



Bulletin 2 - August 2023

2023 FAI World Drone Racing Championship Namwon, South Korea

Friday 6th to Monday 9th October 2023

Arrival: Thursday 5th October - Departure: Tuesday 10th October

WDRC website: <https://www.fai.org/wdrc2023>

The present Bulletin 2 only provides complementary information. So, it must be considered in addition to the January 2023 Bulletin #1 which is still on the WDRC website.

LOCATION

Namwon, where the event will take place, is a small, charming city located outside of Jirisan National Park, which is the largest national park in Korea. It is well known as the “City of Love” because of the famous folk tale of Chunhyang, a classic love story between two young lovers from different class in the Joseon Dynasty, where a strict social hierarchy existed. The city also has several historical sites and significant cultural assets, such as Gwanghallu Garden, Silsangsa Temple, and Gyoryongsanseong Fortress.



For more information on the city of Namwon, please visit the website:

<https://www.namwon.go.kr/eng/index.do>

VENUE: Chunhyangol Sports Complex which had been recently renamed Namwon Sports Town.

LOCAL TRANSPORTATION

SHUTTLE SERVICE BETWEEN INCHEON INTERNATIONAL AIRPORT (ICN) AND NAMWON

The organizer will arrange a shuttle bus service from the Incheon International Airport to Namwon on Wednesday, October 4, and Thursday, October 5, 2023. The duration of the transportation is 3.5 to 4 hours. The bus shuttle will serve the hotels concerned.

A similar shuttle bus service will be arranged on the departure day on Tuesday, October 10, 2023 from Namwon to the Incheon International airport.

The price is KRW 55,000 per person for one way, and KRW 110,000 for a round transport from and to the airport.

For the reservation , please use the electronic form accessible with the following link:

<https://forms.gle/W66FEqosCoegtGti8>

Note: The reservation and payment must be made no later than August 31, 2023. After that date, KAMA cannot not guarantee to satisfy the transportation.

LOCAL TRANSPORTATION IN NAMWON

Free shuttle bus will operate within the city of Namwon every day from October 6 to October 9, 2023. The bus will operate throughout the day and stop at some hotels, the WDRC venue, and major tourist attractions.

Other local transportation options are:

- Taxi: Namwon Station or Bus Terminal to Namwon Sports Town at a cost around 6,000 KRW.
- Bus: Fare within the city around 1,000 KRW.

SPORTING RULES

The 2023 WDRC Sporting Rules document based on the FAI F9U class rules has been amended on the following points:

- Clarification of the requirements for the video transmitters resulting from the tests done with analog and digital video transmitters used together in the same race (Paragraph 2.5. Video system).
- 7 mandatory colors (instead 4) LED light device considering some rounds will be flown with 6 pilots per

group (Paragraph 2.6 LED light device).

- Considering the expected number of competitors, the qualification rounds will be run with 6 competitors per group instead 4 (Paragraph 6.3 Qualification stage).
- Considering the expected number of competitors, the additional rounds will be run with 6 competitors per group instead 4 (Paragraph 6.5 Additional rounds sequence).
- Clarification that all finals (Overall, Junior and Female) will be run with a single race (Paragraph 6.6 Final stage).

The amended document is dated August 1, 2023 and published on the WDRC website.

REGISTRATION OF THE NATIONAL TEAMS

ON-LINE REGISTRATION

The deadline for the on-line registration of the national teams and payment of the entry fees is August 15, 2023.

Entry fees received after the deadline may be subject to a penalty fee up to 20 % of the total amount of the entry fees to be paid. The fees will not be accepted on arrival except in exceptional circumstances and with the prior agreement with the organiser.

If a national team or a competitor withdraws after entry fees have been paid, a refund will be considered only in case of force majeure or exceptional circumstance.

INVITATION LETTER

When an invitation letter is necessary to get a visa, it will be possible to get it from the organiser.

In that situation, request it by email to the KAMA contact person with the template of invitation letter required.

Note: It is important to get the invitation letter with the exact first and last names mentioned on the passport considering those names may be slightly different from names registered in the FAI Sporting License database which will be used for the registration of the competitors and team managers.

REGISTRATION ON THE VENUE

The registration on the venue will be done at a hall in the natatorium or swimming pool facility between 13:00 and 21:00 on Thursday, October 5.

The team manager is requested to bring two national flags (approximately 1m x 1.5m) at the registration on the venue. They will be returned to the team manager at the end of the WDRC.

At the end of the registration, the team manager will get packages (badges, banquet and lunch tickets, souvenirs) for the participants concerned of the national team.

FAI OFFICIALS

FAI JURY

- Bruno DELOR (France) - President
 - Antonis PAPADOPOULOS (Greece)
 - Ms. Mikyung YOO (Republic of Korea)
- Reserve: Massimo SEMOLI (Germany)

SUPERVISOR JUDGE - Sotir LAZARKOV (Bulgaria)

PILOTS' JUDGES

- Pascal BERLU (France)
- Ms. Angelika MÖBIUS (Germany)
- Eric LI-KOO (Great-Britain)
- Chi Hung CHAN (Hong Kong)
- Oscar CHINELLO (Italy)
- Samson KIM (Republic of Korea)

WDRC PARTICIPATION

Based on the Preliminary Entry Forms received, find below a table recapitulating the national teams expected for the WDRC, and the number of competitors expected for each national team.

		Number of competitors		
		Basic team	4 th competitor Junior	5 th competitor Female
Australia	AUS	3	1	1
Belgium	BEL	3	0	0
Bulgaria	BUL	3	0	0
Canada	CAN	3	1	1
People's Republic of China	CHN	3	1	1
Czech Republic	CZE	1	0	0
Denmark	DEN	3	1	0
Spain	ESP	3	1	1
Finland	FIN	3	1	0
France	FRA	3	1	0
Great Britain	GBR	3	1	0
Germany	GER	3	0	0
Hong Kong, China	HKG	3	1	1
Hungary	HUN	3	1	0
Israel	ISR	3	1	0
Italy	ITA	3	0	1
Japan	JPN	3	1	1
Republic of Korea	KOR	3	1	1
Latvia	LAT	3	1	0
Lithuania	LTU	3	0	1
Malaysia	MAS	3	1	1
North Macedonia	MKD	1	0	0
Norway	NOR	3	0	0
Philippines	PHI	3	1	1
Poland	POL	3	1	0
Romania	ROU	1	0	0
South Africa	RSA	3	1	1
Switzerland	SUI	3	1	1
Sweden	SWE	3	1	0
Thailand	THA	3	1	1
Chinese Taipei	TPE	3	1	1
United States of America	USA	3	1	1
32 countries		90	32	16
		138 competitors		

In addition, the following competitors will be qualified to participate as individual competitors ('wild card') subject not be already registered as competitors for their national teams:

- Reigning World Champion (2019 WDRC) - Changhyeon KANG (Republic of Korea)
- Competitors on the podium at the Drone Racing event of the 2022 World Games (TWG) in Birmingham, Alabama, USA:
 - 1st - Killian ROUSSEAU (France)
 - 2nd - Pawel LASZCZAK (Poland)
 - 3rd - Alejandro ZAMORA CABAÑAS (Junior - Spain)
- 16 best placed competitors in the Drone Racing World Cup ranking based on the contests held during the 12 months period from 1st August 2022 up to 31 July 2023.
- Competitors placed 1st, 2nd and 3rd in every Drone Racing World Cup contest held during that 12 months period in which at least 40 competitors had flown.

PROVISIONAL SCHEDULE

The following schedule is given for information and may be subject to change.

Friday October 6		
09:00	14:50	Model processing
10:00	15:50	Official practice
14:00	16:00	2023 FAI e-Drone Racing Cup - Part 1 (8 races)
16:30		Team managers' meeting
19:00		Opening Ceremony on the venue

Saturday October 7		
09:00	11:00	2023 FAI e-Drone Racing Cup - Part 2 (7 races)
11:00	14:12	Qualifying round 1 (24 races)
14:42	17:54	Qualifying round 2 (24 races)
18:24	21:36	Qualifying round 3 (24 races)

Sunday October 8		
09:00	10:44	Additional round 1 (13 races)
11:14	13:22	1 st Elimination round (Races 1 to 16)
13:52	15:36	Additional round 2 (13 races)
16:06	17:10	2 nd Elimination round (Races 17 to 24)
17:40	18:44	Double elimination sequence (Races 25 to 32)
19:14	20:50	Double elimination sequence (Races 33 to 44)
21:20	21:52	3 rd Elimination round (Races 45 to 48)

Monday October 9		
09:00	9:32	Double elimination sequence (Races 49 to 54)
10:02	10:18	4 th Elimination round (Races 55 and 56)
10:48	11:12	Double elimination sequence (Races 57 to 59)
11:42	11:50	5 th Elimination round (Race 60)
12:20	12:28	Double elimination sequence (Race 61)
12:58	13:06	Juniors Final
13:16	13:24	Women Final
13:34	13:42	Overall Final
15:00		Medals Ceremony for all classifications & Closing Ceremony on the venue
18:00		Banquet in Chamzoeun Convention located right across from the WDRC venue

ACCOMODATION IN HOTELS

KAMA may proceed reservation of rooms in 7 hotels (see the list below) at discounted prices obtained for the event.

Note: KAMA will do the reservations for free without getting a commission from the hotels.

1	SUITES HOTEL NAMWON	5	HOTEL RIVER
2	KENSINGTON RESORT	6	HOTEL O'HEVDAY
3	SANRIJI HOTEL	7	ILSUNG RESORT
4	HOTEL CHOONHYANG		



Distance by car of the hotels from the venue:

- 10 minutes for hotels 1 to 5.
- 30 minutes for hotels 6 and 7.

For the reservation of an hotel via KAMA, please use the electronic form accessible with the following link: <https://forms.gle/PC4ft4aZP5hkrxubA>

Notes:

- The reservation and payment of deposit must be made no later than August 31, 2023. After that date, KAMA may not guarantee to satisfy the request.
- Reservation in other hotels, pensions, guest houses, B&Bs may be done via online platforms such as trip.com, hotels.com, agoda.com), or by contacting directly the accommodation concerned.

1- SUITES HOTEL NAMWON **** (<https://www.suites.co.kr/Namwon/Eng>)

- Breakfast: KRW 22,000(US \$17.3)
- Deluxe Family (17 rooms available): KRW 195,000 / US \$155 per night
- Deluxe Bed (15 rooms available): KRW 195,000 /US \$155 per night
- Deluxe Triple (17 rooms available): KRW 195,000 / US \$155 per night



2- KENSINGTON RESORT *** (<https://www.kensington.co.kr/rnw>)

- Breakfast: KRW 15,900 / US \$12.5
- Deluxe (25 available): KRW 140,000/ US \$110 per night
- Each includes a bedroom with a double bed and a living room (Max. 3 persons)



3- SANRIJI HOTEL *** (<http://sanrijihotel.co.kr/>)

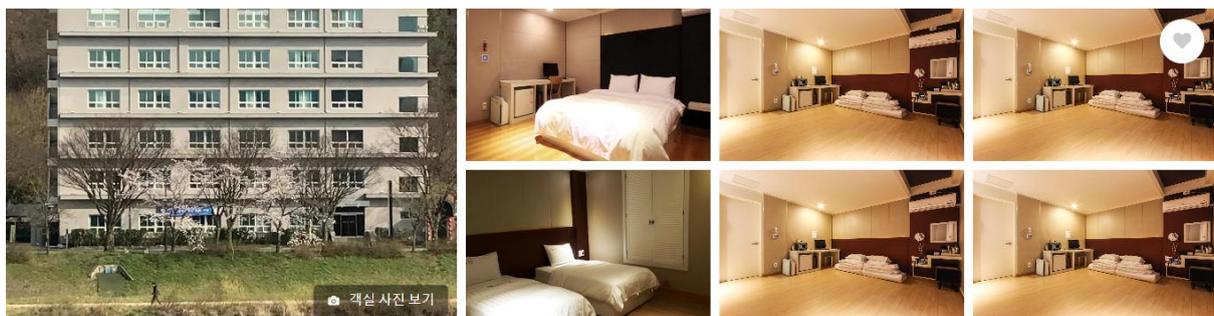
- No Breakfast - Convenience store available in the hotel
- Standard (5 rooms available): KRW 70,000 / US \$55 per night
- Deluxe (6 rooms available): KRW 90,000 / US \$76 per night
- Twin (12 rooms available): KRW 120,000 / US \$95 per night
- Triple (5 rooms available): KRW 140,000 / US \$114 per night



4- HOTEL CHOONHYANG ***

(<https://www.agoda.com/ko-kr/hotel-choonhyang/hotel/namwon-si-kr.html?cid=1844104>)

- Free breakfast for hotel guests
- Deluxe Double (17 rooms available): KRW 66,000 / \$52 per night
- Deluxe Twin (6 rooms available): KRW 76,000 / \$60 per night
- Deluxe Double River View (6 rooms available): KRW 76,000 / \$60 per night
- Family (6 rooms available): KRW 120,000 / \$95 per night



5- HOTEL RIVER *** (https://www.agoda.com/ko-kr/river-hotel_2/hotel/namwon-si-kr.html?cid=1844104)

- Free breakfast for hotel guests
- Deluxe (35 rooms available): KRW 70,000/ US \$55 per night
- Premium (2 rooms available): KRW 100,000/ US \$78 per night
- Suite (6 rooms available): KRW 110,000/ US \$86 per night



6- O'HEVDAY *** (http://ohevday.com/room_preview.html)

- Breakfast: KRW 8,000 / US \$6.5
- Standard (4 rooms available): KRW 98,000 / US \$77 per night
- Deluxe (8 rooms available): KRW 98,000 / US \$77 per night
- Deluxe Twin (26 rooms available): KRW 98,000 / US \$77 per night



7- ILSUNG RESORT *** (<http://jirisancondo.net>)

- Breakfast: KRW 10,000(US \$8)
- Gold (100 available): KRW 80,000 / US \$63 per night

The offer includes a bedroom with a double bed, another bedroom without a fixed bed, and a living room (Max. 4 persons)



OTHER TOPICS

EXCHANGE RATE

1,000 Won (KRW) = € 0.0007 Euro - At the opposite, 1 Euro corresponds to ₩ 1,430 KRD
\$ 0.00078 USD - At the opposite, 1 USD corresponds to ₩ 1,280 KRD

The banking network is excellent in Republic of Korea with ATMs accepting Visa or Mastercard, and most restaurants and shops accept credit cards.

INSURANCE

All competitors will be covered by limited third-party liability insurance provided by the organizer. Third-party liability insurance will cover competitors for model accidents involving injury to others and damage to property.

However, competitors must also have their own medical and personal liability insurance.

RACING CIRCUIT DESIGN & SIMULATION

The design of the racing circuit will be available and published on the WDRC website no later than end of August, 2023.

In addition, a simulation of the track will be available on the EreaDrone simulator. **KAMA will offer on request an EreaDrone permanent licence to every competitor registered for the WDRC.**

PACK OF BATTERIES

The organiser may supply packs of batteries on request.

For the order, please use the electronic form accessible with the following link:

<https://forms.gle/zZ28Jt5KSoJdqJyn8>

Note: The deposit must be paid no later than August 31, 2023. After that date, KAMA cannot not guarantee to satisfy the order.

OFFICIAL PHOTOGRAPHIC SHOOTING

Each competitor may be required for a photo shooting for sports presentation and media production purpose. The photo shooting will be arranged either on October 5 or 6, 2023.

WDRC SUB-EVENTS

2023 FAI E-DRONE RACING CUP

This first online FAI e-Drone Racing event will be organised as a sub-event of the WDRC.

This online event will be run with the EreaDrone simulator using the 2023 WDRC racing circuit design.

The format of this event is based on a qualification followed by the final stage.

The qualification stage is run asynchronous, meaning that each pilot is flying alone without being impacted by the other pilots flying at the same moment. The qualification period will stand on September.

The qualification stage ranking will be done considering the fastest time to complete three consecutive laps. Every participant will be authorised 12 attempts maximum to register times on three consecutive laps during the qualification period.

The final stage is run synchronous, meaning that the pilots of a race are flying simultaneously with possibility to see the other models. The final stage will be run during the 2023 WDRC with a schedule allowing the WDRC competitors selected for the final stage of the FAI e-Drone Racing Cup to participate (See above the provisional schedule). A room in a building of the Namwon Sports Town will be equipped with appropriate computers for the pilots present.

The final stage will be based on 1/8th finals followed by 1/4th finals, semi-finals and the final with eight pilots in each race. So, the final stage will concern 64 pilots selected from the qualification stage.

Any person registered on the EreaDrone application may participate to the qualification stage. Use of the simulator requires an EreaDrone licence. There will be no entry fee to pay to participate to the 2023 FAI e-Drone Racing Cup.

Considering it will be an event sanctioned by FAI, a valid FAI Sporting Licence or FAI Drone Permission will be required to participate to the final stage.

Note: A reserve list based on the pilots ranked over 64 from the qualification stage will be established in order to replace the pilots selected for the final stage who will withdraw to participate, or do not hold a valid FAI Sporting Licence or Drone Permission.

A FAI diploma will be delivered to the pilots participating to the final race. Prize money (cash) will be awarded by the organiser. Additional prizes may be also awarded.

The detailed rules are defined in a specific document published on the WDRC website.

FAI KOREA DRONE SOCCER OPEN INTERNATIONAL CUP

The FAI Drone Soccer (F9A class) Open International run as a WDRC sub event will stand in an indoor arena located at Namwon Ibaek Culture & Sport Center distant only about 7 minutes by car from the WDRC venue. A shuttle bus service will be arranged between the two venues.

A FAI Drone Soccer World Cup is being launched with a first FAI Drone Soccer World Cup Grand Final expected on April 2024 in USA. The FAI Drone Soccer World Cup Rules document may be downloaded on the following webpage: <https://www.fai.org/drone-sports-soccer>.

When the bid will be confirmed by FAI, the Namwon event will be considered as one of the qualifying events for that Grand Final and renamed consequently '*FAI Korea Drone Soccer World Cup Qualifying*'.

Rules

The event will be organized in both subclasses F9A-A (40 cm) and F9A-B (20 cm) according to the FAI F9A class rules defined in the 2023 Edition of the FAI Sporting Code, Section 4 - Aeromodelling, Volume F9 Drone Sport Volume.

In each subclass, 10 players maximum may be registered in a team with the game played with 5 active players.

All players of a given team must possess a valid FAI Sporting Licence issued by the same NAC. In situation of a country in which there is no NAC, or a NAC not supporting Drone Soccer sport, the players of the team must possess a valid FAI Drone Permission issued by FAI instead a FAI Sporting Licence.

The format of the event will be a group stage followed by a knockout stage and then by the final stage with the play-off for the third place and the final.

For the group stage, the groups will be defined with a random draw, and every team play a match against each other team of the group. If different teams of a same country are participating, the draw will be done so that two teams from the same country are not, as far as possible, in the same group.

Provisional schedule

Friday October 6	Workshop with free coaching sessions Korean coaches will be available for F9A-A sub-class (40 cm) and US coaches for F9A-B subclass (20 cm)
Saturday October 7	Official Practice
Sunday October 8	Competition F9A-B (20 cm)
Monday October 9	Competition F9A-A (40 cm)

Registration of the teams

- From August 7 to September 3, 2023.
- For any question or request for information regarding the registration, please send an email to the KAMA contact person defined below.

Entry fee: € 300 for one sub-class or € 450 for both sub-classes per team including 10 players maximum and an eventual non-player additional team manager.

Notes:

- Drone balls for F9A-A subclass (40 cm) may be lent for the workshop coaching sessions.
- Drone balls for both subclasses may be purchased at discounted prices on the venue, prior to the event on request. Any team interested by this offer must contact by email the KAMA contact person defined below.
- Batteries will be available for the participants to compete in the event.

ORGANISER CONTACT DETAILS

Korea Aero Models Association

Contact person: SoonCheon PARK

Email: kama@k-ama.org

Mobile phone: +82 1037124742