

## **SYFC FPV (FIRST PERSON VIEW) QUADCOPTER COMPETITION RULES 2019**

### **Categories**

- a. Junior – Sec 1 and 2.
- b. Senior – Sec 3, 4 and 5.

### **Technical Specifications of Models**

Tiny Whoop OR Parrot Mambo

<b>CLASS</b>	<b>Frame</b>	<b>Prop</b>	<b>Weight of Drone</b>	<b>Battery</b>	<b>VTX</b>
Tiny Whoop	No Limit	31mm Max	35g Max	1 Cell Lipo (No Restriction in capacity)	25mW max
Parrot Mambo	18 x 18 cm with Bumpers	65mm Max	-	1 Cell Lipo	-

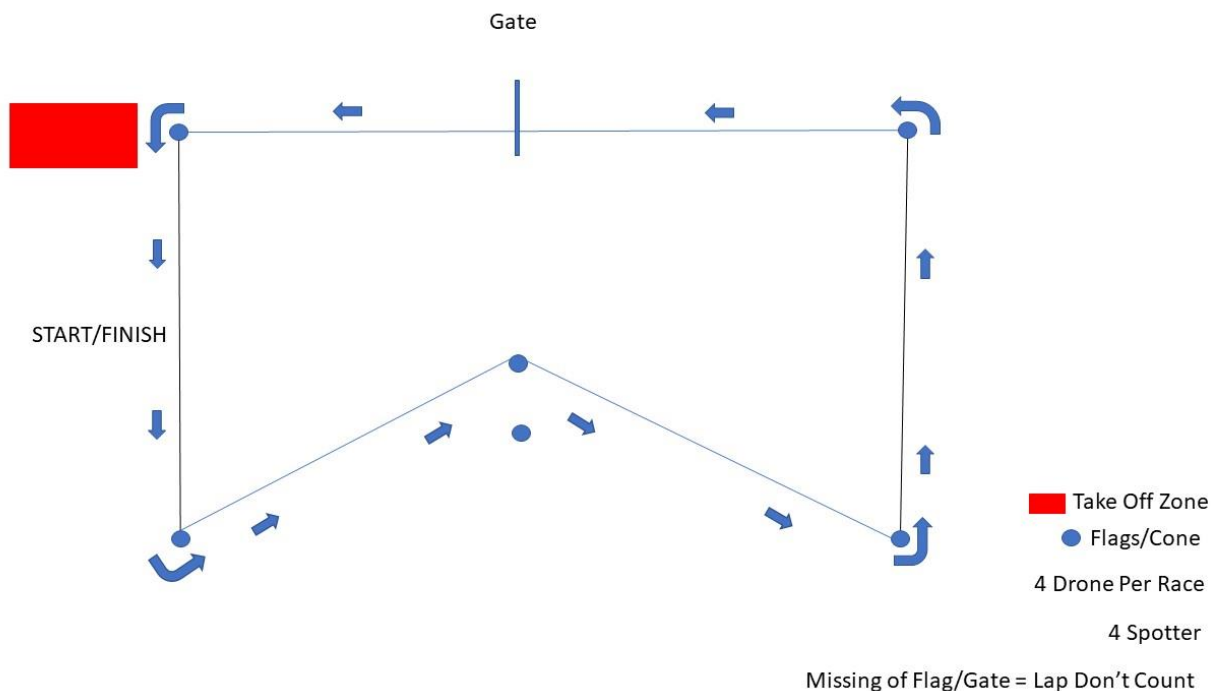
- 1) Models must be flown with propeller shrouds/guard or ducts.
- 2) Sharing of models are allowed between a school's contingent. There will be no sharing of models between different schools.

### **Officials (Race Director, Spotter, Score Keeper and Race Processors)**

- 1) The Race Director is in charge of the race and has final decision-making power. He will ensure that all competitors and officials are ready to commence before race. Race Director will station behind the pilots and will announce the race proceedings via loud hailer.
- 2) Each competitor shall be assigned with official/s who will function as lap counter and infringement judge during each race. Official will immediately inform the pilot when an infringement has been committed. Pilots are allowed to re-fly route to make the lap good.
- 3) Score Keeper will take charge of all the scoring and infringement received directly from Spotters at the end of every race.
- 4) Race Processors will be in charge of sequencing competitors for heats and finals, collection and issue of Drones/Transmitters before and after races.

### **Racing Course Specification & Rules**

Pilots will be given **two (2)** minutes to clock the most number of laps. A valid lap will require the pilot to cleanly navigate around the race course/obstacle to be counted as one. The race starts at the start/finish line. Upon the end of 2 minutes, pilot will be allowed an additional 30 seconds to complete the last lap. The race will end thereafter.



- 1) The racecourse specification may be modified at the discretion of the organizer.
- 2) Each Heat is 2 mins per run.
- 3) Each competitor will have 2 attempts. The better of the 2 heats will be taken as the final score for the contestant.
- 4) Gate dimension: 144 X 147CM
- 5) Only full valid/completed laps are counted.
- 6) All competing model & transmitter are to be handed over to officials before and after races.
- 7) Maximum of four (4) models will be racing together on each heat.
- 8) After the last lap siren sound, pilot is to continue to complete the last lap within 30 secs. If the last lap is not clean, it will not be counted.
- 9) On the conclusion of the qualifying heats, the top four competitors in each category (Junior and Senior) will fly off against each other in the respective final race.
- 10) Should there be a tie in laps for finals, a timed run will take place between the tie competitors.
- 11) Finals: Timed run, 10 laps.
- 12) All laps flown in counter-clockwise direction.
- 13) Spotters will record any circuit cutting, flying over the piloting/spectator area or No-fly zones. Any models straying into the piloting area or No-fly zones are instantly disqualified.
- 14) Only SYFC officials will be allowed within the Race Course when any multi-rotor is in flight.

- 15)** Pilots are to take-off from the designated take-off area.
- 16)** Retrieval of drone shall only be done after flying has ceased.
- 17)** The race director will call out procedure as follows:
- At the start  
<< 10 seconds to start>>  
<< 5, 4, 3, 2, 1 >>  
<< GO! >>  
At the end  
<<Siren>> (at 2 mins)  
<<Siren x 2>> (at 2 mins 30 secs)
- 18)** Pilots will have to stay within the designated piloting area during the race.
- 19)** No contestant is allowed to activate or switch on their drones unless given instruction to do so by race director or official.
- 20)** Random inspection may be done by race director or official/s.
- 21)** The race director may disqualify or demand appropriate rectification measure for drone should it be deemed unsafe for flight or out of race specifications.
- 22)** False start (taking off before race director's GO signal) will result in 1 lap penalty.
- 23)** If aircraft fails to take off, it is deemed that the pilot is out of the run and not eligible for a re-fly.
- 24)** Contact or crash during take off may result in a restart or re-fly as decided by official.
- 25)** The pilot who is deem responsible for causing a crash will result in disqualification.
- 26)** A maximum of one minute after identification of all model of the heat will be given before the race will commence. A competitor whose model is not ready to fly at the end of the one minute period, may be disqualified from the heat or shifted to another heat.
- 27)** In the event of a malfunction of the lap counting/Time keeping equipment, the competitor(s) affected by such malfunction shall be given a re-fly.
- 28)** The jettison of any part of the model during flight will render the pilot to instant disqualification, with the exception that it was a result of a collision.
- 29)** Pilots are allowed to make the lap good when he/she misses the flag/gate. Any laps that has any infringement will not be counted.
- 30)** All competitors may be accompanied by one helper. The helper of one team may act as helper in one or more teams. He may line the model at the start line and recover the model only AFTER the official end the heat or final.
- 31)** The race director has the full authority to decide any scenarios not stipulated above.

### **Protest**

Any member(s) of the teams competing may submit a protest to the Contest Director based on the following guidelines:

- A. Protest must be directed to the contest director within half-an-hour from the termination of the race in which the protest is concerned about.
- B. The Contest Director shall decide on the outcome of the protest. The outcome will include dismissing the protest, granting attempt, calling for a re-fly.
- C. Decision(s) made by Contest Director will be final.

**Kevin Su**  
**Contest Director**  
**SYFC**