

YAHBOOM 390D7B97 Jetbot Mini Ros Smart Robot Instruction Manual

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YAHBOOM
Based on JETSON NANO 4 GB
390D7B97 Jetboats Mini Ros Smart Robot
Instruction Manual



AI visual recognition Deep learning Get start with ROS robot system



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Version Configuration Description

Without Jetson NANO	With Jetson NANO 4GB
	
It is suitable for users who already have JETSON NANO 2GB or 4GB board.	A full set of configuration is ready to play. It is suitable for users who do not have Jetson NANO board.

A series of AI functions

Face Detection / Color Recognition / Face Tracking Color Tracking / Object Recognition Autopilot / PID Debugging



JETBOT MINI Function List



The above functions with " ♦ " all provide case tutorials with ROS system, and other functions also provide case tutorials with the ordinary development environment

Product comparison

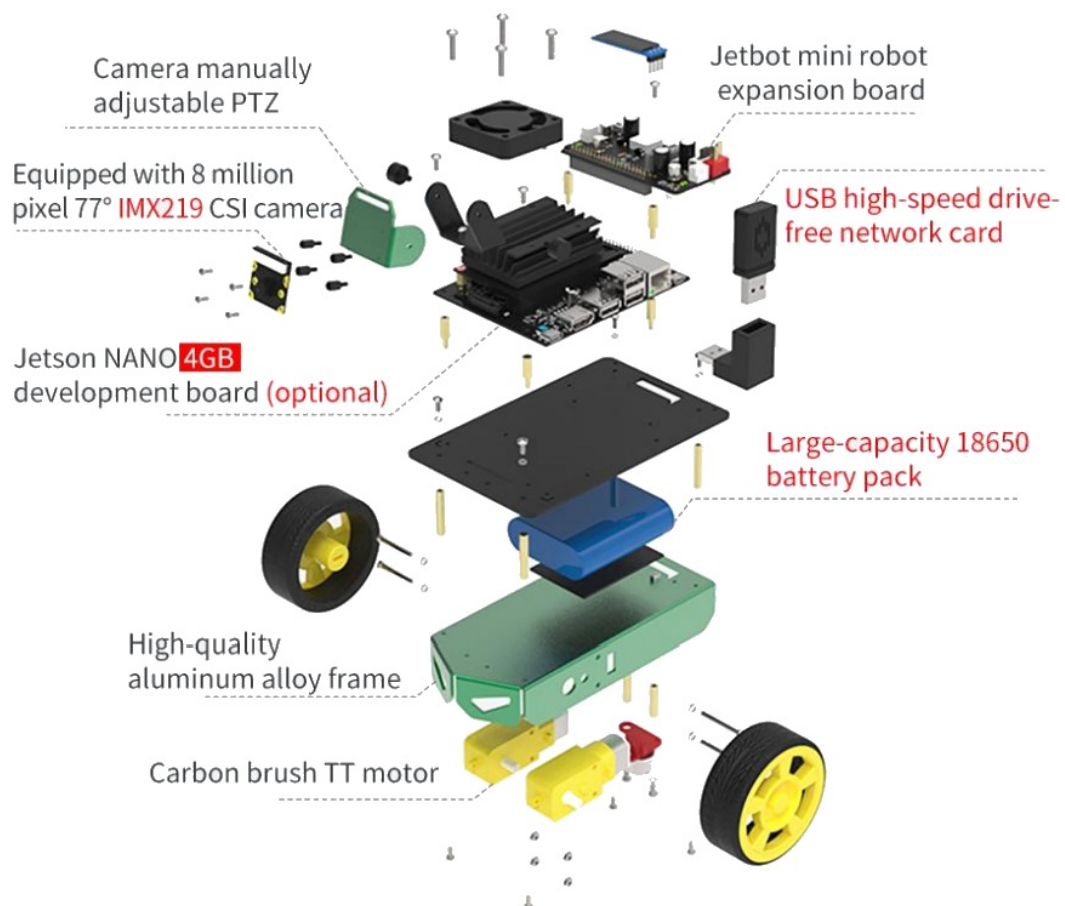
	 JETBOT-MINI	 JETBOT
Main control board	JETSON NANO 4GB	
UBUNTU version	UBUNTU18.04LTS	
ROS version	melodic	None
Programming language	Python	

AI function	Gesture recognition/face detection/face tracking/object recognition/Gesture recognition/face detection/object recognition	Color recognition/color tracking/object following/autonomous obstacle avoidance Color recognition/color following/autopilot Autonomous driving/model training
OLED	0.91 inch 12832 OLED	
Wireless network card	USB 3.0 free drive WIFI Wireless network card 2.4G/5G1300M	M.2 interface 8265AC NGW Dual-band dual-mode wireless network card 867M
Remote control method	Mobile APP/Handle/Webpage/ROS keyboard control	Mobile APP/handle/web control
Communication method	WIFI LAN	WIFI LAN
Safety protection	Surge protection/Reverse connection protection/Motor servo locked/Short circuit protection	Surge protection/reverse connection protection/Servo locked/short circuit protection
Drive method	Dual motor differential	
Power supply	12.6V power lithium battery pack 2000mah (T-type interface, with over-current protection)	
Wheel type	wheel	track
Chassis	Aluminum alloy chassis	Aluminum alloy chassis
Motor	TT DC Gear Motor Dual output shaft/reduction ratio 1: 48	L-type 370 motor 12V260 RPM strong magnetic high torque
Camera platform	One DOF manual rotation	Three DOF electric control
Servo	None	R0005 bus metal servo*2
Sensor	On-board LED lights	On-board LED light/RGB light bar
Purchase Advice	Basic version is cost-effective. Based on the development of the ROS system, it not only learns the introductory course of ROS robot, but also can be used to learn artificial intelligence and image processing.	Advanced version, comes with top configuration, better AI computing power. It can deep learning artificial intelligence, image processing algorithms, AI model training and other visual AI gameplays.

WHAT CAN YOU LEARN FROM JETBOT MINI ROBOT?

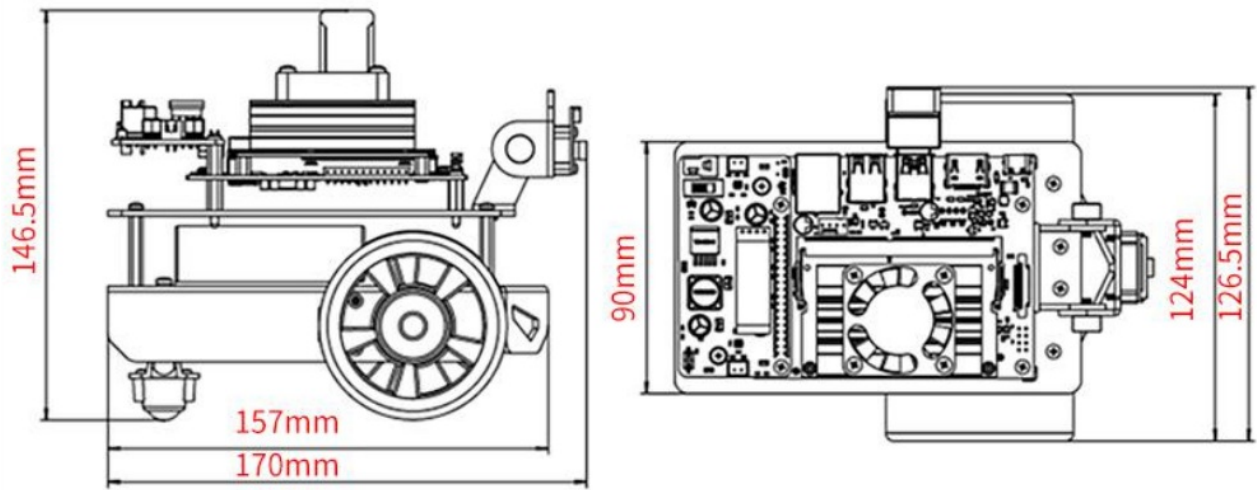
		
ROS operating system	OpenCV image processing	Python programming
		
Machine Vision=applications	Deep learning	PID control

Hardware Configuration



Product specifications

Product Size



Product parameter

Main control board	JETSON NANO 4GB	Working time	180 mins
microprocessor	Quad-core ARM a57+128-core N VI DIA Maxwell	Power interface	T-type power supply interface D C4.0.1.7 charging port
AI computing power	472GFLOPS	Remote control method	Mobile APP/PC computer
Operating system	Ubuntu18.04LTS	Communication	WIFI network (LAN/AP)
Input 1	8 million pixels 77 ° IMX219 CSI camera	Output	OLED display/buzzer TT motor interface/ servo interface
Safety protection	Over-current protection	Motor scheme	Carbon brush TT motor
Power supply	12.6V 2200mah	Car material	Anodized aluminum alloy
Assembled weight	708g	Assembled size	170.5'126.5'146.5mm

Shipping list

Item List

Optional		For 4GB version		
 JETSON NANO 4GB (SUB)		 U disk	 Expansion board	 77°imx219 Camera (800w)
 Camera bracket +Camera fixed	 USB3.0 adapter	 Cooling fan	 Frame bottom plate	 18650 battery pack +Velcro
 1300Mbps USB drive-free network card	 Tire	 TT motor	 Frame top plate	 Screw package + screwdriver
 Universal wheel	 Charger	 12832OLED screen		



Tutorial:
Yahboom Jetbot MINI Robot

Documents / Resources

	YAHBOOM 390D7B97 Jetbot Mini Ros Smart Robot [pdf] Instruction Manual 390D7B97, 390D7B97 Jetbot Mini Ros Smart Robot, Jetbot Mini Ros Smart Robot, Mini Ros Smart Robot, Ros Smart Robot, Smart Robot, Robot
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References

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