

# **BARCELONA DRONE RACING**

## **F3U FAI**

### **WORLD CUP 2018**

**Les Comes, Barcelona**  
**20, 21 and 22 July 2018**

#### **Bulletin #01**

---

*Thank you for your interest in attending the Barcelona Drone Racing FAI F3U World Cup 2018.  
In this document, you will find a broad outline of information on the event.  
As we get closer to the event date, more specific information will be provided.  
You are able to contact our team at any time with more specific questions.*

*Thank you and we look forward to meeting you at our event.*

---

#### **RACING MULTIROTORS (DRONES) CATEGORY F3U**

Club Aeromodelisme Catalunya Central, Catalan Aeronautical Federation (FAC), the Consell Català de l'Esport by delegation Royal Spanish Aeronautical Federation (RFAE) and the Fédération Aéronautique Internationale (FAI) organizes the first "Barcelona Drone Racing F3U World Cup".

## 1. The Venue:

Les Comes, Súria, 08260 Barcelona

### LES COMES:

GPS Coordinates:

41° 48,0618 N

1° 46,0722 E

t. 93 877 07 58

f. 93 836 28 13

info@lescomes.com

www.lescomes.com



### BCN AIRPORT - LES COMES:

Exit direction Lleida - Tarragona - Girona → Ronda de Dalt → Exit 9 → E-9 → C-16 → Exit 50 → Manresa → Follow C-25 → Direction Lleida, take exit 132 direction Solsona (C-55) → At kilometer marker 43.5 turn right and follow the road 3 Km to Les Comes.

### GIRONA AIRPORT - LES COMES:

Exit direction Lleida C-25 → Exit 132 direction Solsona (C-55) → At kilometer marker 43.5 turn right and follow the road 3 Km to Les Comes.

## 2. Dates:

20th, 21st and 22nd July 2018.

## 3. Participation Requirements:

The number of participants, for organizational reasons, will be of 72 pilots. In case of a higher demand, the organisation will consider to increase the total number of accepted pilots if conditions allow.

To participate, pilots must hold a valid FAI license 2018.

### DRONE PERMISSION

**Spanish pilots** - Drone Permission is NOT accepted. Spanish pilots must be in possession of a valid FAI - RFAE racing license.

**Non-Spanish pilots** - Drone permission will be accepted as long as the pilot holds a valid sport license from its country of origin or insurances of civil responsibility and medical coverage.

The organization may arrange the corresponding insurance for 45 €.

## 4. Hotel, Displacements and Meals:

Travel to the Venue, accommodation and meals have to be covered by participants. Below is a list of local accommodation options, otherwise there is an onsite camping option.

The venue has a camping area with facilities and a restaurant to be open from 08:00h to 22:00h. The rates for these services & accommodation will be announced in upcoming newsletters and on the event website: [www.barcelona-drone-world-cup.com](http://www.barcelona-drone-world-cup.com)

The easiest way to get to the venue is by car. For more information on how to reach by public transport it is advised to contact the organization.

If requested by sufficient number of guests, daily shuttle can be organized.

<p>Hotel Món - 4 Stars</p> <p>Site St. Fruitos de Bages - 24km</p> <p>B&amp;B 243€*</p> <p>Website <a href="http://www.monstbenet.com">www.monstbenet.com</a></p>	<p>Hotel Restaurant Ramon Park -4 Stars</p> <p>Site Santpedor - 10km</p> <p>B&amp;B 97€*</p> <p>Website <a href="http://www.restaurantramon.com">www.restaurantramon.com</a></p>
<p>Parador Nacional Ducs de Cardona -4 Stars</p> <p>Site Cardona -23 km</p> <p>B&amp;B 92€*</p> <p>Website <a href="http://www.paradores.es">www.paradores.es</a></p>	<p>L'Hotelet - 3 Stars</p> <p>Site Manresa City Center - 15 km</p> <p>B&amp;B 140€*</p> <p>Website <a href="http://www.hoteletmanresa.com">www.hoteletmanresa.com</a></p>
<p>Hotel Vilar Rural - 3 Stars</p> <p>Site Cardona -25 km</p> <p>B&amp;B 70€*</p> <p>Website <a href="http://www.vilarsrurals.com">www.vilarsrurals.com</a></p>	<p>Hotel Bremon - 3 Stars</p> <p>Site Cardona - 24km</p> <p>B&amp;B 105€*</p> <p>Website <a href="http://www.hotelbremon.com">www.hotelbremon.com</a></p>
<p>Hotel Els Noguers - 2 Stars</p> <p>Site Manresa - 15km</p> <p>B&amp;B 85€*</p> <p>Website <a href="http://www.hotelbremon.com">www.hotelbremon.com</a></p>	<p>Mas de la Sala -3 Stars</p> <p>Site Cardona - 22km away</p> <p>B&amp;B 57€*</p> <p>Website <a href="http://www.masdelasala.com">www.masdelasala.com</a></p>

*\*Prices on the list are an approximate indication. Please contact individual hotels for exact pricing and availability.*

## 5. Regulations:

The regulations will be the **official FAI rules** at the time of the event:

Sporting Code Section 4 - F3 Racing Model Aircraft FPV

[https://www.fai.org/sites/default/files/documents/sc4\\_vol\\_f3\\_droneracing\\_15-3-2018.pdf](https://www.fai.org/sites/default/files/documents/sc4_vol_f3_droneracing_15-3-2018.pdf)

[http://www.fai.org/cimp-anti-doping-programme / rules-and-procedures](http://www.fai.org/cimp-anti-doping-programme/rules-and-procedures)

According to FAI rules any pilot may be required to undergo a doping control.

Failure to accomplish with these rules may incur in sanction and / or disqualification.

## 6. Languages:

The official languages of the event are English, Spanish and Catalan.

## 7. Registration:

Registration for the World Cup must be done through the event website.

Registrations will be accepted in the order of registration and payment, with a maximum of 70 pilots. The accepted registrations will receive an email with instructions on how to proceed to formalize the registration. Payment has to be done by bank transfer and a copy of receipt has to be sent to: [info@barcelona-drone-world-cup.com](mailto:info@barcelona-drone-world-cup.com)

Should a pilot not properly formalize the registration as instructed, or not provide the documentation necessary within the prescribed period, they will lose their registration.

No refunds will be accepted in this case.

### Registration fees:

Pilot + 1 Non Racing Team Member :	60 €
Team Manager :	25 €*

*\*Team Manager will be granted access to same areas as pilots and will have claim rights.*

All fees include a Welcome Pack.

The registration period will open on Sunday 3rd June at 24:00h (Sunday midnight)

**Deadline for Registration: July 10, 2018**

## 8. Administrative Procedures for Registration and Free Practices:

The event space will be open on Friday 20th July from 09:00h for administrative checks.

Accredited pilots will have access to free practice flight sessions in the circuit under the officials supervision.

The organization has planned a total of 4 free training sessions for pilots across two sessions, according to official schedule.

## 9. Model Registration:

Each participant may register up to **a total of 3 models**. Each model shall be identified according to regulations. The organization will inspect the models at the beginning of the competition (Saturday morning) and may carry out inspections of the models throughout the course of the competition as deemed necessary.

The fail safe of every model must function correctly, completely killing propulsion to the drone.

On saturday, once verified, the models will be kept by the organization in a parc fermé. Under no circumstances will the model be taken out of the parc fermé, except for competing, being eliminated or by indication of the organization.

In the case of repair due to a breakdown or sustained damage in race, the pilot will have a specific place to repair the model within the parc fermé in the presence of an official.

## 10. Radio frequency:

Radio Control Equipment: **Mandatory 2.4 GHz**

VTX: The TBS Unify Pro (5.8ghz) & the ImmersionRC TrampHV (5.8ghz) are allowed, with a maximum of 25mw. For other VTX, contact the organization.

Models must have easy access to switch from LHCP to RHCP.

The organization will have a RF Frequency Spectrum Analyser. Any deliberate unauthorized interference from signals VTX may be grounds for sanction or disqualification.

## 11. Official Complaints:

All official complaints shall apply to the official FAI rules.

All official complaints must be made in writing to Jury FAI and within 30 minutes after the incident, accompanied by a fee of 35 €.

Official complaints may be done by the concerned pilot or Team Manager.

**The decision of Race Direction and/or Jury FAI is final.**

In the case of not winning the claim, deposit will not be refunded.

## 12. Race and Event Direction:

**Event Director:** Roger Ferrer

**Race Direction:** Chris Ballard  
Rafa Flores

**Competition Jury FAI:** Jose Manuel Martínez  
Carles Aymat  
Bruno Madeira

**Jury FAI extra member:** Eladi Lozano

**Track Officials:** TBC (will be appointed before competition).

## 13. Drone LED Lighting:

Every drone that takes part in the racing must be adorned in RGB LED lighting.

Specifically, each arm must have at least 2x LEDs each, with at least a further 2x on the top of the body and at least a further 2x on the underside.

The lights must be able to be changed prior to each race, to match the designated colour.

This will greatly aid in spectators following the races.

If you are unable to add these lights to your drone, please advise the race management team, so you can borrow a communal set of RGB LEDs for each race.

#### 14. Competition Program:

##### Friday, July 20

09:00 - 10:00	Administrative checks, initial scrutineering and credentials
10:00 - 11:00	Pilot Briefing
11:00 - 15:00	F3U Free Practice
15:00 - 15:40	FS500 Free Practice
15:40 - 19:40	F3U Free Practice
19:40 - late	World Cup Welcome Party
20:00	Qualifying lists for Saturday

##### Saturday July 21, 2018

07:00 - 10:00	Scrutineering
10:30 - 12:30	F3U Qualification rounds
12:30 - 14:00	FS500 Practice & Racing
14:00 - 18:00	F3U Qualification rounds
18:00 - 18:30	FS500 Racing
18:30	Drone Chill Out
19:30	Official Results published

##### Sunday July 22, 2018

09:30 - 13:30	F3U: R48, R24, R12 semifinals
14:00	FS500 Final Races
14:30	F3U Final Race
14:45	F3U & FS500 Podium Celebration
15:00	Official Closing & World Drone Cup After Party

Schedules and the number of qualifying phases may be modified according inscriptions or unforeseen circumstances. The Organization reserves the right to modify the schedule.

The Organization has established timetables to allow at least 4 practice flights, 4 qualifying flights and a 32 pilots knockout stage. (Draws scenario 3).



### 15. Circuit:

The circuit is outdoor, the flights will take place during the day and high brightness environmental conditions. The airfield's ground is composed of clay and there will be hard parts on some obstacles, as well as natural obstacles such as trees and rocks.

The circuit is set in a natural area of 110 x 250 meters with a maximum height of 12 meters and a total track length of about 800 meters. The races will consist of 2 laps. Please ensure your model is suitable to complete each race.

In case of a crash or landing away from official landing zone the organization might take over the recovery of the model.



### 16. General Information:

Spanish voltage is 220/240 V - 50 Hz (European Plug)

Cars drive on the right hand side of the road, the road speed is in kmh

Spain's official currency is the Euro €

The expected temperature is 36°C max / 16°C min (summer)

Sunrise: 06:36

Sunset: 21:20

