



Pilot Information pack

Team relay

Contents

1. Drone specification
2. Technical details
3. Race Format
4. Event schedule

Drone Specification

The below specifications are mandatory for the event, and all pilots are expected to follow these rules.

- Frame size 180mm – 290 mm (diagonal motor to motor)
- Power 3S – 4S maximum (HV Batteries are allowed)
- Props 7" maximum size (plastic only)
- VTX Analog which will be supplied (see technical details for more information) or Connex ProSight Digital system (ground stations supplied)
- Control 2.4 Ghz
- LED's (colour changeable LED's on rear arms)
- Fail safe set to cut motors after a max 3 sec delay (staged failsafe which levels first before motor cut is allowed)
- The use of GPS, Sonar and other auto pilot devices are not permitted

The below specifications are not mandatory but are allowed.

- Take off legs and take off stands are allowed to a max angle of 30 degrees
- HV lipo batteries are allowed
- Additional LED's above the mandatory ones are allowed
- Canopies are allowed
- Camera gimbals are allowed

Pilots are allowed to have a spotter/Friend with them while they compete and to give live time advice to the pilot but this must be one of the other team members.

The Pit Runner must be dressed in kit that is either bright orange or bright Yellow for safety in the pit area but the design can match that of the rest of the team.



Technical Details

Due to the scale of the event which will have 3 simultaneous flight lines running at the same time, it is necessary to minimise the possibility of video issues. This is particularly important for the individual races as 8 pilots will compete in each heat. Therefore, identical VTX need to be installed on each drone to ensure consistency and the best chance of an event free from video issues.

The system chosen for the Euro Cup finals is the ImmersionRC Tramp HV system in conjunction with their new wand technology. The Tramp HV VTX system has been used at several Euro qualifier events and has proven to be of high quality and reliable.

The addition of the Wand means that in “Pit Mode” pilots can safely power up in the pit area without adversely affecting the racing. This means that for the first time at an event we will have a safe testing area, where pilots will be allowed to power up and hover test their drones at any time during the event. A receiver and screen will be provided which will allow pilots to test their video feed. This is a great advantage not only to the event but to you the pilots.

The technical manual for the Tramp HV system is available on the Euro Cup site www.ersa-cup.com

Race Format

Below are the basic details of the race format for the Euro Cup finals.

- Teams will race in heats of 4 teams per heat
- Each team will be allocated 2 VTX channels
- As long as a team still has a usable VTX channel they can continue to race
- Each team pilots must complete 4 laps of the track before landing in their allocated pit lane for handover to the next pilot.
- The pit runner alone is allowed into the teams pit lane to change over drones.
- Pilots fly with their own drone
- The winning team are the one who completes 20 laps first.
- After each of the 4 pilots have completed their laps the remaining 4 laps + any missing laps are completed by any of the team pilots with each pilot doing a maximum of 4 laps before a change over.
- Pilots who crash their drone cannot fly a team mates drone but may act as a spotter
- The top 8 teams go through to the semi Final



Event schedule

On Wednesday 5th of October, a free-flight area will be provided for pilots to practise and train. This will be situated at the main completion arena.

Thursday AM ... Pilot registration and briefing followed by Shift A practise heats

Thursday PM... Practise heats for shift B

Thursday Eve... Team Relay round 1

**Thursday Eve after the races there will be an opening ceremony at the Champions Village followed by Hot food and music.

Friday AM ... Qualifying heats for shift B + Freestyle shift A round 1

Friday Lunch... Special Entertainment from the Rotor Riot Team

Friday PM... Qualifying heats for shift A + Freestyle shift B round 1

Friday Eve... Team Relay round 2

**Friday Eve after the racing there will be hot food and live entertainment at champions village this will be provided by a jam band. Any pilot wanting to do a "turn" will be welcome to join the band on any instrument or as a singer.

Saturday AM... Qualifying heats for shift A + Freestyle shift B round 2

Saturday Lunch... Special Entertainment from the Rotor Riot Team + special guest

Saturday PM... Qualifying heats for shift B + Freestyle shift A round 2

Saturday PM... ¼ final knock out

Saturday Eve.. Team Relay ¼ final

**Saturday Eve there will be hot food and a pool party at Champions village with very special guest entertainers on stage including famous Ibiza DJ's and singers.

Sunday Lunch... Freestyle Final

Sunday PM... Individual Semi Final

Sunday PM... Individual Final

Sunday PM... Team semi Final followed by Final

***Sunday Eve at champions village there will be a closing ceremony and prize giving followed by after show party.