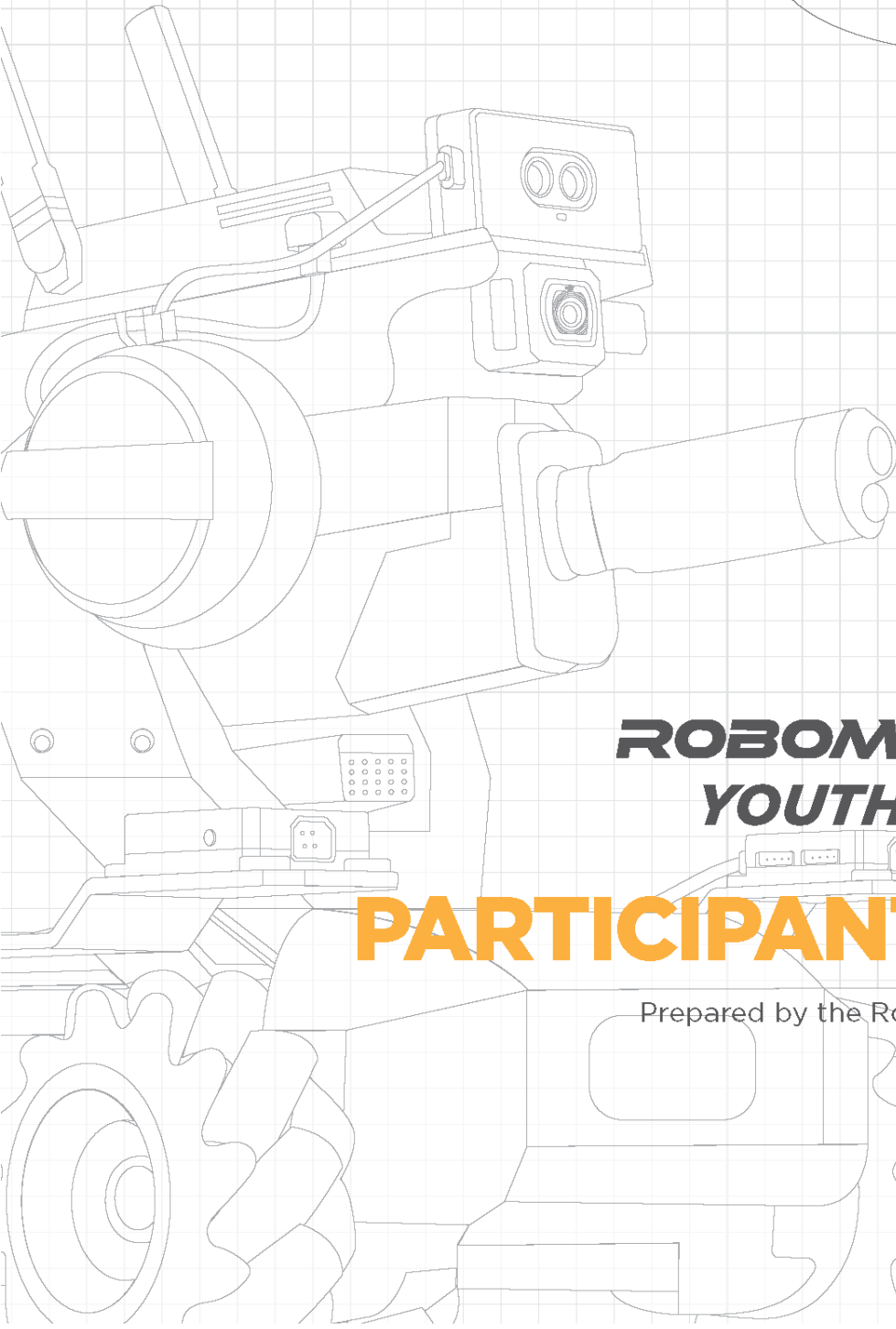
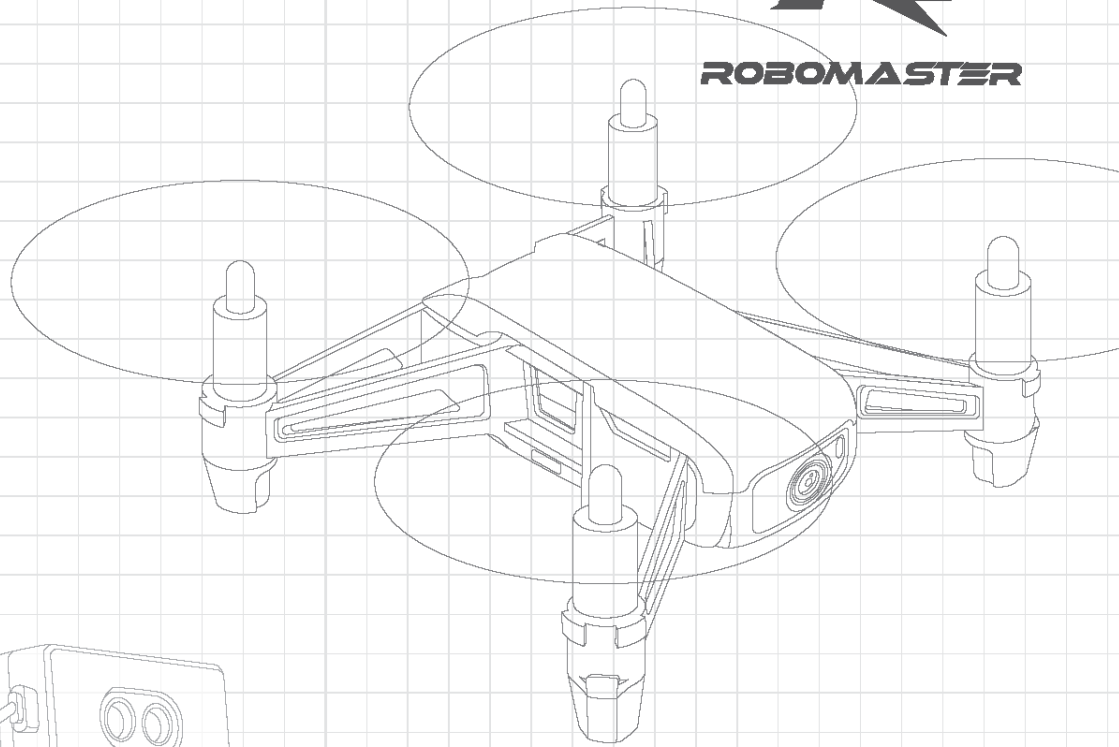


V1.0



ROBOMASTER



ROBOMASTER 2020
YOUTH TOURNAMENT

PARTICIPANT MANUAL

Prepared by the RoboMaster Organizing Committee
Released on April, 2020

Statement

Participants are forbidden from engaging or participating in any activity suspected of involving any public dispute or sensitive issue, offending the public or certain social groups, or damaging the image of RoboMaster as determined by the RoboMaster Organizing Committee ("RMOC"). In the occurrence of such cases, the RMOC has the right to permanently disqualify the offending party from the RoboMaster Competitions.

Using this Manual

Legend

 Prohibition	 Important notes	 Hints and tips	 Definitions and references
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Release Notes

Date	Version	Changes
2020.04.07	V1.0	<ol style="list-style-type: none"> 1. Updating the season schedule; 2. Updating the competition requirements; 3. Updating the award setup; 4. Adding Appendix 2: Final Tournament Judging Criteria; 5. Adding Appendix 3: Safety Instructions
2019.12.12	Preview	First Release

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1. Introduction

Founded by SZ DJI Technology Co., Ltd. and designed for young engineers, RoboMaster is a global educational robotics program that includes competitions, campus clubs, cultural merchandise and other initiatives.

The RoboMaster Competition is one of the tournaments under the “National Robotics Competition for College Students”, jointly organized by the Central Committee of the Communist Youth League of China and the Shenzhen’s Municipal People’s Government. Participating youth engineers self-develop robots by leveraging robot-related disciplines and technologies including robotic vision, embedded system design, mechanical controlled/inertial navigation, and human-computer interaction. They engage in battles by operating robots from the first-person visual perspective to activate runes and launch projectiles on the battlefield. As the first combat-type robot contest in China, RoboMaster has attracted the attention of hundreds of colleges, nearly 1,000 high-tech enterprises and tens of thousands of tech fans across the country with its unconventional contest format, impactful visual and audio effects, and intense battle style. In its five installments held so far, the competition has nurtured scores of outstanding engineers for society, and increased the visibility of robotic competitions and engineers in the public, and inspired individuals or groups to pursue their dreams in tech and join in the ranks of tech innovators.

Following the successful run of the RoboMaster Robotics Competition for five years, the RoboMaster Youth Tournament is a brand-new format of the Competition targeted at young participants. Launched by DJI, the Tournament requires young participants to form teams and engage in battles by operating their self-developed or modified robots. It focuses on building the theoretical engineering knowledge and AI application skills among youths, and helping them progress from mastering robotic basics and programming to AI and robot control theory. Its competitive format is a test of the participants’ quick adaptability, problem detection and problem-solving skills. Meanwhile, the Tournament will also put the participants’ teamwork and sense of responsibility to the test.

RoboMaster is starting a revolution in fostering innovative talent. Besides driving the development of robotics, it is channeling the enthusiasm and passion of top scientists and engineers for technology to the younger generation. The RoboMaster Youth Tournament hopes to nurture scientific thinking and the potential for innovation among youths, and help them derive a sense of joy and achievement through technical battle, so that they gain the confidence to face the challenges of the future and move towards the goal of changing the world.

2. Season Schedule



The following is for reference only. The specific time is subject to the latest announcement by the RMOC.

The RoboMaster 2020 Youth Tournament (“RM2020 Youth Tournament”) is set up as part of the RoboMaster series of competitions, with its season schedule divided into online and offline schedules.

Teams are required to pass the engineering notes assessment in order to qualify for the regional competitions. Only teams with outstanding results in the regional competitions will qualify for the final tournament.

Table 2-1 Online Schedule

Schedule	Competition	Channel	Notes
March 9, 2020, 12:00 - May 5, 2020, 12:00	Formal registration	Online	The participant manual for each regional competition will be released.
See the participant manual for each regional competition	Engineering notes	Online	<ul style="list-style-type: none"> ● Passing teams will qualify for the regional competitions. ● Passing teams will be eligible for the outstanding engineering notes award. ● The participant manual for each regional competition will be released subsequently.
To be determined.	Award application	Online	Log on to the RoboMaster official registration system and submit application materials according to requirements.

Table 2-2 Offline Schedule

Schedule	Competition	Channel	Notes
June – October, 2020 (See the participant manual for each regional competition)	Regional Competitions	Offline	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <ul style="list-style-type: none"> ● Please check the latest notifications for the schedules of each regional competition. ● The quota for the number of teams advancing to the final tournament from each regional competition will be updated. </div>
To be determined.	Final Tournament	Shenzhen	Teams with outstanding results in the regional competitions will qualify for the final tournament.

3. Participation

3.1 Participating teams

Teams are divided into the Junior and Senior Categories, with both competing separately.

- Junior Category: All team members must be aged 9 to 15, i.e. born during March 9, 2004 to December 31, 2011.
- Senior Category: All team members must be aged 15 to 19, i.e. born between March 9, 2000 and December 31, 2005.

Teams must indicate their category during registration, which will be reviewed by the RMOC based on the above rules.

3.2 Participants

The RoboMaster Youth Tournament promotes the spirit of teamwork. In order to encourage participants to perform important roles in their teams proactively, the RMOC will select the best captain, supervisor, teammate and other award categories in the final tournament, to recognize individuals who have made contributions to the RoboMaster Youth Tournament. Please refer to the table below for the roles and responsibilities of the participants:

Table 3-1 Participants' Roles and Responsibilities

Roles	Role Instructions	No. of Persons	Status	Responsibilities
Supervisor	<ul style="list-style-type: none"> ● The main person in charge of the team, responsible for the formation and management of the team ● Responsible for guiding the team in robot-building. ● Responsible for communicating and liaising with the RMOC. ● Must not be an official team member. 	1 - 3	An adult teacher at a school, youth palace, youth activity center, youth academy of science or other education institutions (to present relevant proof at the competition site if necessary)	<ul style="list-style-type: none"> ● Responsible for the safety of the personal property of all team members ● Coordinates campus resources, guides the team in developing project plans, controls preparation schedule, and helps the team successfully conclude the match ● During matches, the supervisor must actively cooperate with the RMOC and ensure the captain reports to the RMOC regularly on the team’s progress and other matters.

Roles	Role Instructions	No. of Persons	Status	Responsibilities
Official Members	<ul style="list-style-type: none"> ● Including the captain and general team members. See the table below for details ● Must not be a supervisor. 	5 - 8	Full-time students with proof of student identity up to December 2020, and meeting the relevant rules on team categories in 3.1.	See the table below for details

Table 3-2 Official members’ roles and responsibilities

Roles	Role Instructions	No. of Persons	Responsibilities
Captain	<ul style="list-style-type: none"> ● Core team member, the team’s technical and tactical leader ● The main liaison with the RMOC 	1	<ul style="list-style-type: none"> ● Responsible for the division of labor, overall planning and tactical arrangement and adjustment ● Attends the Captains Meeting, represents the team in confirming match results and participates in appeal processes and any subsequent hearings ● Responsible for the legacy and development of the team after the competition
General Members	Team members besides the captain	4 – 7	-

3.3 Others

1. Each team must be affiliated with one secondary/primary school. Only a maximum of two qualifying teams are permitted for each school. The team format can either be an individual or intercollegiate team. If more than two teams (including intercollegiate teams) are applying from a single school, the teams must submit a participation authorization letter or intercollegiate team statement, where ultimately only two teams with participation authorization letters or intercollegiate team statements may be permitted to enter the competition.
2. If a single school has several campuses, the main school and each of its campuses shall be allowed to send two teams, respectively.
3. An intercollegiate team can be formed by two to five schools.
4. Each team member is only allowed to participate in one team for the RM2020 Youth Tournament.

5. Each team is only allowed to participate in one regional competition with an independent quota for advancement to the final tournament during the RM2020 Youth Tournament.
6. The team name must be in the format of "XXX-Team" ("- " is only a separator and should not appear in the actual team name). "XXX" should be the team name chosen by the team itself. The total length of the team name should not exceed 16 English letters or 8 Chinese characters. The team name must not include the school name or its abbreviation in Chinese/English, or such Chinese characters as “队”, “团队” and “战队” which mean "team" in English, or other special symbols such as "*/-+". The team name must reflect the positive and pioneering spirit of the team and comply with relevant state laws and regulations.
7. If the organizer of a regional competition has its own registration system, teams must complete their registrations on the regional competition organizer’s registration system and the RoboMaster official website’s registration system in order to be fully qualified for the competition and awards.
8. During the regional competition stage, teams are not allowed to take part in competitions across provinces.

3.4 Q&A

The RMOC provides many Q&A channels as shown below. For more contact details for the RMOC, see the [list of official channels for the RoboMaster Organizing Committee](#).

Table 3-3 Q&A

Channel	Notes	Office Hours
Official Forum: bbs.robomaster.com	The Q&A will be posted on the “Competition Updates” page in the “Youth Tournament” section with the title prefix [RM2020 Rules Q&A]. The RMOC will review and reply to queries regularly every Thursday to Friday.	Working hours 10:30-12:30 14:00-19:30
Email: robomasteryouth@dji.com	-	
Tel: 0755-36383255	-	
WeChat: rmyouthsaiwu	Please indicate [region + school name + personal name] when adding.	



Check the official notifications for the latest updates on regional competitions, at: The section below the map on the Youth Tournament page on the RoboMaster official website.

4. Award System

The awards listed in this manual are all for the final tournament category. Please refer to the participant manual for each regional competition for their respective award setups. The overall award setup is as shown below:

Table 4-1 Overall Award Setup

Team Category	Award Category
Junior Category	<ul style="list-style-type: none"> ● First, second and third prize ● Individual prizes ● Team prizes
Senior Category	<ul style="list-style-type: none"> ● First, second and third prize ● Individual prizes ● Team prizes

4.1 Junior Category

The awards for the final tournament of the Junior Category are as follows:

Table 4-2 First, Second and Third Prize for Final Tournament of Junior Category

Award	Ranking	Qty.	Reward
First Prize	Champion	1	<ul style="list-style-type: none"> ● Champion trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Mavic Mini (for each team member) ● Enrollment test exemption for RoboMaster 2021 High School Winter Camp*5
	First Runner-Up	1	<ul style="list-style-type: none"> ● First runner-up trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Mavic Mini (for each team member) ● Enrollment test exemption for RoboMaster 2021 High School Winter Camp*2

Award	Ranking	Qty.	Reward
	Second Runner-Up	1	<ul style="list-style-type: none"> ● Second runner-up trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Tello EDU (for each team member) ● Enrollment test exemption for RoboMaster 2021 High School Winter Camp*1
	4th to 12th place	9	First prize achievement certificates (for each team member)
Second Prize	13th to 48th place	36	Second prize achievement certificates (for each team member)
Third Prize	Teams that have not won the First or Second Prize but have completed the competition.	48	Third prize achievement certificates (for each team member)



Exemption: Exempt from written test, proceeding directly to interview

Table 4-3 Individual Prizes for Junior Category

Award	Qty.	Reward
Outstanding Supervisor	No more than 10	Achievement certificates
Outstanding Captain	No more than 10	Achievement certificates
Outstanding Team Member	No more than 10	Achievement certificates
Outstanding Volunteer	Multiple	Achievement certificates

Table 4-4 Team Prizes for Junior Category

Award	Qty.	Reward
Outstanding Engineering Notes	No more than 5	Achievement certificates

Award	Qty.	Reward
Best Team Spirit	No more than 5	Achievement certificates
Most Popular Team	No more than 5	Achievement certificates
Best Publicity Award	No more than 5	Achievement certificates
Best Competitive Spirit Award	No more than 5	Achievement certificates
Golden Idea Award	No more than 5	Achievement certificates
Aesthetic Design Award	No more than 5	Achievement certificates
Outstanding Open Source Technology	No more than 5	Achievement certificates
Super Warrior Award	No more than 5	Achievement certificates
Quick Battle Award	No more than 5	Achievement certificates
Smart Engineer Robot	No more than 5	Achievement certificates
Smart Standard Robot	No more than 5	Achievement certificates
Smart Aerial Robot	No more than 5	Achievement certificates
Super Standard Robot	No more than 5	Achievement certificates
Best Modification Award	No more than 5	Achievement certificates
Super Projectile Reloader	No more than 5	Achievement certificates
Top Tactician Award	Not more than 5	Achievement certificates

4.2 Senior Category

The awards for the final tournament of the Senior category are as follows:

Table 4-5 First, Second and Third Prize for Final Tournament of Senior Category

Award	Ranking	Qty.	Reward
First Prize	Champion	1	<ul style="list-style-type: none"> ● Champion trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Mavic Mini (for each team member)

Award	Ranking	Qty.	Reward
			<ul style="list-style-type: none"> ● Experiential participation*5 and enrollment test exemption*3 for RoboMaster 2021 High School Winter Camp
	First Runner-Up	1	<ul style="list-style-type: none"> ● First runner-up trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Mavic Mini (for each team member) ● Experiential participation*3 and enrollment test exemption*3 for RoboMaster 2021 High School Winter Camp
	Second Runner-Up	1	<ul style="list-style-type: none"> ● Second runner-up trophy ● First prize achievement certificates (for each team member) ● Medals (for each team member) ● Tello EDU (for each team member) ● Experiential participation*1 and enrollment test exemption*3 for RoboMaster 2021 High School Winter Camp
	Third Runner-Up	1	<ul style="list-style-type: none"> ● First prize achievement certificates (for each team member) ● Experiential participation*1 and enrollment test exemption*3 for the RoboMaster 2021 High School Winter Camp
Second Prize	5th to 16th place	12	Second prize achievement certificates (for each team member)
Third Prize	Teams that have not won the first and second prize but have completed the competition	16	Third prize achievement certificates (for each team member)



- Experiential participation: Direct enrollment as “experiential camp participants”
- Test exemption: Written test exempted, proceeding directly to interview

Table 4-6 Individual Prizes for Senior Category

Award	Qty.	Reward
Outstanding Supervisor	No more than 5	Achievement certificates
Outstanding Captain	No more than 5	<ul style="list-style-type: none"> ● Achievement certificates ● Enrollment test exemption for the RoboMaster 2021 High School Winter Camp
Outstanding Team Member	No more than 5	<ul style="list-style-type: none"> ● Achievement certificates ● RoboMaster 2020 High School Winter Camp Eligibility
Outstanding Volunteer	Multiple	Achievement certificates

Table 4-7 Team Prizes for Senior Category

Award	Qty.	Reward
Outstanding Engineering Notes	No more than 3	Achievement certificates
Best Team Spirit	No more than 3	Achievement certificates
Most Popular Team	No more than 3	Achievement certificates
Best Publicity Award	No more than 3	Achievement certificates
Best Competitive Spirit Award	No more than 3	Achievement certificates
Golden Idea Award	No more than 3	Achievement certificates
Aesthetic Design Award	No more than 3	Achievement certificates
Outstanding Open Source Technology	No more than 3	Achievement certificates
Super Warrior Award	No more than 3	Achievement certificates
Quick Battle Award	No more than 3	Achievement certificates
Smart Engineer Robot	No more than 3	Achievement certificates
Smart Standard Robot	No more than 3	Achievement certificates
Smart Aerial Robot	No more than 3	Achievement certificates
Super Standard Robot	No more than 3	Achievement certificates
Best Modification Award	No more than 3	Achievement certificates
Super Projectile Reloader	No more than 3	Achievement certificates
Top Tactician Award	No more than 3	Achievement certificates

Appendix 1 Engineering Notes Assessment

The following are the assessment criteria for engineering notes:

- How to participate: Log on to the [RoboMaster official website's registration system](#) and submit your team's engineering notes according to the requirements. Your team will only qualify for the competition and be eligible for the "Outstanding Engineering Notes" award after passing the assessment.

- Documentary requirements:



A team's engineering notes must not be highly similar in content to another team's engineering notes.

- Cover: Name of the relevant regional competition + school + team name
 - Format: Electronic file or scanned handwritten version
-



Handwriting must be clear and legible, otherwise the document will be deemed invalid.

- The content should contain the following:



Original materials, such as design drawings, process records and circuit diagrams, which should be inserted into the engineering notes in the form of images.

1. Table of Contents
2. Team introduction and division of tasks (recommended: Team logo, flag, shirt and other elements that demonstrate the team's culture)
3. Technical Plan
 - 1) Mission breakdown: Break down the missions specified in the rules documents, and organize and summarize the technical points involved. Explain the principles involved in these technical points, and indicate the technical points you are currently able to apply and those that require further studying.
 - 2) Plan Design: Design a specific plan for the achievement of each mission based on the mission breakdown. For instance, which technical points need to be integrated in order to achieve a certain mission.
 - 3) Core principles: Focus on explaining the missions involving principles that are more complicated.
 - 4) Plan Optimization: Analyze the reasons currently limiting the achievability of missions, how such limitations can be overcome, and what kinds of optimization can be implemented in the future.
4. Development Records: Record the issues encountered during the development process and how they are solved. They can be technical, common everyday or publicity-related issues. For example: How can a technical difficulty be solved? Reasons for progress delays? How can improvements be made?

What can be done if your studies conflict with competition preparation?

5. Conclusion: This can include aspects such as team development, team member transformation, lessons learned, suggestions for the competition, and hopes for the future.
- Submission time: To be determined. See the requirements in the participant manual for each regional competition to be released.

Appendix 2 Final Tournament Awards Assessment Criteria

Application Process

- Participants: Teams that have successfully advanced to the final tournament of the RM2020 Youth Tournament and met the requirements in Appendix 3 of this participant manual.
- Application Period: To be determined.
- Application Method: Log on to the [RoboMaster official website’s registration system](#)
- Submit the application materials according to the requirements



- No application needs to be made for the Quick Battle, Smart Engineer Robot, Smart Standard Robot, Smart Aerial Robot, Super Warrior, Super Standard Robot and Super Projectile Reloader awards. The RMOC will make assessments based on the data recorded by the on-site systems in the final tournament.
- Teams are required to submit application forms within the stipulated time frame, after which no application will be entertained.

Assessment Criteria

The assessment criteria for the final tournament awards are as follows:

Table 4-8 Assessment Criteria

Type	Award	Assessment Criteria
Individual Prizes	Outstanding Supervisor	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award, and undertakes the role of a “supervisor” of a team in the RM2020 Youth Tournament, as per the records of the RM registration system; ● His or her team has won the national second prize or a higher award; ● Instructs students in team- and culture-building, possesses a strong sense of responsibility, and active in organizing the team and promoting its growth; ● Dedicated to each team member, cares about the growth and development of the students in the competition, is loved by the students, and receives good feedback from the school or team members.

Type	Award	Assessment Criteria
	Outstanding Captain	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award, and undertakes the role of a “captain” of a team in the RM2020 Youth Tournament, as per the records of the RM registration system; ● His or her team has won the national second prize or a higher award; ● Crates good camaraderie in the team, and is adept at managing the team, handling technical and emotional issues as well as comforting the team members; ● Receives good feedback from the supervisor and team members, and active in driving the progress of development; <p>Meets the basic requirements for the RoboMaster High School Winter/Summer Camp.</p>
	Outstanding Team Member	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award, and undertakes the role of a “general member” of a team in the RM2020 Youth Tournament, as per the records of the RM registration system; ● His or her team has won the national second prize or a higher award; ● Has made breakthroughs or significant contributions to the team in the area he or she is in charge of; ● Is a responsible person who receives good feedback from the supervisor or captain; ● Meets the basic requirements for the RoboMaster High School Winter/Summer Camp.
	Outstanding Volunteer	<ul style="list-style-type: none"> ● Undertakes the role of a “volunteer” in the RM2020 Youth Tournament ● Understands, respects and is passionate about the competition, cooperates actively with the RMOC, is diligent and pragmatic, a good team player, and demonstrates outstanding performance in volunteer work; ● Receives good feedback from the RMOC leader for the group he or she works in. Nomination is done by the RMOC leader, and selections are then made according to the nomination materials.

Type	Award	Assessment Criteria
Team Prizes	Outstanding Engineering Notes	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The content of the engineering notes is complete, detailed, thorough, and logical, with key points highlighted; ● The time span of the engineering notes covers essentially the whole preparation cycle; ● High recording frequency in the engineering notes, at least once a week;
	Best Team Spirit	<ul style="list-style-type: none"> ● The team meets the eligibility criteria for the award; ● The team shows good team camaraderie, and team members are helpful to one another and are united and close-knit; ● The team commits no violation of sportsmanship values, and engages in fair competition; ● Team-building activities, a team t-shirt, team merchandise, etc.
	Most Popular Team	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● Abides by the competition rules, without involvement in any vote manipulation; ● The team is united and its members are helpful to one another, and it exudes a positive energy and leads by example; ● Voted among the top 3 in the popularity poll organized by the RMOC.
	Best Publicity Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The team is active in promoting the competition, has set up its own Weibo and WeChat accounts, and is actively engaged on the competition's forum; ● The team's publicity content includes but is not limited to team or competition-related information such as the story behind their participation, team history, team member profiles, and technical sharing; ● Active in organizing team-building activities, with a team t-shirt, team merchandise, and quality graphic, textual and video creations, etc.

Type	Award	Assessment Criteria
	Best Competitive Spirit Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The team shows a good competitive spirit, with no serious violations of the competition rules, and displays a civilized competitive spirit; ● The team is active on social media platforms, and interacts well with the RMOC, volunteers and other teams; ● The team is helpful, active and an open source of information to others, enthusiastic in sharing their experiences, and willing to provide resources to other teams; ● Selections to be made according to the feedback given by the staff of the RMOC, other teams, and volunteers of the competition.
	Golden Idea Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● Provides constructive queries and feedback on competition rules or procedures.
	Aesthetic Design Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The team’s robot designs are aesthetic and artistic; ● The robots’ aesthetic designs carry the team’s unique style and are different from the robots of other teams; ● The aesthetic designs reflect the youthful spirit of bold innovation and motivation, which are explained in the application materials.
	Outstanding Open Source Technology	To be determined.
	Super Warrior	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate each team’s average round kill points in the final tournament, and select the top 3 teams in the Senior Category and the top 5 teams in the Junior Category.
	Quick Battle Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate the number of rounds won by each team in the final tournament, calculate the average round duration, and

Type	Award	Assessment Criteria
		<p>rank them from short to long. The top 3 teams of the Senior Category and top 5 teams of the Junior Category will be selected.</p>
	<p>Smart Engineer Robot</p>	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● All projectile containers that can be obtained during the automatic period must be stored inside the engineer robot or moved back to the Supplier Zone during the automatic period; ● The RMOC will calculate the time used by the Engineer robot of each team to obtain the first projectile from the start of the match in the final tournament, with the award given to the teams whose robots score the shortest time. The top 3 teams of the Senior Category and the top 5 teams of the Junior Category will be selected.
	<p>Smart Standard Robot</p>	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate which team's Standard Robots have activated the Power Runes in the shortest time and scored the highest points in reducing the Base's armor during the automatic period in the final tournament. The top 3 teams of the Senior Category and the top 5 teams of the Junior Category will be selected.
	<p>Smart Aerial Robot</p>	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate the time used by the Aerial Robot of each team to activate the armor-breaking skill from the moment it began flying in the automatic period in the final tournament, with the award given to teams whose robots score the shortest time. The top 3 teams of the Senior Category and the top 5 teams of the Junior Category will be selected.
	<p>Super Standard Robot</p>	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate the successful hit rate and HP deductions inflicted by each team in the final tournament, and sort them from high to low based on the two indicators. The top 3 teams of the Senior Category and the top 5 teams of the Junior Category will be selected.

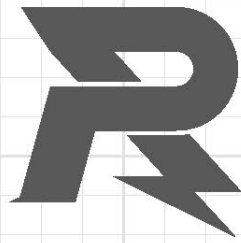
Type	Award	Assessment Criteria
	Best Modification Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● Made significant modifications to the hardware structures or software algorithms of robots, with great improvements made to the performance of the robots; ● The modifications to hardware structures must be aesthetically pleasing.
	Super Projectile Reloader	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The RMOC will calculate the average number of projectiles obtained by each team in the final tournament, and sort them from high to low. The top 3 teams of the Senior Category and the top 5 teams of the Junior Category will be selected.
	Top Tactician Award	<ul style="list-style-type: none"> ● Meets the eligibility criteria for the award; ● The team achieves good team results via tactical operations ● The team’s tactic is instructive to other participating teams and has a positive impact on the overall performance of teams in the competition. ● If multiple teams have used the same outstanding tactic, only the first team to have used it will be considered.

Appendix 3 Safety Instruction

Every team member participating in the RoboMaster 2020 Youth Tournament must fully understand and accept that safety is the most important issue for the sustainable development of the RoboMaster Competition. In order to protect the rights and interests of all team members and the event organizers, and according to relevant laws and regulations, all team members who have registered for the RoboMaster 2020 Youth Tournament will be deemed to have acknowledged and agreed to abide by the following safety terms:

1. All participating team members confirm that they possess the full capacity for civil conduct and can independently create and operate robots. All team members further confirm that, before using any products of the competition organizer SZ DJI Technology Co., Ltd., to create any robots, they will read in detail the RoboMaster 2020 Youth Tournament registration guide, competition regulations, and other relevant rules.
2. During the competition, all team members should make sure that their actions including the creation or modification, testing, and use of robots will not cause any injury or damage to his or her teammates, members of the opposing teams, referees, competition staff, audience, equipment, or the Competition Area.
3. All teams must ensure that the structural design of their robots will not hinder safety inspection during Pre-match Inspection, and agree to fully cooperate with the Pre-match Inspection carried out by RoboMaster's organizers.
4. The team must guarantee that no fuel-driven engines, explosives, high-pressure gases, and energetic chemicals are used.
5. Throughout the R&D stage, preparation stage as well as the competition stage, all team members must pay full attention to potential safety issues, and the team's supervisors must be responsible for instructing and supervising the team on safety issues.
6. The team must guarantee the safety of all the robots. This includes ensuring the "projectile" launchers installed on the robots are safe, and that the projectiles launchers will not cause any harm (either directly or indirectly) to any operator, referee, staff, or audience member.
7. All teams will take sufficient and necessary safety measures during the R&D, training and competition periods regarding any hazardous situations that may occur. These include but are not limited to: preventing the control system from becoming unstable; anticipating every operation step prior to execution to avoid errors or collisions between team members or between robots and team members; prohibiting team members from engaging in solo training and making sure personnel are available as emergency responders to any situation; wearing goggles and helmets; applying the appropriate lock function and adding safety measures such as an emergency switch function to robot systems during commissioning.
8. Teams will be held responsible for all accidents and losses resulting from the technical faults of robots, loss of control of UAVs or any other unexpected circumstances.

9. The materials bought from or provided by the organizer SZ DJI Technology Co., Ltd., such as batteries and the Referee System, must be used in accordance with their instructions. SZ DJI Technology Co., Ltd. will not be held responsible for any injuries that arise from improper use of these materials. Teams will be held responsible for any injuries caused to their own members or any third party and for any property loss arising from creating and operating any robots.
10. All team members must remain in strict compliance with the laws and regulations of the country or region. All team members pledge that their robots will only be used for the RoboMaster competitions and that their robots will not be illegally modified or used for any illicit purpose.



E-mail: robomasteryouth@dji.com

Forum: bbs.robomaster.com

Website: www.robomaster.com

Tel: +86 (0)755 36383255 (GTC+8, 10:30AM-7:30PM, Monday to Friday)

Address: Room 202, Floor 2, Integrated Circuit Design & Application Industrial Park, No. 1089, Chaguang Road, Xili County, Nanshan District, Shenzhen City, Guangdong Province, China