:         3000         Only allow one time per checkpoint         ck here to download RFID reader drivers         Firmware Version: V1.0?         Reception:       77%         Battery:       97%         Status:       Con	Reader3655
Start Devices:	<i>TS RF voms.</i> 2 On tag read: ☑ Beep ☑ Flash	Clock Unit: Clock behaviour  Mirror race dock Stop on winning ' Format O HH:MM:SS MM:SS:SS

5. If you want to use that device in the checkpoint and not the finish line, then click on the green blob and drag it to the checkpoint you want it to be

RaceHQ Setup	? 🤏 O — 🗆 🗙
))) RFID ~	Go Race
10 seconds 🗸 Time an RFID tag will be ignored for after reading	Use external start line
Serial Port Select Port 🗸 🔶	Number of checkpoints used: 3 V
Clock behaviour	PC RFID
Stop on winning time	
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RFID Long Range Scanner Tag Reading	
Serial Port Select Port	
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RFID Module R2000 V ? Only allow one time per checkpoint	
Antenna Setup Click here to download RFID reader drivers	1
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TS DETD Units	TS Clock Unit
	Stop on winning
⊠ Jeep ∭Flash	Format O HH:MM:SS
Start Devices: Trigger Device:	MM:SS:SS
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	Version 3.21.92

6. Once the green status blob is in the checkpoint spot, you should give it a name

RaceHQ Setup		? 🗢 🗘 — 🗆 🗙
))) RFID ~		Go Race
10 seconds V Time an RFID tag will be ignored for after	er reading	Use external start line
RFID Scanner	Digital Clock	
	Serial Port Select Port 🗸 🔶	umber of checknoints used: 3
	Clock behaviour  Mirror race dock Stop on winning time Format HIH:MM:SS  MM:SS:SS Brightness	RFID     1     Swim Exit
	Beading	3
Serial Port Select Port	Read all tags	
Serial Port 2 Select Port	Read only tags in member list	
Serial Port 3 Select Port	Read only tags starting with:	
RFID Module R2000 V ?	Only allow one time per checkpoint	
Antenna Setup	ere to download RFID reader drivers	
		5
Start Devices:	TS RFID Units:       2       ✓         On tag read:       ☑       ☑         ☑ Beep       ☑       ☑         ☑ Flash       ☑       ☑	TS Clock Unit. Clock behaviour  Mirror race dock Stop on winning ' Format HH:MM:SS MM:SS:SS
		Version 3.21.92

7. When you go to the race screen, you will see the status on the screen here

(	Ro	<b>KeHQ</b> RFID - Ra	ace-03	0	Setup	🥸 🗗		STREET	3	• • -	
101				Y Select ev	ent, gender a	nd age					
			Even	t Setup	Mix ~	Mix ~			Star	00:00	:00.0
				r 1		T.	7 7	Co	omments	Recalculat	e Places
	#	Athlete/Team	Age	Gender	Event	Course	Category	Lap	Lap Time	Wave Time	Race Ti
	<			Filter by	Source: 🔽 🗚			P3			>
		Ignore		Checkpoint	Status:						
	_			Lickpoint						brought in	a vou by
										Version 3.21.92	Siming

## 8. In your race screen, you can see the Source and Type on the screen like this

RaceHQ RFID - Race-0	30: (m)	🔄 🎒 🖽 🧮 🚇 🛷 🗏 ? 🤏 o — 🗆						
	$\Psi$ Select event, gender an	d age						
			Eve	ent Setup	Mix ~ Mix ~	Trigger	Rerun	Stop 00:00:2
# Athlata/Team Age	Condor Evont	Course Category	Lan	Lan Timo	Wayo Timo		16 Comments	Recalculate Pl
* Adhete/Team Age	Gender	course category		13 71	13 71	13.71	Swim Exit Antenna?	<u>Edit Columns</u>
4 e2000017261100670530e2			1	13.74	13.74	13.74	Swim Exit Antenna2	
5 e2000017261100610540e3			1	13.84	13.84	13.84	Swim Exit Antenna2	
6 e2000017261100660530e2			1	13.90	13.90	13.90	Swim Exit Antenna2	
7 e2000017261100790530e2			1	13.93	13.93	13.93	Swim Exit Antenna2	
8 3000300833b2ddd9014001			1	14.03	14.03	14.03	Swim Exit Antenna2	
9 e2000017261101190530e2			1	14.17	14.17	14.17	Swim Exit Antenna2	
0 e2000017261100980530e2			1	14.25	14.25	14.25	Swim Exit Antenna2	
1 e2000017261100690540e3			1	14.28	14.28	14.28	Swim Exit Antenna2	
2 e2000017261101360530e2			1	14.36	14.36	14.36	Swim Exit Antenna2	
3 e2000017261101060530e2			1	14.47	14.47	14.47	Swim Exit Antenna2	
4 e2000017261100800530e2			1	14.66	14.66	14.66	Swim Exit Antenna2	
15 e2000017261100560530e2			1	14.82	14.82	14.82	Swim Exit Antenna2	
16 3000300833b2ddd9014036			1	15.60	15.60	15.60	Swim Exit Antenna2	
Ignore	Filter by Source: 🗹 All	Finish CP1 CP2 CP	3			1		