

Robomaster 机甲大师赛步兵车样版

Robomaster Competition Infantry Robot Demo

电子组总结报告

Summary Report by E-Group



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电子硬件汇总

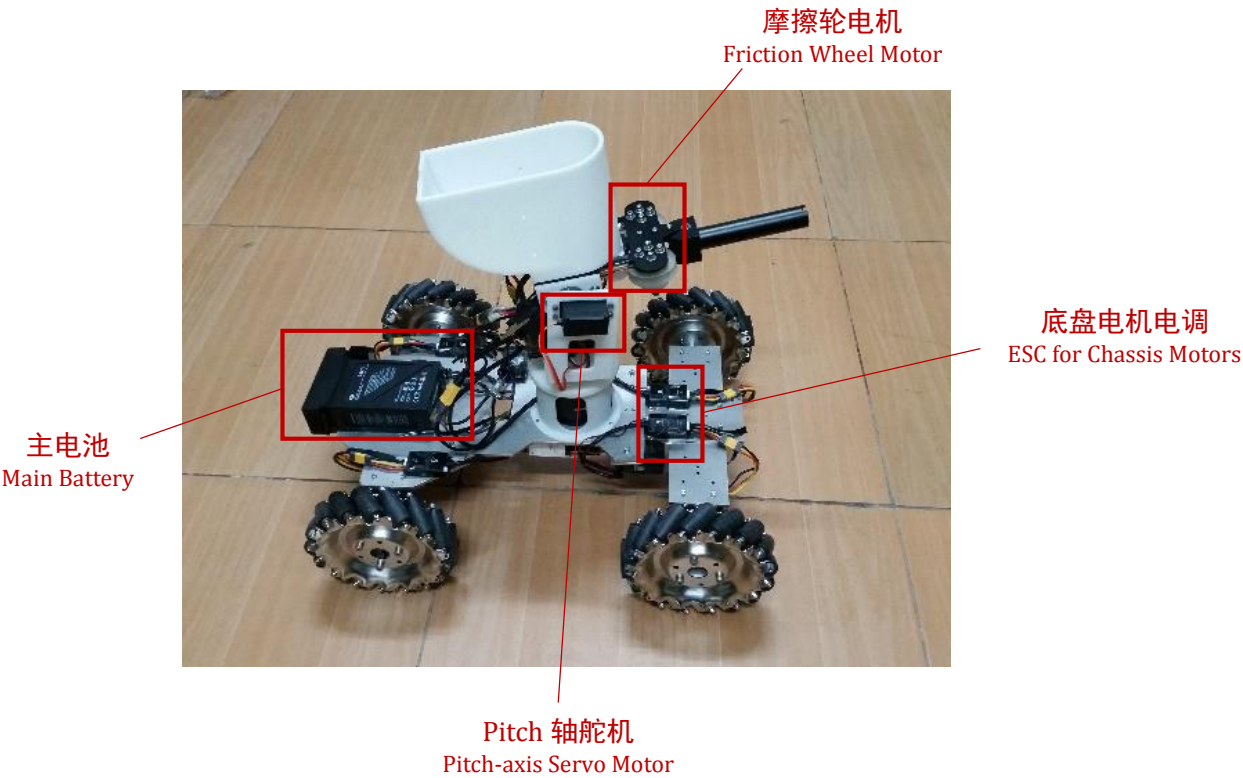
Electronic Hardware Overview

底盘 Chassis				
1	底盘电机 Chassis Motors	RM3508	x4	
2	底盘电机电调 ESC for Chassis Motors	C620	x4	注意！初次使用需配置 ID，电调上绿灯闪烁次数即为 ID 号（详见《RM C620 无刷电机调速器使用说明》） NOTE! A unique ID have to be allocated for each ESC, the ID number is indicated by the green flashing LED on the ESC.
3	底盘主控 Chassis Controller	RM development board STM32F427IHH6	x1	
云台 Pan-tilt				
4	Yaw 轴电机 & 电调 Yaw-axis Motor with ESC	RM6623	x1	建议换成 GM3510 小型云台电机 Recommendation: Change to GM3510 mini pan-tilt motor
5	Pitch 轴舵机 Pitch-axis Servo Motor	DSS-M15S	x1	建议换成 GM3510 小型云台电机 Recommendation: Change to GM3510 mini pan-tilt motor
6	摩擦轮电机 Friction Wheel Motor	RM2312	x2	
7	摩擦轮电调 ESC for Friction Wheel Motor	Skywalker-30A	x2	注意！电机与电调 3 根线的连接顺序会影响电机的正反转 Note! The connection of the 3 wires between motor and ESC will affect the motor's rotary direction.
8	拨弹电机 Bullet Delivering Motor	RM2006	x1	未与弹舱底端固定，会绕线
9	拨弹电机电调 ESC for Bullet Delivering Motor	C610	x1	与 C20 使用方法类似 Similar to C20
10	云台主控 Pan-tilt Controller	RM development board STM32F427IHH6	x1	

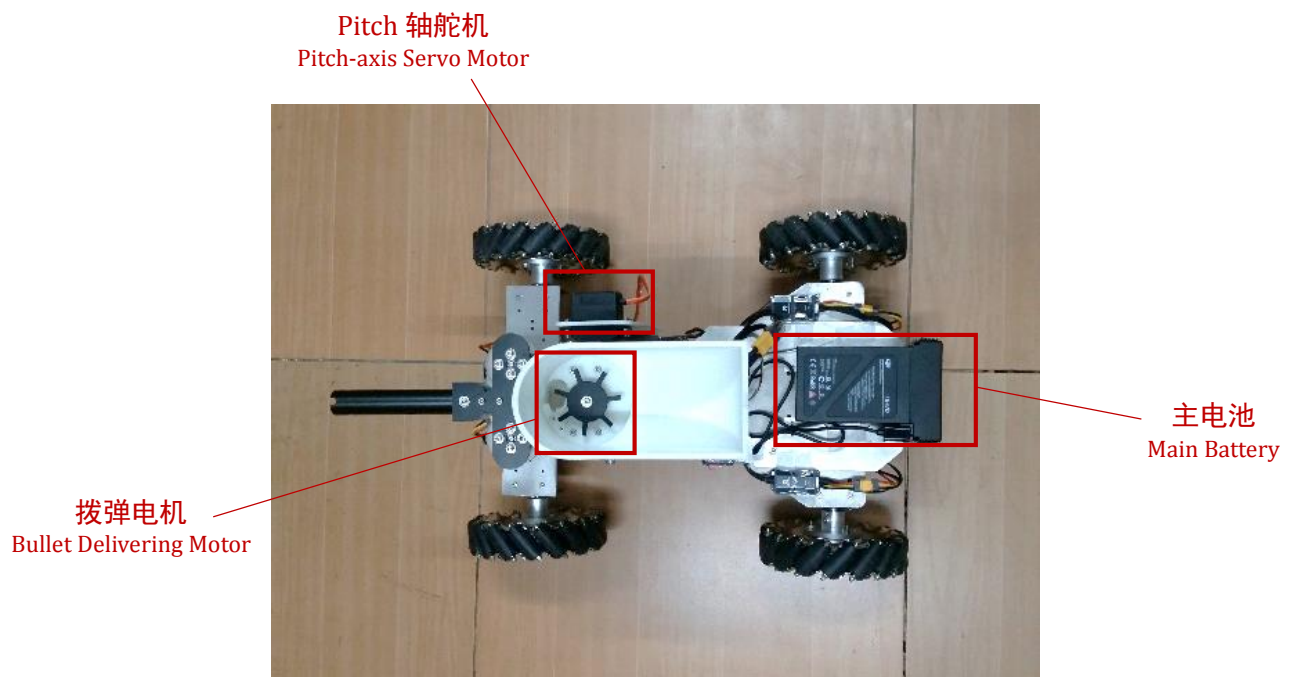
遥控 Remote Control				
11	遥控器 Remote Controller	DT7	x1	连接电脑需要安装遥控器驱动， 并手动安装 DJI USB Virtual COM 驱动 Requiring DJI WIN Driver installation and DJI USB Virtual COM Driver manual installation for communicating with PC
12	遥控接收端 Remote Control Receiver	DR16	x1	与底盘主控相连 Connecting to chassis controller board
电池 Battery				
13	主电池 Main Battery	TB470	x1	电池架暂缺 Battery Holder temporarily out of stock

结构布局 Structure Layout

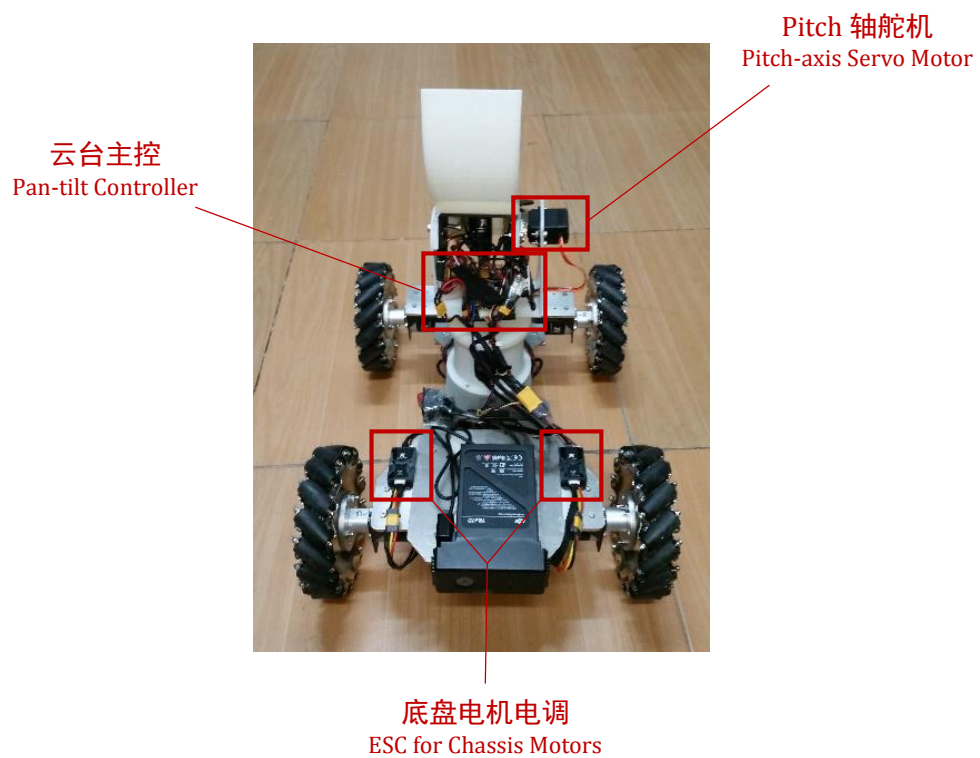
侧视图
Side View



俯视图
Top View

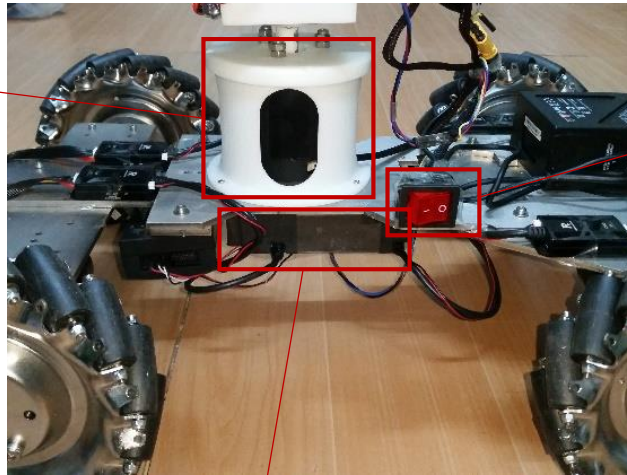


后视图
Rear View



放大图
Zoom-in View

Yaw 轴电机&电调
Yaw-axis Motor with ESC

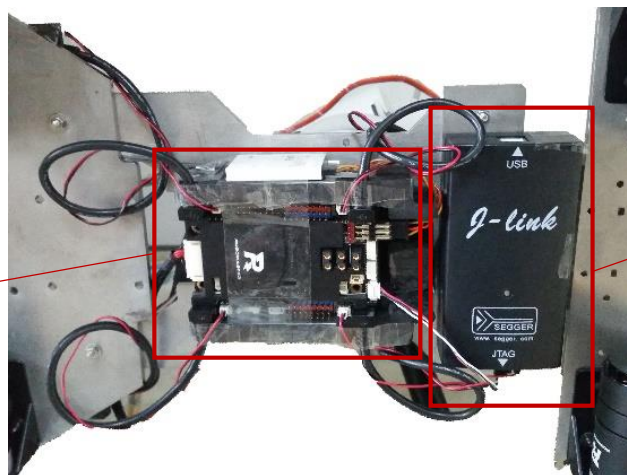


电源开关
Main Switch

底盘主控
Chassis Controller

底视图
Bottom View

底盘主控
Chassis Controller



JLink 调试器
JLink Debugger

硬件连接

Hardware Connection

