RooboMaster Youth Championship Client Interface Instructions

This version is released on March 23, 2022. The pictures and texts are for reference only. The actual effect and usage are subject to the latest version.

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Note:

* indicates the newly added or adjusted content for the new client in accordance with the rules of RoboMaster 2022 Youth Championship. The client display for primary and junior/senior categories are similar. Specific differences can be found in actual usage.



2. Description

1) Base HP Bar on the Top



HP Deduction **Red Team** -2500 HP **Foreshowing HP Segment** Low HP **Red Team** R 200 HP Low HP segment Armor Value **Display Armor Value Red Team** R 2500 20 **Base Hit by Large Projectile** Red Team R 2500 -20 Armor Value Deducted Temporarily



During the Automatic Movement Phase (the first minute of the match), since both Bases have no armor value, the panel displays "HP".

School Badge

When the Base is frequently attacked in a short period of time or suffers a critical attack, a foreshowing HP segment will appear to indicate the extent of HP deduction.

When the Base's HP is lower than 20%, the remaining HP segment will be dimmed, flashing at a breathing rate.

The current armor value is displayed on the shield icon. A team's Base Armor Value will decrease as when robots are defeated and its Base is hit by a Large Projectile.

When the enemy's Aerial Robot successfully hits the Base with a Large Projectile, the Base Armor Value will be temporarily deducted, with the HP Bar dimmed, a armorbreaking icon and remaining HP diplayed on the panel.

If no robot is defeated or ejected in the Automatic Movement Phase 1, the Base will be invincible when entering the Manual Operation Phase. During Automatic Movement Phase 2, the Base will be invincible. (for junior/senior category)

2. Description

2) Score Board



The score board displays the match number, countdown and score of the current game. In the last 10 seconds of the match, the countdown bar will turn red and flash.

10 seconds before entering the Automatic Movement Phase 2, the countdown number will become larger and yellow, and after the 10-second countdown ends, it will return to the normal digital state (For junior/senior category)

3) Robot Status on the Top



Numbering Profile

HP Bar

The profile display the robot type and status

HP Bar: The HP Bar indicates the current remaining HP, as well as the upper limit of the robot's HP.



Revived after defeat



Invincible after revival



Having Activate the Power Rune



Ejected



Disconnected



Not logged in

2. Description

4) Shooting-Assistance Zone

a. Aim Point



Shooting Assistance Zone consists of an aim point and a heat ring. The upper limit of the robot's barrel heat is set as Q0. Whenever the barrel detects that a projectile is launched, the heat ring will indicate a certain amount of heat increase. When the real-time heat Q1 reaches the limit Q0, the heat limit will be overrun, so the system will suspend the robot from launching projectiles within a certain period of time.

Note: Users can set and adjust the position of the aim point on the RoboMaster APP. The system will record the new position, so that RoboMaster Champion can read the updated aim point when the robot is connected to the system.

b. Barrel Heat Status



Empty Q1=0



Normal 0<Q1<1/2Q0



Yellow 1/2Q0<Q1<3/4Q0



Red

3/4Q0<Q1<Q0





Overheat Q1>=Q0

2. Description

5) My Robot



6) Robot Module Status



Module without scale (robot, client)



Abnormal Normal Module with scales (battery, Wi-Fi)



2. Description

7) Flutter Text

a. Neutral System Information (blue and white background)

Energy/Gearactivable



First Blood

c. Unfavorable Information (red background)

First Blood

8) Marquee Text Zone





Robot Defeat Information [Profile of the defeated robot] + "defeated"

The flutter text mainly indicates information of robot defeat and battlefiled components.

- e.g. Our/enemy's robot defeated
 - Our/enemy's Power Rune activated
 - Our Base is under attack

30/10 seconds to enter the Automatic Movement Phase 2, get ready! (for junior/senior category)

Categorize information by font color

Neutral information - white

Favorable information - green

Unfavorable information - red

The marquee text mainly indicates the acquisition of buffs of both teams, including HP gain, armor value gain and projectile allowance gain.

e.g. Our/enemy receives HP Gain Our/enemy breaks the armor Obtains/automatically receives 25 points of projectile allowance

2. Description

9) Mechanical Arm





a. Use the space key and up/down/left/right direction keys to control the posture of the mechanical arm. When the posture exceeds the limit in a certain direction, the corresponding direction keys will become red.

b. The small panel on the left displays the real-time posture information of the mechanical arm. Users can intuitively view the limit posture of the mechanical arm and adjust their operation in real time.

c. Control the grip/release of the gripper with the space key and left/right mouse button



10) Custom Skills

Unavailable Cancellable





There are [unloaded] and [loaded] skills. The loaded skills are [available]. When one skill is [released], other skills become [unavailable]. When the skill is cancelled, it enters the [cooling] state, while other skills returning to the [available] state.

2. Description

11) Prompts in Full Screen

a. Panelty Prompt





b. Revival Prompt



c. Low HP Prompt



1. Tab panel - Press/Release the tab key to display/cancel the panel

1) Overview



2) Description

a. Robot Information

	#	Robot pro	file Attack	Buff Armor	Value	
ſ	1	Standa	rd 1.1	Ox	0	
		0 / 2	00			
	Robot	Robot Profile&Status	HP Information	Attack Buff Factor	Armor Value	
	Numbering	e.g. survived, revived, ejected, disconnected, not logged in	Robot Type Current HP/ Maximum HP	Receive through activating the Power Rume	Receive through recognizing the Defense Marker 'S' in Automatic Movement Phase	

b. Custom program configuration

Custom program configuration					
1 机器人识别打击	2 开启机器人识别	3 寻红线到能量机关	4 开启机器人识别 于启机器人识别	E	follow_l
jihuoNen	follow_l	R机器人识别打击	■ 机器人识别打击		follow_line_blue-667
jihucNengLiangKg	follow_line_blue-667	机器人识别打击(1)	机器人识别打击(2)		

When a program is loaded, the corresponding key will light up, with the upper line displaying the first 8 characters of the program name, and the lower line the first 20 characters of the program description.

When the program is not loaded, the corresponding key will turn gray, indicating that the skill is unavailable.

2. ~ Key panel - Press/Release the ~ key to display/cancel the panel



The module status panel shows the status of the camera/motion controller/ transmitter/ front, rear, left, and right chassis armors

Red/green font indicates an abnormal/normal module.



3. Settings panel - Press/Release the P key to display/cancel the panel



[Hardware settings] Adjust by the slider Mouse sensitivity and headset

volume

[Module settings] Enable or disable the display and operation of the mechanical arm and its loading mode Custom Skills: Choose to use APP/SDK skills

[Aim point coordinates] It can read the aim point coordinates set on the RoboMaster APP and make corresponding adjustments on the FPV

1. Victory Animation

a. Victory prompt



c. Draw prompt



b. Defeat prompt



d. Abnormal termination prompt



[Result of victory and defeat] Victory prompt for the winner, and defeat prompt for the loser

[Draw] End in a draw

[Termination] The referee terminates the match and the current match is ineffective

2. Settlement panel

