



# TROPHY SPEC RACE RAMSEN

## Information and regulations

*Latest update: 26.2.2022*

### Info

Dear Pilots

In this document you will find information about the rules, location, catering and more. Please take the time to carefully read through this document. For any questions or last minute updates, please ask any member of FPV Ramsen Verein or check;

[www.fpvramsen.ch](http://www.fpvramsen.ch)

Looking forward to welcome you soon!

**FPV RAMSEN TEAM**

## Date

See event description on facebook.  
(in case of bad weather the race will be cancelled without substitution)

## Location

The race will take place at Reitplatz Ramsen, Kanton Schaffhausen.  
<https://bit.ly/33GRPDK>

Tables, chairs, electricity, grill, fridgerator and toilet will be provided.

**Parking:** There is free parking available at  
<https://bit.ly/3s6W1pB>

**Overnight:** If you are looking for an overnight stay, we recommend this nearby  
<https://bit.ly/325PGhL>

## Food and Drinks

Please bring your own food and drinks. Gas grill will be up and running the whole day.

## Time Table

09:00 - 10:00 Arrival / pilot registration / gear check  
10:00 - 10:30 Briefing and walking the track  
10:45 - 12:00 Qualifying Pro and Sports class  
12:00 - 13:00 Mandatory lunch break  
13:00 - 16:15 Qualifying Pro and Sports class  
16:30 - 19:15 Finals Pro and Sports class  
19:30 Prize giving and ceremony

## Registration and gear check

Be ready to register at 09:00. A maximum of 3 quads per pilot is allowed.

We will be checking;

- VTX power (25mw maximum)
- RC Link power TBS Crossfire, Ghost, Tracer, Express LRS, and other systems (100mw maximum)
- Throttle cut

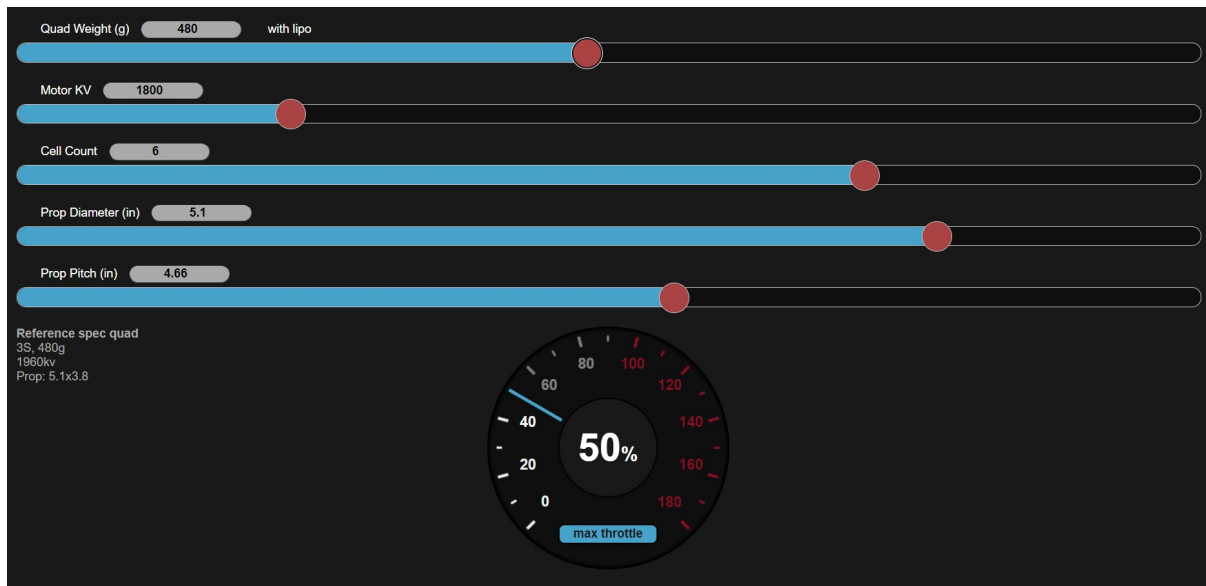
If you are using a different quad then tested and marked you will be disqualified.

Every pilot needs to have insurance to fly. You must provide proof of your model flying insurance.

We will calculate a specific throttle limit for your quad in regards of the weight and motor KV.

You can find the calculator here:

<http://texasdronechamps.com/spec/>



Also see the quadcopter requirements below.

## Quadcopter requirements

- **Frame dimensions:** maximum 300mm
- **Props:** maximum 6"
- **Batteries:** Maximum 6s HV. It is not permitted to charge above 4.25v per cell
- **VTX:** Analog and HD Zero; maximum 25mw. Must support raceband frequencies
- **Timing:** We will be using Immersion LapRF VTX timing
- **LEDS:** Not mandatory but is always nice
- **RC Link:** You can use any radio link (max 100mw)
- **Video Format:** Analog cams must be set to NTSC
- **Insurance:** Every pilot needs to have insurance to fly. You must provide proof of your model flying insurance.

## Race Flying Format

### Practice and Qualifying

There are max 32 pilots broken down into 8 heats of 4 pilots. Three laps will be flown in a time of max 2 minutes plus the time used to finish the last lap. There will be approximately 8 rounds of qualifying, depends how fast we get along with the heats. Your qualifying time is the total amount of the best 3 consecutive laps.

## Race pro- and sports class

These is our special spec race format:

- the 3 fastest lap of a heat will be considered for final rankings
- the 8 fastest pilot will fly in the pro class and fight in double ko for respective class victory
- pilots ranked 9- 24 will fly in sports class and fight in double ko for respective class victory
- there will be two rankings and winners, pro- and sports class category

Allotment in heats, times, rankings and the livestream will be available on Twitch <https://www.twitch.tv/fpvramsen>

## Timing system

We will be using the Immersion RC LapRF 8-way. Please ensure that you have a good quality VTX and antenna putting out the correct power (25mw) in the correct band (Raceband 1, 3, 6 or 8), as allocated to you by the race officials.

## Race Rules/Infringements & Event Protocol

- **Qualifying will be strict. A heat will last three minutes and there will be a two minute turnover time. If you have technical difficulties and are not able to lift off at the start of the race, you must stay seated in your allocated pilot seat until the heat is finished.**
- Every participating pilot will be a spotter. Designated spotters will be announced before and during finals only.
- Please land your aircraft in the designated landing zone as quickly and safely as possible after your race is over so that we can prepare for the next race.
- Please retrieve your aircraft after each race and power it off as quickly as possible.
- Competitors that do not return for a missed obstacle or gate will be disqualified from that specific heat.
- Start: a beep sound will chime between 0.5s – 5s randomly chosen by the timing system after the computer announced it. Competitors who gain advantage through a jumped start must forfeit that advantage immediately by waiting off the racing line and rejoining the race once all other competitors have taken off (and only when it is safe to do so).
- Turtle mode and launch control are allowed, given that competitors are not obstructed and that your maneuver will not damage the track or cabling.
- Flying outside of the netting or outside of the race area will result in an immediate disqualification from the competition.
- Failure to comply with safety rules on or off the track will result in immediate disqualification.
- In case of a dispute the pilots have the responsibility to provide their own DVR footage to the Race Director.

- We may spot-check VTX power output. Any competitor found to be transmitting at a power level of more than 25mw will be disqualified.
- Any competitor found to be bleeding over to another competitor's video will be asked to check their power output, and may have to forfeit their round.
- Please familiarize yourself with setting your VTX to any of the race frequencies and expect to be asked to change between each stage. Failure to be on the correct frequency at the correct time means you will not fly in that heat.
- DO NOT power up any video transmitters unless you are racing. First violation will result in a warning, second in disqualification from the competition
- Any competitor found causing another competitor to lose video through negligence or willful sabotage (including use of the wrong frequency or exceeding power output) will be disqualified from the competition.
- Rerun will be granted under following circumstances;
  - during race mode only. There are NO reruns during qualification.
  - mid-air collisions before the first gate
  - person still on the track
  - track not setup correctly for the first lap (gate down for example)
  - any reason the racedirector decides to.
- In case of video issues; we need to see corresponding evidence on your recording equipment (DVR) before we can consider a re-run.
- During the final we will allow a maximum of 1 re-run per race due to mid air collision before the first gate.
- The track is strictly off-limits unless a member of race control explicitly declares it safe to enter.
- Please charge your batteries carefully and follow all safety precautions.
- Please respect the pit areas, keep it clean and tidy, do not take up too much space.
- Do not leave any waste anywhere, there will be enough bins around.

## Contacts

President	Daniel Billetter (Billi)	<a href="mailto:billi_@gmx.ch">billi_@gmx.ch</a>
Vice President	Michael Isler (Swift)	<a href="mailto:swiftfpv@gmx.ch">swiftfpv@gmx.ch</a>
Racedirector	Michael Husarik (MikeD)	<a href="mailto:Ajmykay@yahoo.com">Ajmykay@yahoo.com</a>

In case of questions: <https://fpvramsen.ch/kontakt/>