

LDARC Flyball 230 Soccer Drone

LDARC Flyball 230 Soccer Drone is a quadcopter in the shape of a soccer ball. It features a 230mm diameter protective frame which is made of high density and flexible material, making it very bouncy when hitting hard surface, e.g. buildings, trees. It's a combination of DIY programmable drone tech with traditional soccer game. We highly recommend it to drone pilots of all skill levels and STEM activities.

Why you must have it?

- . Rigid & well protective bouncy cage for internal parts
- . Pentagon shape hollow modular bumper for easy batteries replacement and repair
- . Fun and educational, ideal for hobbyist and STEM kids above 12
- . Racer drone Flight Controller+ESC stack
- . Powerful XT1406-3600KV brushless motors
- . Just prepare some 4S 1300mAh lipo batteries, the droneball & radio transmitter combo is ready to fly
- . FPV camera & VTX can be added
- . Adjustable LED colors
- . Play individually or in groups for different purposes

Parameters:

Weight: 280g (Exclude battery)

Wheelbase: 122mm

External diameter: 230mm

Tower/Stack size: 20*20mm

FC+ESC: KKT20-F411 +KKT20-E20A

PROP: 3050-3blades(1.5mm)

Motor: MISS 1406-3600KV (size : Ø12 M2)

Camera : Nano2 Camera (**FPV version only**)

VTX: Mini Rocket VTX (**FPV version only**)

Receiver: RX2A PRO receiver

Radio/TX: EX8 Radio transmitter Mode2 (THR on the left)

Package exclude battery, Recommend battery: 4S 1300mAh (Buy separately)

Package includes:

Racer RTF M2 Version:

- . Racer PNP(without VTX and Camera) *1
- . FS-i6 Radio(Mode2) *1
- . RX2A PRO receiver*1
- . Other accessories*1

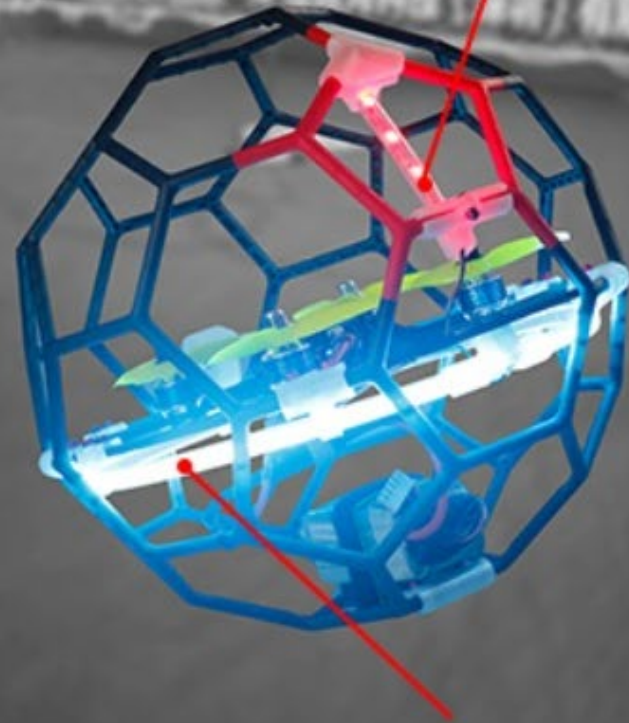
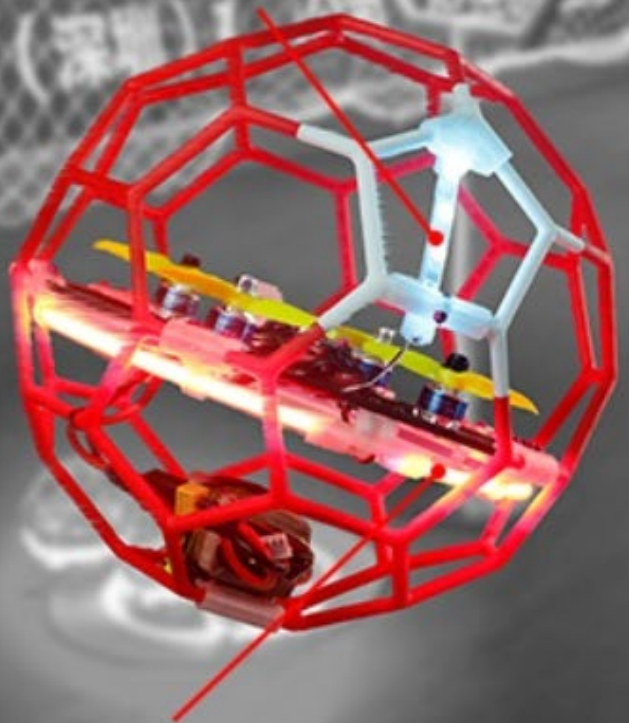
FPV RTF M2 Version:

- . FLYBALL 230 Racer PNP(with VTX and Camera) *1
- . LDARC EX8 Radio*1
- . RX2A PRO receiver*1
- . Other accessories*1



Team red members
color adjustable

Team blue members
color adjustable



Team red LED

Team blue LED



Standard size of football No.5

Type of competition:

According to different purposes, the competition can be divided into control competition and assembly competition; according to the the number of competition members, can be divided into individual competition and group competition; according to different perspectives, can be divided into the first perspective and the third perspective too.



Group Soccer Competition

Site requirements:

3 VS 3, recommended site area of 30 square metres or more

4 VS 4, recommended site area of 40 square metres or more

5 VS 5, recommended site area of 50 square metres or more

Other requirements:

It is suggested that the site should be equipped with protective net, the diameter of the goal is 1 m-1.5 m, and the height of the goal center from the ground is 1.5 m-4 m

Time setting:

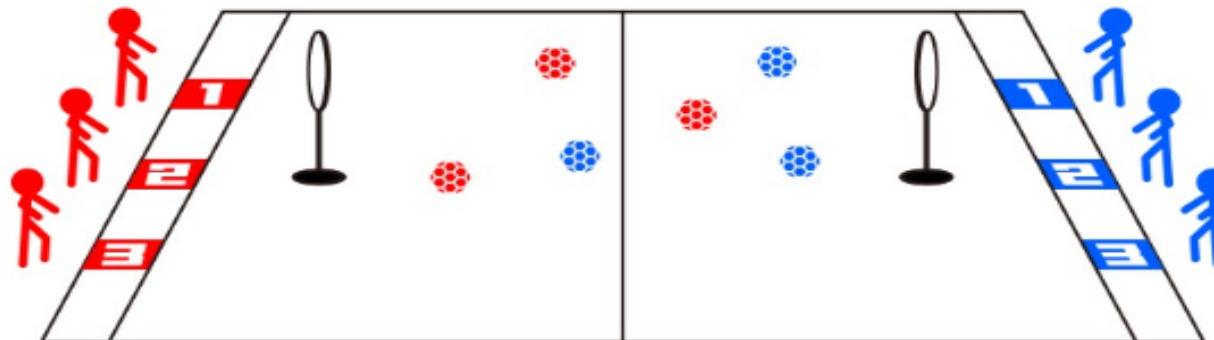
three minutes per bar, three bars per game
Competition strategy: All players can attack, or stay 1-2 members to defend. Prevent the other side from attacking, can also keep their own goal, as well as interfere with the other operator's sight.

Regulation 1:

Time starts, FLYBALL take off from the departure point, to score a point by attacking the opponent's goal. At the end, the team who scored more won the game. During the process, FLYBALL collision landing, can fly back to continue the game.

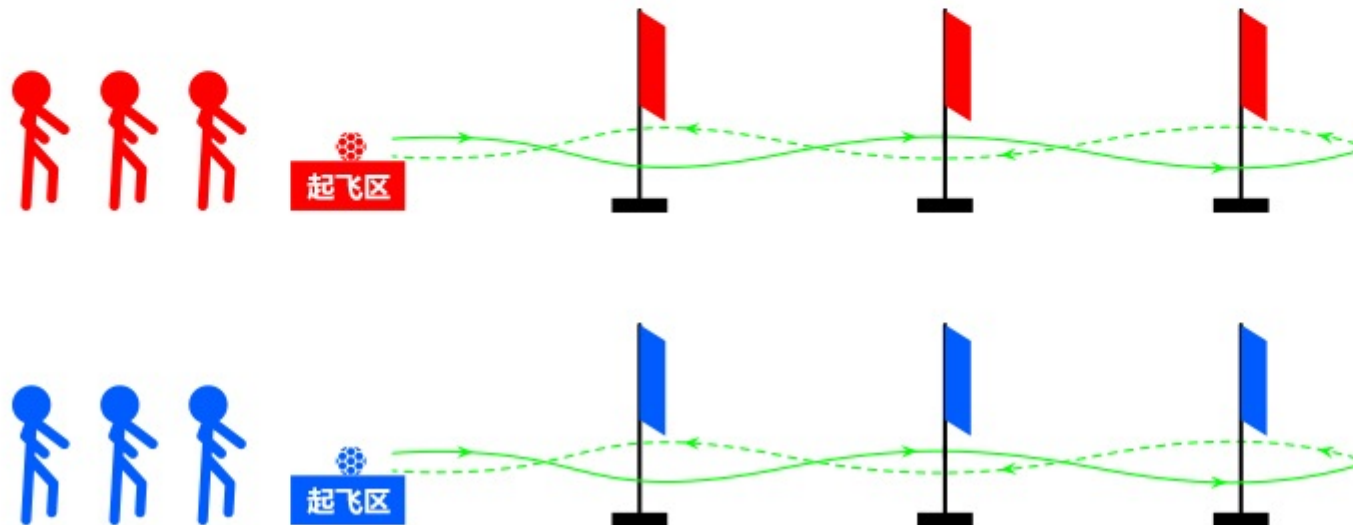
Regulation 1:

1-2 strikers per team, game starts, the striker fly through the opponent's goal score 1 point, other players fly through does not count the score. After scoring, both players must return to the departure point, taking off again when the referee issued a command, game continues.



Team relay :

The competition route is set through the combination of goal keeper and knives flags, and the players are divided into A team and B team. At the start of the game, team number 1 takes off from the departure point, then flies the FLYBALL along the course of the race, returning to the departure point, and team Number 2 continues the flight. Hands-on operation can be added during the games , such as open the remote control, replace the battery.



Individual time trial:

A victory on a basketball court, scored 1 point from top to bottom through the basket, and who scores the most points in 2 minutes will be the winner. If players score same points, go into overtime, until the one with the most points wins, probably in 3 minutes, otherwise continues.



Individual Challenge:

The winner is the quickest to complete the obstacle course.

A multiplayer match:

In a 3-minute round, the winner is awarded 1 point for crashing adversed flyball to the floor or touching the net

2 Players match: 1 VS 1

To make the competition more challenging, the 20*20mm FPV device can also be added with a 19mm width camera for shooting