

13<sup>TH</sup> OF MARCH, 2020 OULU, FINLAND

**OULU**

**Oulu** Capital  
of Northern  
Scandinavia



# RACE OF DRONES OULU

**BULLETIN #1**



# WELCOME TO OULU!

City of Oulu and Business Oulu are organising for the second time the **Race of Drones Oulu 2020**, an FAI F9U World Cup event at Ouluhalli arena together with FPV Finland ry and the Finnish Aeronautical Association (FAA).

Ouluhalli is a large sports hall and event venue near the center of Oulu. The 12 000m<sup>2</sup> heated hall has 24m of high so it will be perfect for drone racing.

LAST YEAR'S EVENT BROUGHT TOGETHER 39 TOP PILOTS TO COMPETE FOR THE FAI WORLD CUP POINT AND NOW IT IS TIME TO DO THAT AGAIN!

Finnish Aeronautical Association (FAA) is the national and central organization of sport aviation in Finland.

FPV Finland ry, founded 2017 and member of FAA, is an association of all FPV relates sports and its members have been organising drone racing events since 2015 including two FAI World Cup races, one ERSa EuroCup Qualifier and 8 other major races in Finland and abroad, in addition to several local races across Finland.

As in last year in addition to FAI World Cup, participation to the race will also reward points to Finnish national Drone Racing Cup, the Suomi Cup.

## LOCATION

The race will be held at the Ouluhalli sports arena.

Address: **Ouluhallintie 20, Oulu, Finland**

For international competitors, the best way to get to the venue is by taking a direct flight to Oulu or fly to Helsinki and from there to Oulu. From Oulu airport to the venue the easiest way is to take a taxi (30-35€).

# ACCOMMODATION AND FOOD

The event is located near Oulu Centrum where there are many hotels.

It is recommended to book accommodation soon, there is a big business conference at the same time in the city (Polar Bear Pitching).

The event venue has a restaurant.

# OFFICIAL LANGUAGES

The official languages will be Finnish and English.

English Language always prevails concerning all elements of the competition, namely FAI documents, competition rules and Bulletins.

# PARTICIPANTS

Any holder of a valid FAI Sporting Licence (Aeromodelling discipline) or FAI Drone Permission may compete.

The FAI Sporting Licence or FAI Drone Permission must be registered in the FAI database.

The holder of a FAI Sporting Licence or FAI Drone Permission may be required to produce an official document bearing his photograph and signature as proof of identity.

# REGISTRATION

- The registration happens via event website:  
**<https://rod.oulu.com/>**
- The registration will open at 2020-01-13
- There is no registration fee.
- The registration deadline is 1st of March.
- The names/nicknames of the registered pilos may be published on the event website.

# COMPETITION SCHEDULE

The following competition schedule may be subject to changes.

Friday 13.3.2020

**07:30 Pilot registration**

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**08:30 Pilot briefing**

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**09:00 Practice heat**

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**10:00 Qualifying Rounds**

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**16:30 Eliminations and final**

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**19:00 After Party**

Details of the other event program are announced on the event website.

## RULES

The rules in the event will be

FAI Sporting Code Section 4 Aeromodelling - Volume F9 Drone Sport

FAI Sporting Code Section 4 Aeromodelling Volume CIAM General Rules.

FAI General Section and FAI Code of Ethics.

Local rules:

# RADIO CONTROL EQUIPMENT

The recommended frequency band is 2.4 GHz, with maximum output power of 100mW. Any 2.4 GHz radio control equipment may be used, provided that it does not interfere with other radio systems or video systems.

Other radio systems are allowed provided that those are within the legal limits in Finland and do not cause interference to other radio systems and the video system.

TBS Crossfire users:

Please note that the allowed power limit for crossfire in Finland is 25mW and the allowed band is 868MHz. The 915MHz band is NOT allowed.

# VIDEO SYSTEM

The allowed video system is 5.8Ghz analog video.

The maximum output power is 25mW.

Only circular polarized antennas are allowed. Linear antennas are NOT allowed.

Race organisers will offer the official video feed for the pilot from the race ground stations via 3.5mm 4-pin jack, compatible with the FatShark goggles.

Official receivers will be equipped with right hand polarized antennas only.

Competitors are allowed to use their own video receivers but video issues when not using the official ground station video feed will not be basis for dispute or rerun of the.

The recommended video transmitters are:

- ImmersionRC Tramp
- TBS Unify (all variants)
- Furious Stealth Race

Using of non-recommended video transmitters is allowed only if they do not cause problems to other competitors. The power levels and frequencies will be measured and monitored during the race and can be base for disqualifying from the race as per the FAI rules.

Competitors must be able to change the band and channel of the transmitter easily between the rounds.

# LED LIGHTING UNIT

Each drone must be equipped with at least 32 switchable RGB LED functioning elements so that the aircraft can be seen clearly from any direction. Recommended layout: 4 on bottom and 4 on top of each arm of the model. LEDs are inspected before every flight and the drone must meet the requirements to fly.

# ELECTRONIC TIMING SYSTEM

The race will be run using electronic timing system, based on video transmitter power measurement.

# CANCELLATION POLICY

In case of force majeure the organisers reserve the right to cancel the event.

# CONTACT INFORMATION

For any question regarding the event, please contact:  
**[aprepo@fpvfinland.fi](mailto:aprepo@fpvfinland.fi)**

# EVENT PARTNERS



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