By Yahboom

Yahboom ROS Transbot Robot with Lidar Depth camera support Python programming Movelt 3D mapping for Raspberry Pi 4B

4.85/5.0 | 13 reviews

Transbot is a crawler educational robot developed based on the ROS(robot operating system). It uses Python 3 as the programming language. And comes with high-performance hardware configurations such as Raspberry Pi 4B board, lidar, high-definition camera/depth camera, etc., which can realize robot motion control, remote communication, mapping navigation, following, avoiding, autopilot, robotic arm MoveIt simulation, multi-robot queue, multi-robot navigation and so on. We will provide many ROS courses and teaching video to help user get started with ROS easily.

Features:

Intimate design and service: The chassis has been assembled before shipment. The TF card comes with Transbot dedicated system files. Only need to assemble the Raspberry Pi, camera and other parts, and you can quickly enjoy it.

Professional technical support and after-sales service.

Stable hardware configuration realizes interesting functions:

Based on lidar: Obstacle avoidance, following, 2D mapping navigation, multi-robot navigation, etc.

Based on depth camera: 3D mapping, point cloud image processing, KCF target

visual following, etc.

Based on a HD camera: High-brightness searchlight, 2 DOF PTZ flexible rotation.

ROS operating system: Based on the ROS robot operating system, we cleverly use Rviz, MoveIt, and Qt toolboxes to realize the joint control of the robot arm MoveIt simulation and the real machine.

Cross-platform interconnection control: It support a variety of different control methods, AI-enabled APP, FPV real-view visual handle remote control, JupyterLab online programming, and robot operating system control.

Detailed video courses: We provide 64-hours video tutorials and detailed documents. Whether you are a beginner or an experienced ROS player, you can easily use Transbot robot.

TRANSBOT
ROS Educational Robot

Lidar scanning avoiding / Depth camera visual recognition /
3D mapping navigation

Massive video courses

◇ 64 original video tutorials

APP control

◇ Control APP (iOS/Android)
◇ Map Navigation APP (Android)

Top hardware configuration

◇ Raspberry Pi 4B board
◇ SLAM A1 Lidar
◇ Astra Pro depth camera

Funny function

◇ 3D/2D mapping navigation
◇ Visual SLAM image processing
◇ Path planning/APP mapping navigation

This product is the **Raspberry Pi 4B** version Transbot,
if you need the **JETSON NANO** version Transbot, please click here

What is Transbot?

Transbot is a crawler intelligent robot based on the ROS robot operating system. It is equipped with high-performance hardware configurations such as Raspberry Pi 4B, Lidar, HD camera/depth camera, etc., which can realize robot motion control, remote control communication, mapping navigation, Follow obstacle avoidance, autonomous driving, robot MoveIt simulation and other applications. A lot of ROS courses and teaching video will be provided, which will help you easily get started with ROS.

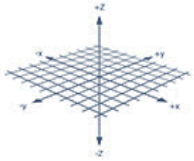
ROS operating system

Artificial intelligence

Raspberry Pi 4B

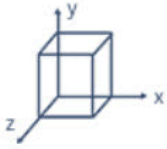
Path planning automatic navigation

Lidar scan map



3D real-world map navigation

Visual recognition target tracking



3D analysis of depth images

OpenCV image processing

Multi-color visual tracking

Mobile APP mapping navigation

Python/C++ programming

MoveIt simulation

Indoor navigation dynamic avoiding

Cross-platform interconnection control

Real person video manipulation

Built-in PID controller

Massive video tutorials

Detail tutorials

Technical support

ROS robot model selection suggestions

The difference of ROS robot models in our store mainly lies in the difference of structure and shape. Users can choose models according to the use environment and learning direction. At present, Ackerman steering chassis and Mecanum wheel chassis are popular choices. Ackerman is the standard structure of modern cars, and Mecanum wheel is the standard choice of omnidirectional mobile. If you want to explore the field of automatic driving in the future, Ackerman chassis structure is recommended. All of the following models can be equipped with depth cameras and multiple lidars, all of which meet the requirements of mapping navigation, depth learning, 3D vision, robot formation and other directions. Each vehicle model provides corresponding video tutorials, which can meet the requirements of zero basic introduction and improvement.

Click to buy  ROSMASTER X1	Chassis	Pendulous suspension(M)	Tire	Non-slip rubber wheel	Motor	520 Motor *4
	Motor reduction ratio	1:30	Robotic arm	No	Voice interaction	Yes
	Lidar	SLAM A1/ YDLIDAR X3	Camera	Astra Pro depth camera	Level	ROS basic learning
Click to buy  ROSMASTER R2	Chassis	Ackerman steering	Tire	Racing rubber wheel	Motor	520 Motor *4 Metal servo *1
	Motor reduction ratio	1:19	Robotic arm	No	Voice interaction	Yes
	Lidar	SLAM A1/ YDLIDAR 4ROS	Camera	Astra Pro depth camera	Level	Autopilot/ Competition
Click to buy  ROSMASTER X3	Chassis	Pendulous suspension(M)	Tire	Mecanum wheel(M)	Motor	520 Motor *4
	Motor reduction ratio	1:30	Robotic arm	No	Voice interaction	Yes
	Lidar	SLAM A1/ SLAM S2L	Camera	Astra Pro depth camera	Level	Omnidirectional movement/ROS deep development
Click to buy  ROSMASTER X3 PLUS	Chassis	Pendulous suspension(L)	Tire	Mecanum wheel(L)	Motor	520 Motor *4
	Motor reduction ratio	1:56	Robotic arm	6DOF	Voice interaction	Yes
	Lidar	YDLIDAR 4ROS	Camera	Astra Pro depth camera	Level	University research/Mobile capture
 TRANSBOT	Chassis	Crawler	Tire	Nylon track	Motor	520 Motor *2
	Motor reduction ratio	1:56	Robotic arm	3DOF	Voice interaction	No
	Lidar	SLAM A1	Camera	Astra Pro depth camera	Level	Mobile grabbing/With off-road ability

Based on Raspberry Pi 4B board

Powerful AI computing power

Raspberry Pi 4B with powerful AI computing power and supports users to expand more complex functions.

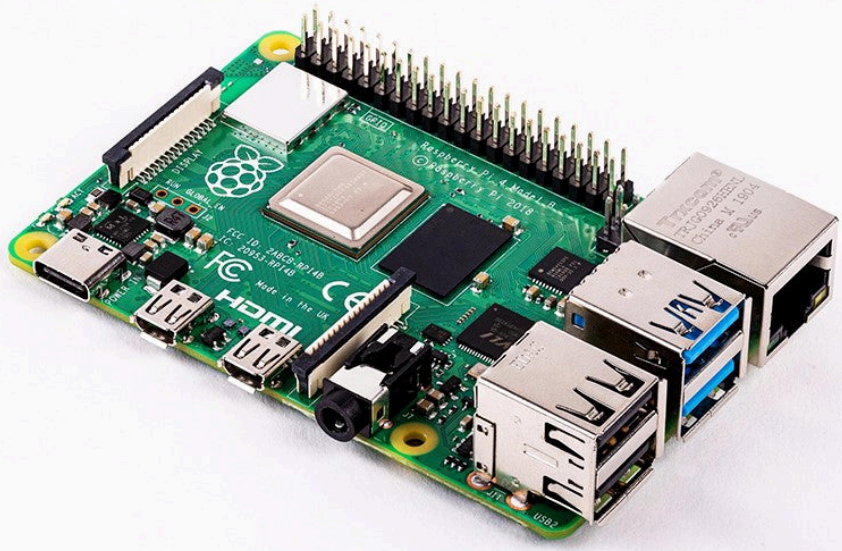
CPU

64-bit 1.5GHz Quad-core
(28nm process)

GPU

Broadcom VideoCore VI
@ 500MHz

4GB / 8GB memory versions are officially recommended, and 2GB / 1GB memory versions are not recommended.



Based on ROS robot operating system

ROS (Robot Operating System) is an open source operating system suitable for robots, and it is mainstream robot development framework in the world. It makes robot development become easier by providing complete solutions from drivers to algorithms to development tools.

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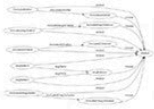
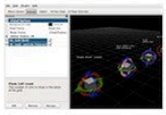


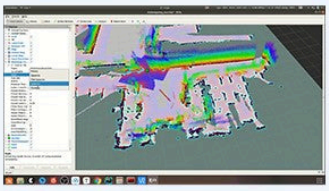
Communication mechanism



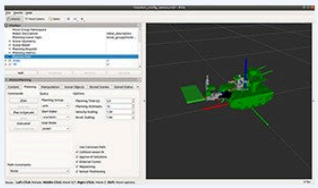
Development tools

Application function

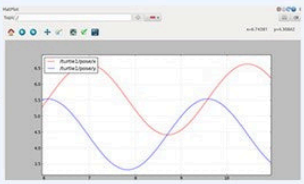
Ecosystem



3D visualization tool--Rviz



Robotic arm motion planning--MoveIt



QtTool box--rqt_plot/ rqt_graph

Option description

VS

HD camera

The high-definition camera platform can realize rotation of up, down, left and right, and equipped with high-power LED spotlights. color tracking and automatic driving can be realized easily.

Astra Pro Plus depth camera

The depth camera platform supports left and right rotation and up and down manual adjustment, which can not only realize all the AI visual functions, but also realize advanced functions such as depth image data processing and 3D mapping navigation.

3DOF Robotic arm

Any configuration can be equipped with a robotic arm, which can realize flexible grasping of objects and MoveIt simulation control robotic arm.

7-inch HD touch screen

Any configuration can be equipped with a this touch screen. The LCD screen is a convenient configuration, which is convenient for users to debug ROS robots.

Raspberry Pi 4B development board

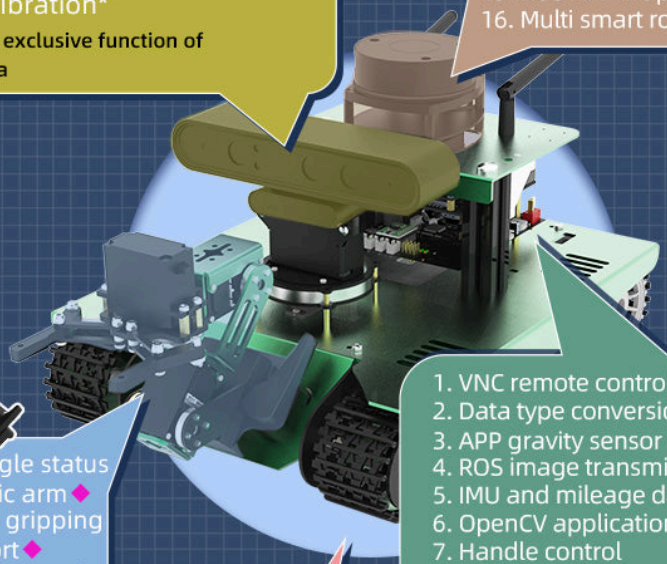
Raspberry Pi 4B board is the main control of the robot operation, which is indispensable. Users who have this board can not choose it. (it is recommended to use raspberry Pi 4B 8GB, with sufficient memory and high cost performance. 4GB/2GB / 1GB memory version is not recommended)

Transbot Function List

1. WEB view ROS camera image◆
2. RGB visual tracking and Lidar avoiding
3.rtabmap 3D visual mapping *
4.rtabmap 3D visual navigation *
5. Deep vision KCF follow *
6. AR tag pose estimation
7. AR special effects visualization◆
8. Color tracking◆
9. Object following◆
10. QR code creation
11. QR code recognition◆
12.Visual tracking autopilot◆
13.Bone detection*
14.Finger follow*
15.Camera calibration*

PS: "*" means exclusive function of Depth Camera

1. Lidar scanning and mapping★
2. Gmapping mapping algorithm
3. Hector mapping algorithm
4. Karto mapping algorithm
5.Cartographer mapping algorithm
6. RRT exploration and mapping
7. Lidar fixed-point navigation★
8. Lidar multi-point navigation
9. TEB and DWA path planning
10. Lidar obstacle avoidance◆
11. Lidar guards◆
12. Lidar follow◆
13. Robot patrol and avoid obstacles◆
14. ROS APP navigation★
15. ROS APP mapping★ NEW
16. Multi smart robot car navigation



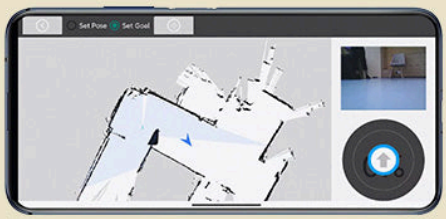
1. Read the angle status of the robotic arm◆
2. Robotic arm gripping and transport◆
3. APP/handle control robotic arm◆
4. MoveIt robotic arm simulation

PS: The above functions need to be equipped with a robotic arm

1. One-click download by serial port
2. Motor over-current protection
3. Six-axis attitude sensor
4. Battery voltage detection
5. Voltage alarm

1. VNC remote control
2. Data type conversion
3. APP gravity sensor control◆
4. ROS image transmission and control
5. IMU and mileage data release
6. OpenCV application and tutorial
7. Handle control
8. Set static IP/open hotspot mode
9. Multi-machine communication configuration
10.SSH remote control
11. Keyboard node control
12. rqt real-time control PID
13. Linear velocity and angular velocity calibration
14. Robot ROS serial communication
15. jupyter lab remote control
16. Multi smart robot car synchronous control NEW
17. Many smart robot car lined up to perform NEW

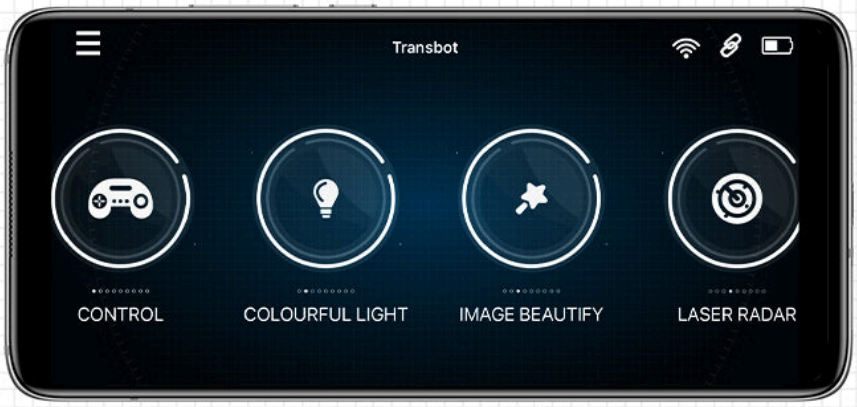
The above functions with "◆" can be remotely controlled in YahboomRobot APP



The above functions with "★" can be remotely controlled in the ROS Robot APP

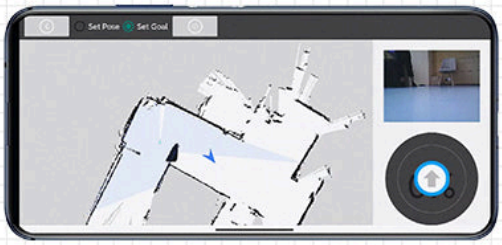
Cross-platform interconnection control

01



YahboomRobot Control APP (iOS+Android)

02

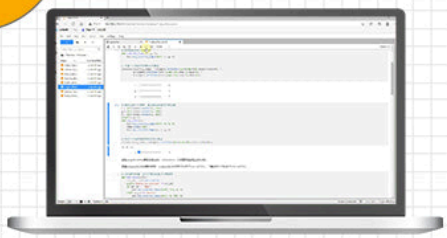


ROS Robot Mapping Navigation APP (Android)

03

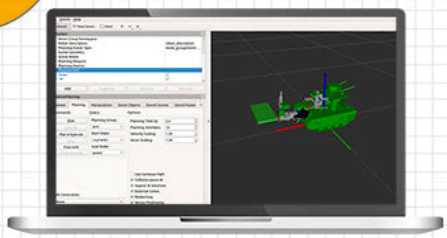
Handle control
(standard configuration for any version)

04



Jupyter Lab webpage online programming control

05

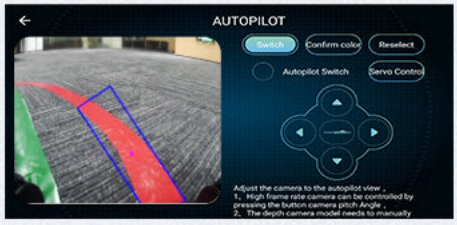


ROS system control

YahboomRobot APP

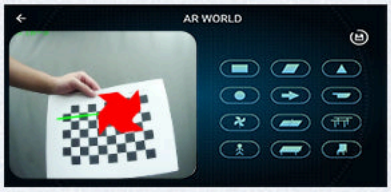
Built-in AI gameplay, quickly experience the funny of Transbot remote control.

APP control interface



Autopilot interface

Lidar interface

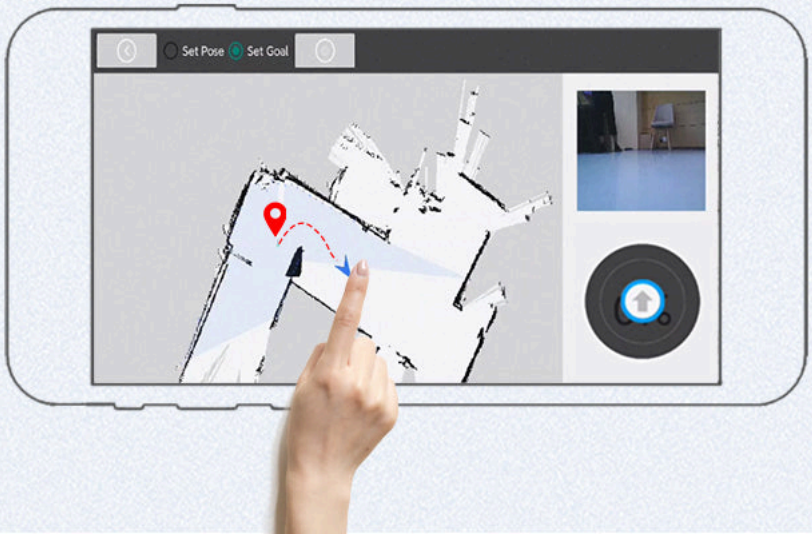


AR reality augmented interface

Intelligent patrol interface

ROS Robot Mapping Navigation APP

Transbot can realize functions such as map creation, navigation, and image viewing through APP.

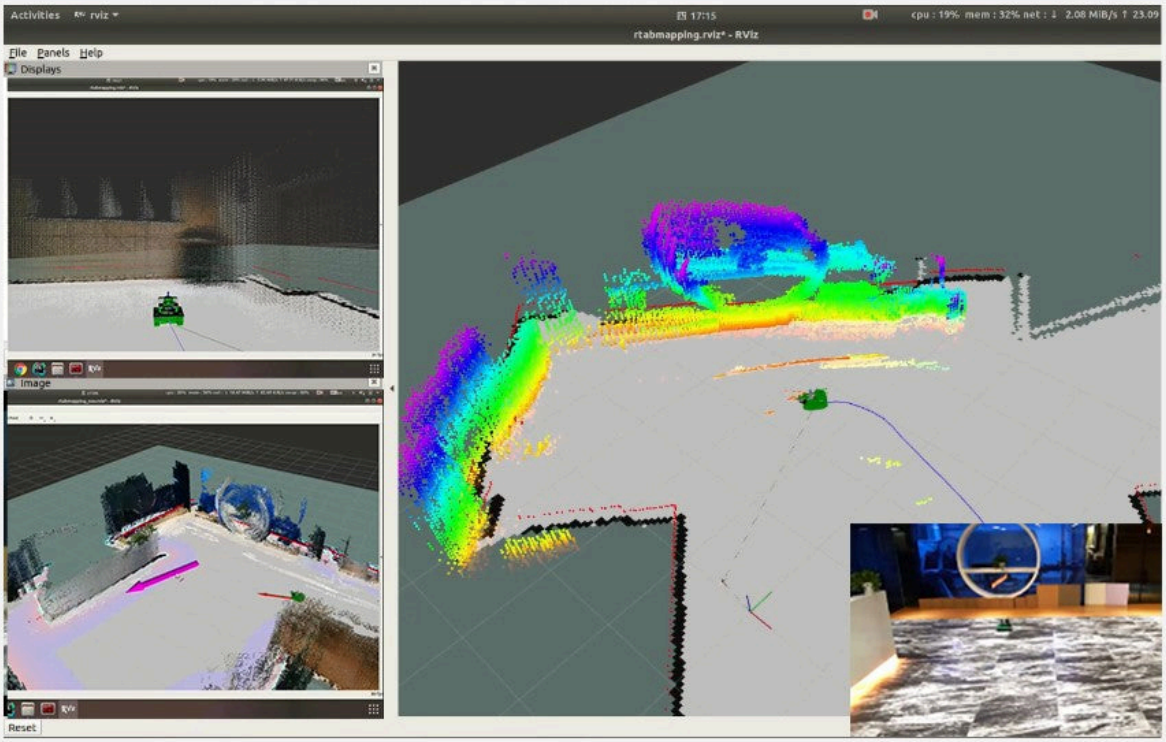


Introduction to key functions

P1 RTAB-VSLAM 3D visual mapping and navigation

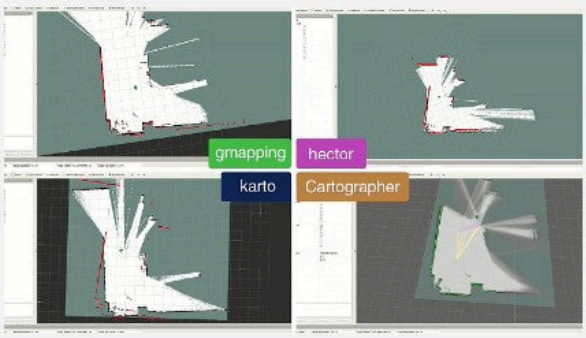
Depth camera exclusive function

Support 3D mapping navigation technology (rtab) containing pure vision and visual radar fusion. Transbot robot can navigate and avoid obstacles in the 3D map, and supports global relocation.

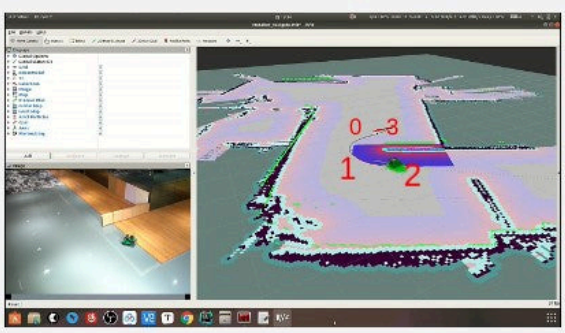


P2 Lidar mapping and navigation

Support gmapping, hector, karto, cartographer and other algorithms to create maps. Support path planning, single-point and multi-point autonomous navigation.



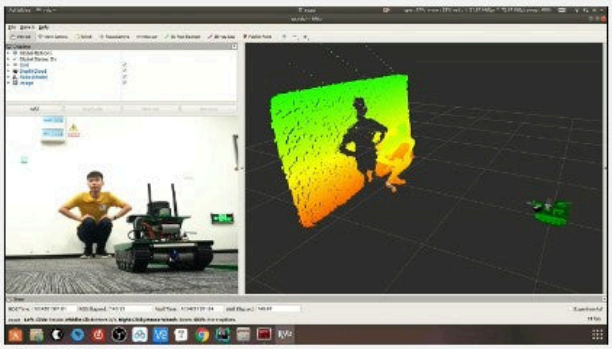
Four algorithms for mapping

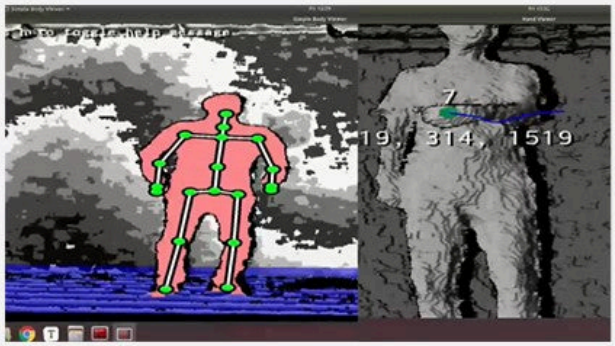


Autonomous navigation for path planning

P3 Depth image data Point cloud image

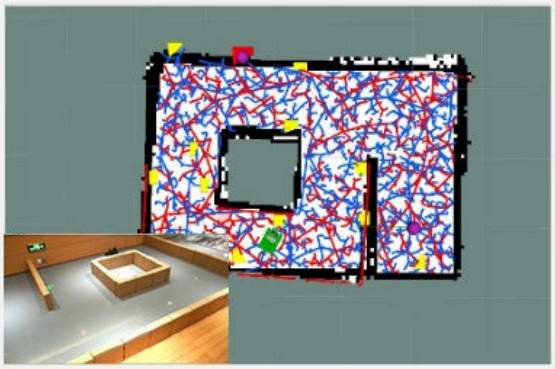
Quickly obtain image data such as camera depth map, color map, and skeleton through the corresponding API.





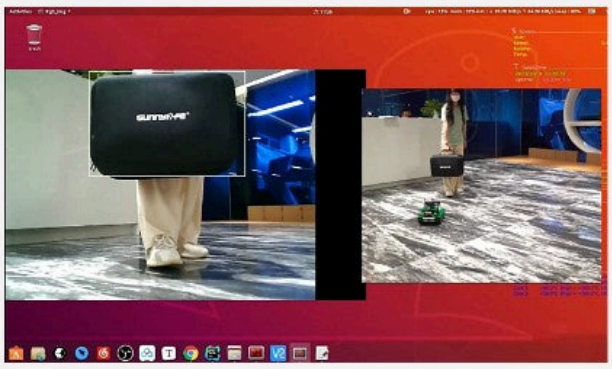
P4 RRT autonomous exploration and mapping

No need to control the robot manually, and the RRT algorithm is used to autonomously complete the exploration and construction of maps, save the map, and return to the starting point.



P5 KCF goal follow

Based on the image related KCF filter algorithm, any follow target in the image can be selected.

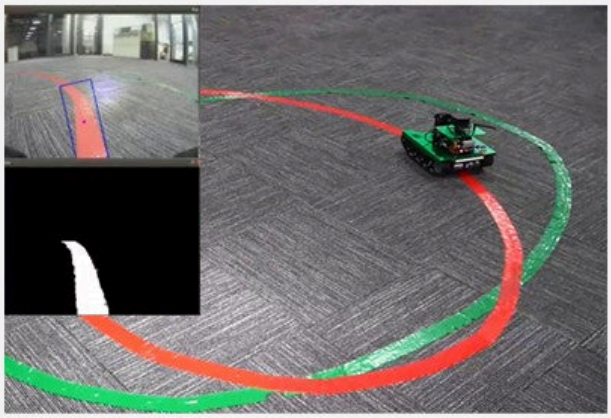


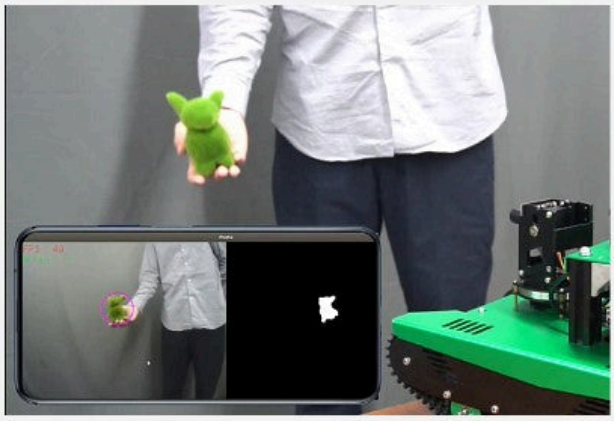
P6 Autopilot

Support custom color selection, the robot can automatically recognize the color and drive forward.

P7 Color recognition/ tracking

Select the color through the screen and let robot track the target color.



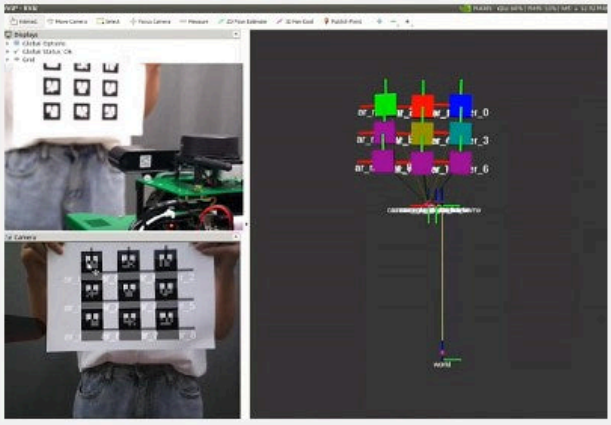


P8 AR tag recognition

Support 2D code label dynamic tracking detection, 2D code posture position coordinate acquisition, support multiple 2D code recognition at the same time.

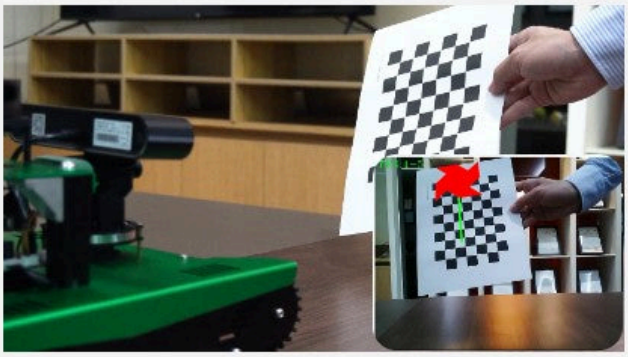
P9 Visual image beautification

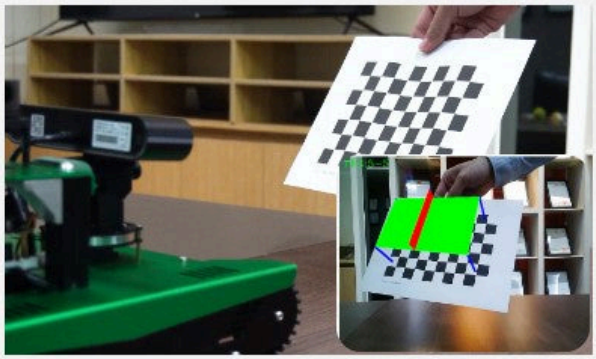
Through OpenCV, the video image is converted to achieve the effect of image beautification.



P10 AR reality augmentation

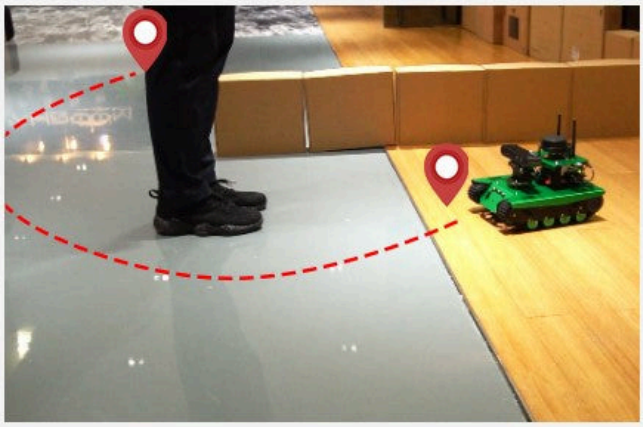
Select the corresponding graphics through the APP, and let the graphics appear on the checkerboard paper through AR enhancement technology.

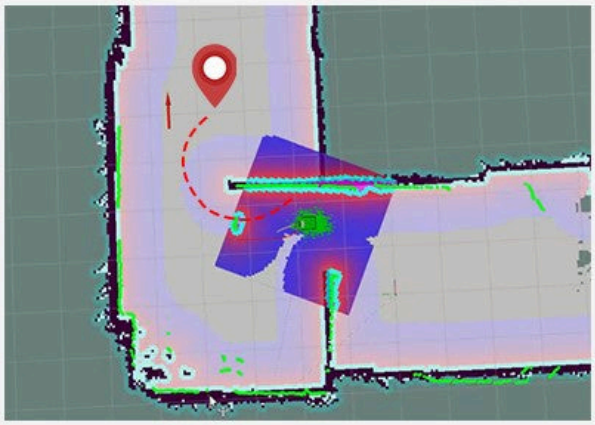




P11 Lidar obstacle avoidance

Lidar detects the surrounding environment in real time and plans a path to avoid obstacles.



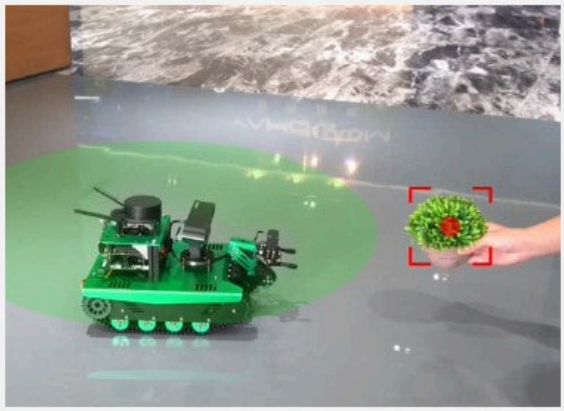


P12 Lidar tracking

Lidar scans and detects the environment, and selects targets that are close to follow to move.

P13 Lidar guard

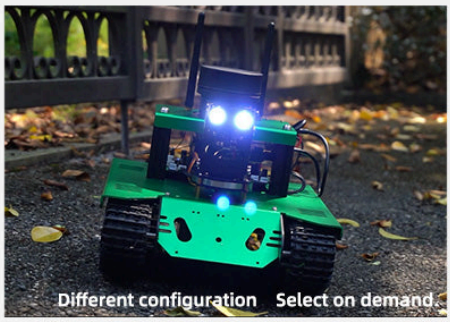
Targets that are closer to the radar will be locked, and the front of the robot car will always face this target.



P14 Searchlight

HD camera exclusive function

Equipped with high brightness spotlights, the lights rotate with the 2DOF platform.



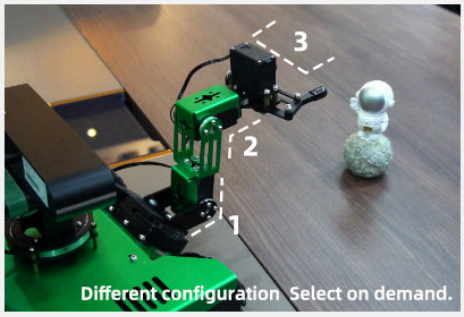
P15 Colorful taillights

Light bar at the rear of the robot car can achieve various magical lighting effects.

P16 3 DOF robotic arm

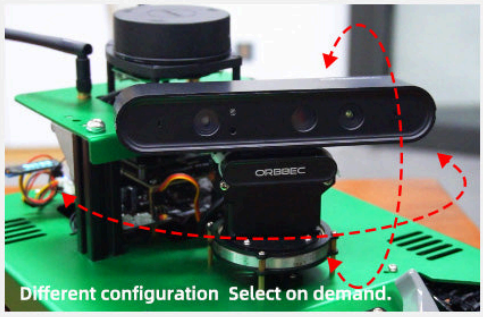
robotic arm exclusive function

3 DOF robotic arm allows the car to realize grasp objects.



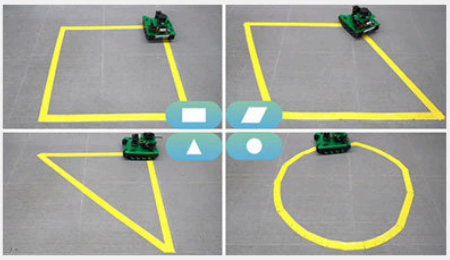
P17 Electric rotating platform

The depth camera supports electric left and right rotation and manual adjust up and down. The HD camera supports electric rotation up, down, left and right.



P18 Intelligent patrol

Select the route through the mobile APP, and the car will patrol according to the route.



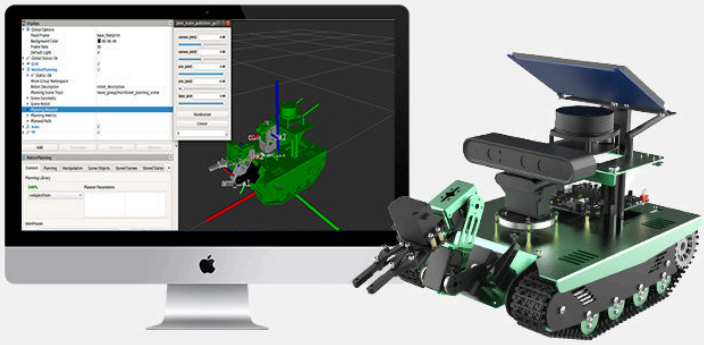
P19 Strong obstacle crossing ability

The large-size tracked chassis allows Transbot to have better obstacle clearance capabilities.

P20 Movelt robotic arm simulation control

Robotic arm exclusive function

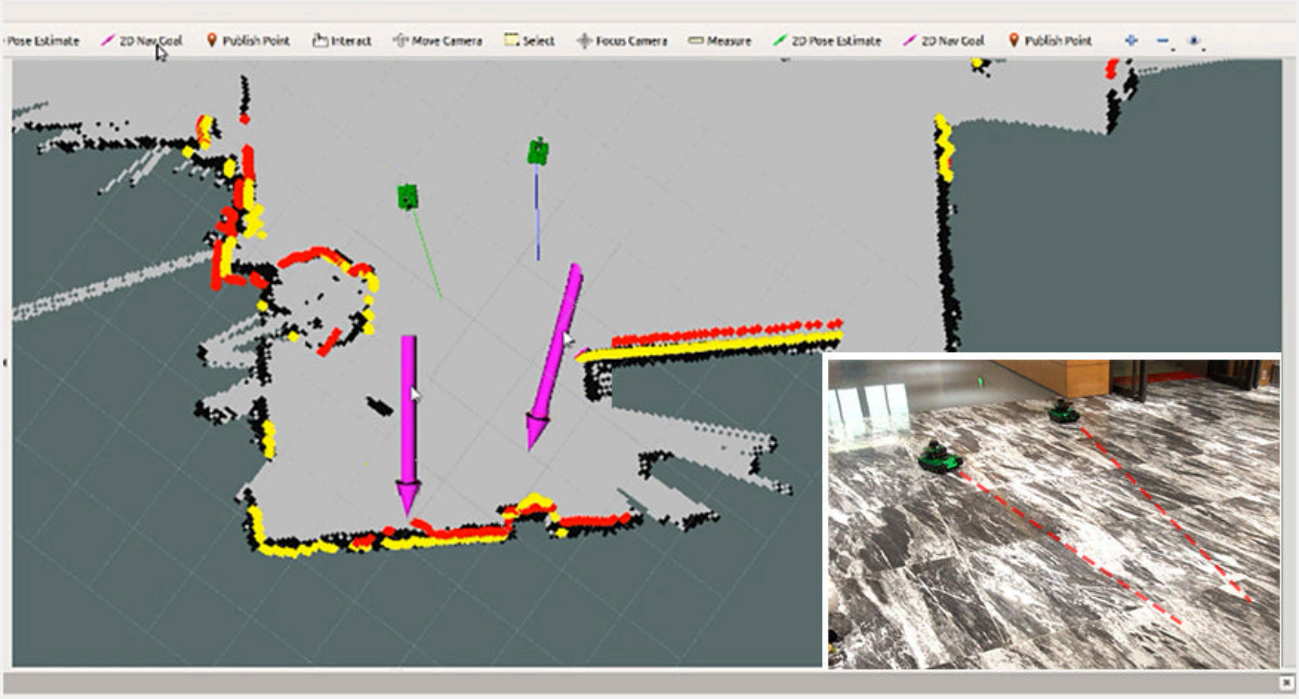
After Transbot is equipped with a robotic arm, the Movelt provided by the ROS system can be used for motion simulation control. Movelt is a ROS software package specially developed for mobile operating platforms, inheriting achievements in the fields of motion planning, three-dimensional perception, kinematics, motion control and navigation.



Help

P21 Lidar multi robotic cars navigation

It can control more than two robotic cars to navigate and locate in the same map. In the process of navigation, if there are obstacles within the detection range, the robot can replan the route for obstacle avoidance.



P22 Multi robot car synchronous control

The mode key of the handle can be used to select the vehicle to control separately or control multiple robot car to complete the action synchronously.

P23 Multi robot car queue performance

Use the handle to control the robot movement, record the movement route, and then drive synchronously according to the recorded route to complete the multi vehicle queue performance.

What can you learn from Transbot?

ROS

ROS robot operating system

RTAB 3D mapping navigation

pointcloudlibrary

PCL 3D point cloud

SLAM mapping navigation

Machine vision applications

Python programming

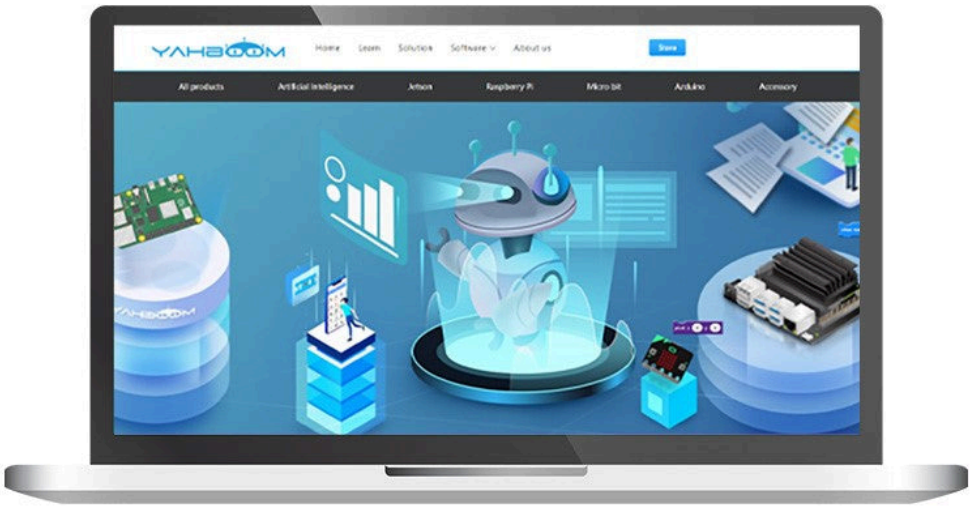
OpenCV

Open Source CV

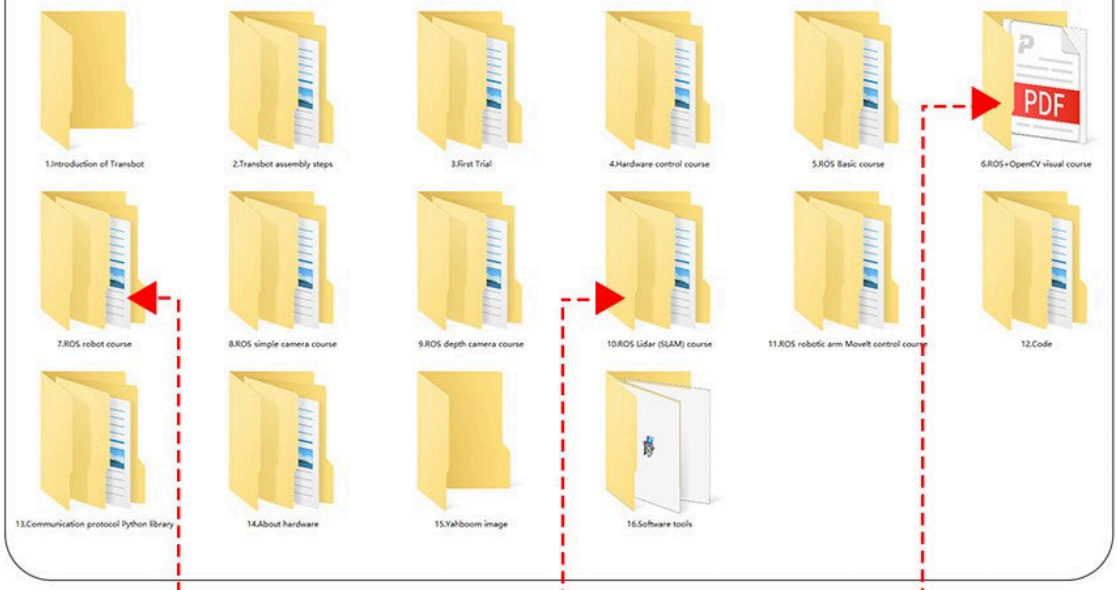
MoveIt

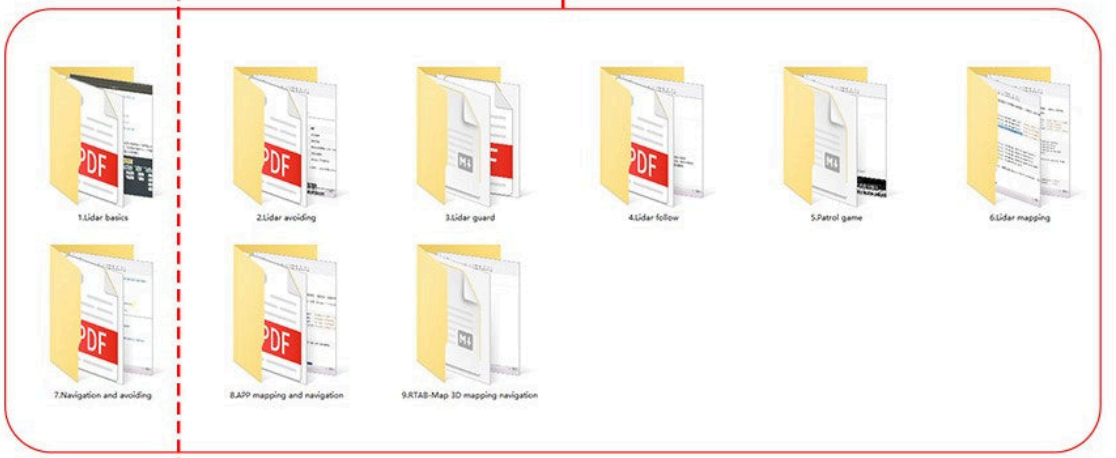
Massive learning materials

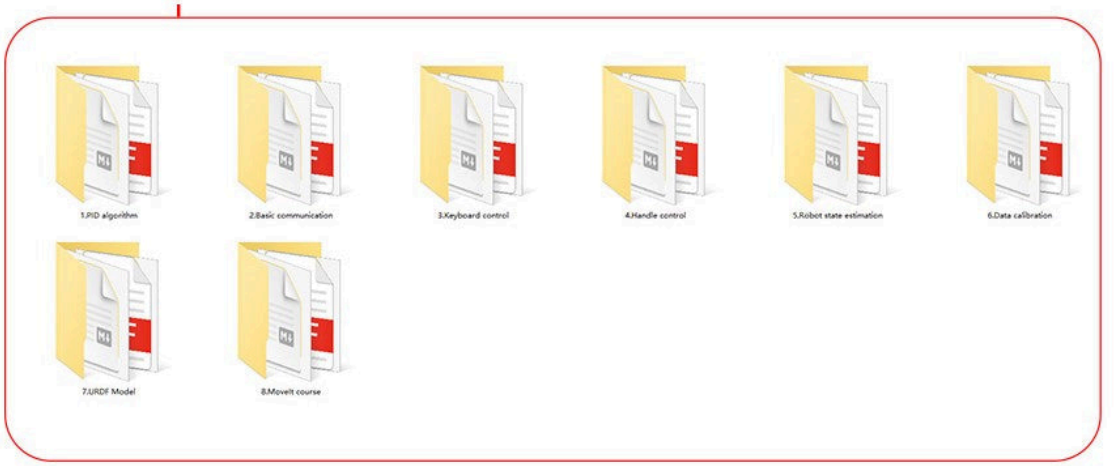
Tutorial link: http://www.yahboom.net/study/Transbot-Pi



Open Course Source Code







Transbot course catalog display

Open source, 64 video tutorials,help users get started easily with ROS learning.

Transbot usage guide	
Introduction of Transbot	1.Transbot version introduction
	2.Transbot manual
Assembly and precautions	1.Precautions for use and battery safety
	2.Assembly precautions
	3.Assembly steps
First Trial	1.Camera WiFi network configuration
	2.APP remote control tutorial
	3.USB wireless handle control
	4.USB handle + APP control

Transbot tutorials	
Hardware control course	1.About expansion board
	2.Close APP control process
	3.Install Transbot driver library
	4.Control buzzer and button
	5.Adjust LED brightness
	6.Control PWM servo
	7.Control bus servo
	8.RGB bar control
	9.Control motor
	10.Control robot movement
ROS Basic course	1.Introduction of ROS
	2.Introduction of project files
	3.Commands and tools
	4.Multi-machine communi-cation
	5.Static IP and WiFi hotspot
ROS+OpenCV visual course	1.Opencv application
	2.Augmented Reality
	3.ARTag
	4.ROS+Opencv basic course
	5.ROS+OpenCV application
	6.Data conversion and point cloud
ROS robot course	1.PID algorithm control
	2.Basic communication
	3.Keyboard control
	4.Handle remote control
	5.State estimation
	6.Data calibration
	7.URDF model
	8.MoveIt tutorial
ROS simple camera course	1.Camera calibration
	2.Color tracking
	3.Object tracking
	4.Autopilot
ROS depth camera course	1.Astra camera calibration
	2.Astra color tracking
	3.Astra object tracking
	4.Astra autopilot
ROS Lidar (SLAM) course	1.Radar basics
	2.Radar avoiding
	3.Radar guard
	4.Radar follow
	5.Patrol game
	6.Radar mapping
	7.Navigation and avoiding
	8.APP mapping and navigation
	9.RTAB-Map 3D mapping navigation
ROS robotic arm MoveIt control course	1.Robotic arm control
	2.Random move
	3.Robotic arm avoiding
NEW Multi ROS robot car controller	1.Multi robot car synchronous control
	2.Multi robot car navigation
	3.Multi robot car queue performance

Transbot annex
1.QR code recognition file
2.Checkerboard calibration file

System image and firmware
1.On board MCU firmware
2.Yahbom image file

Software development tools
1.Writing tutorial
2.Secondary writing tutorial

ROS function package and source code
1.ROS function package and source code

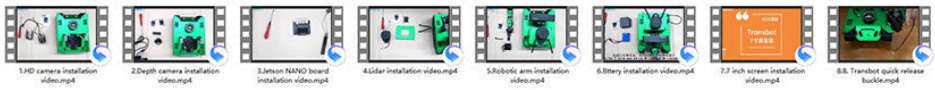
Communication protocol and Python driver library
1.Python driver library
2.Protocol file

Others
1.40Pin cable pin distribution diagram
2.LED module information
3.OLED display information
4.On-board MCU information
5.Motor and motor drive related information
6.Robotic arm bus servo information
7.Lidar information
8.Six-axis attitude sensor information
9.Camera information
10.Hardware interface reference manual

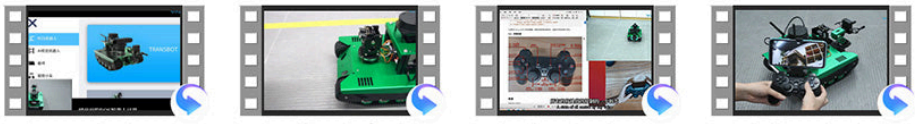
Detailed Chinese and English video tutorials

Yahboom original 64 video tutorial, with Chinese and English subtitles, which is convenient for all users to quickly learn ROS robot.

1.Assembly steps



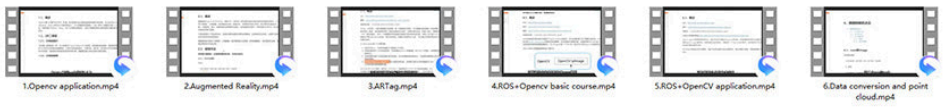
2.First Trial



3.Hardware control course

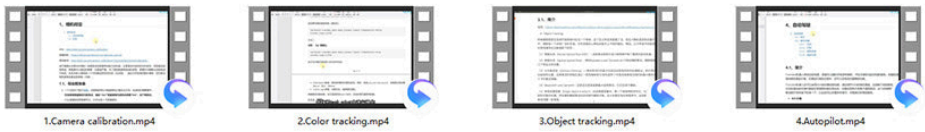
4.ROS Basic course

5.ROS+OpenCV visual course



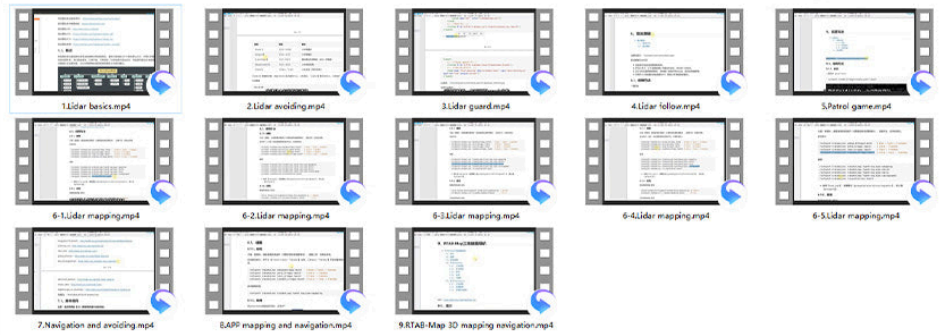
6.ROS robot control course

7.ROS simple camera course



8.ROS depth camera course

9.ROS Lidar (SLAM) course

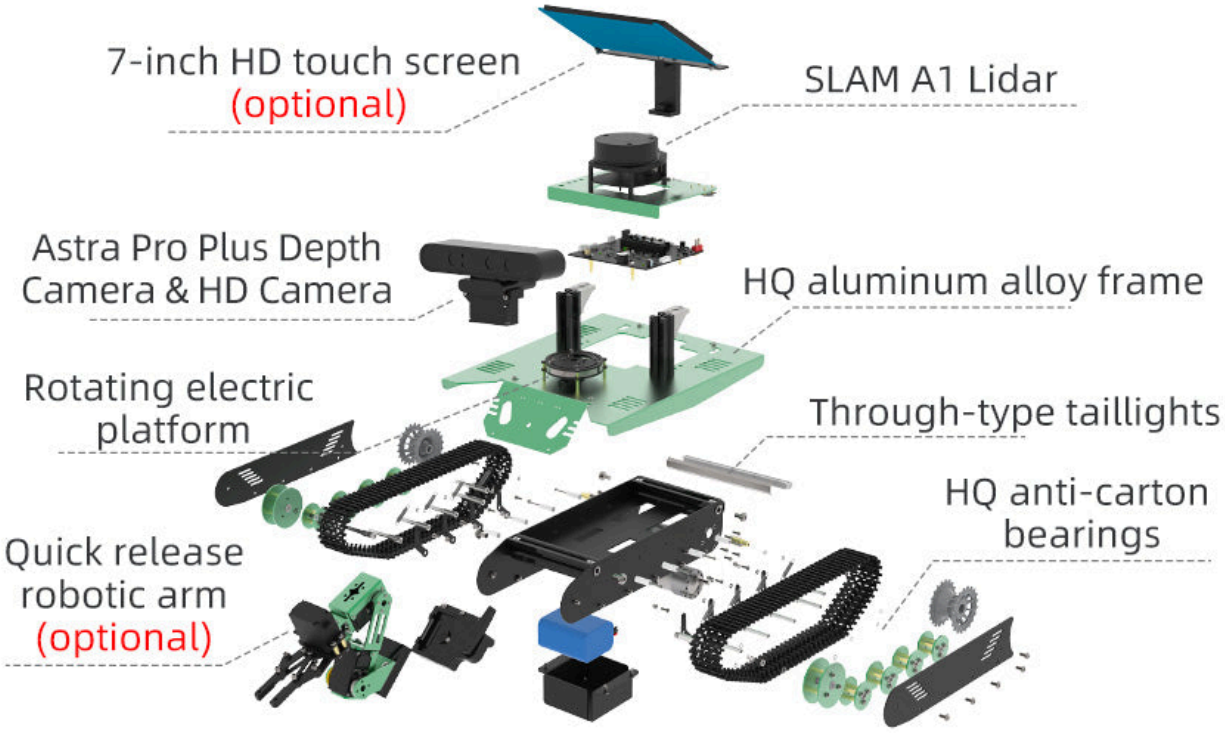


10.ROS robotic arm MoveIt control course

If you want to watch the video tutorial, you can search for "Yahboom" on Youtube.

Unique structure
Easy to assembly

In order to ensure quality and reduce the difficulty of installation, the body of the body has been assembled before shipment. Users only need to install the core accessories.



The overall structure of this product has applied for a utility model patent, patent number: 202122169981.0

3 DOF robotic arm

Bus servo can read the servo angles in real time, and can control the robotic arm through Movelt simulation.

Astra Pro Plus depth camera

Realizes 3D point cloud map, depth map, KCF tracking and other functions, combined with lidar can complete RTAB 3D map navigation.

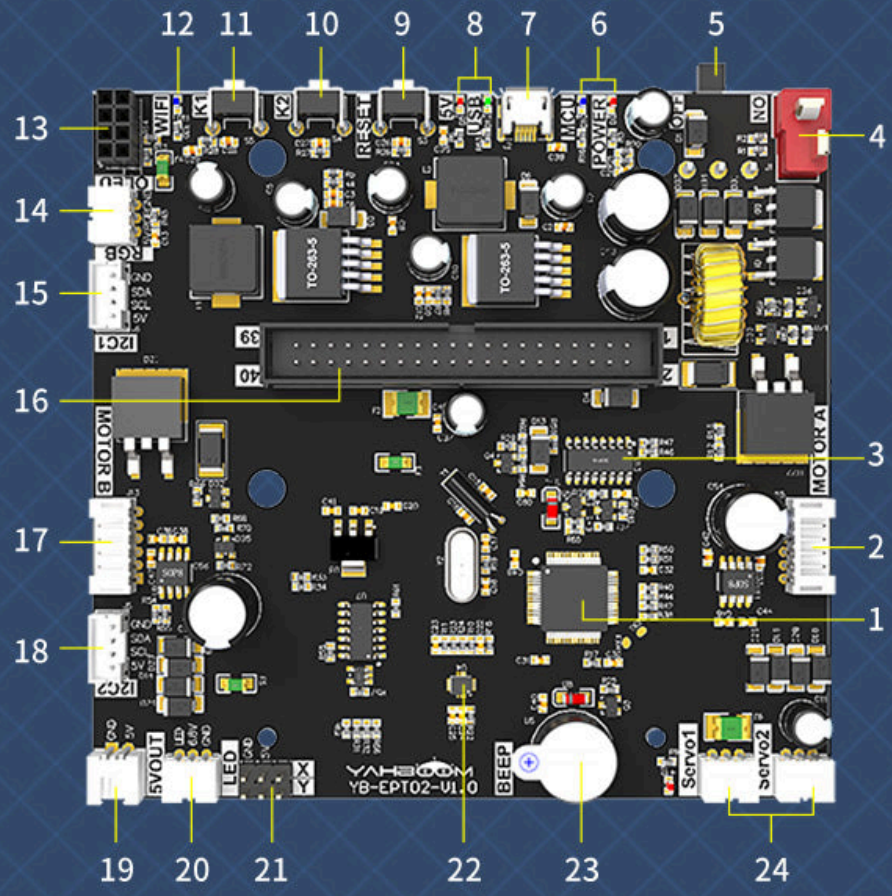
SLAM A1 Lidar

Indoor 2D plane scanning and mapping, single-point and multi-point navigation, avoiding and follow functions.

7-inch HD touch screen

Convenient to debug ROS robot.

Expansion board function distribution



1/On board MCU

2/Motor interface A

3/Serial communication chip

4/DC 12V power supply

5/Power switch

6/MCU indicator

7/Micro USB interface

8/5V indicator

9/RESET button

10/Button K2

11/Button K1

12/WiFi indicator

13/OLED interface

14/Colorful light bar interface

15/I2C interface 1

16/Flat wire female socket

17/Motor interface B

18/I2C interface 2

19/DC 5V power input

20/LED searchlight interface

21/PWM servo interface

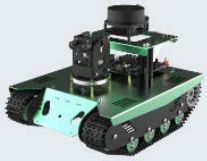
22/Six-axis attitude sensor

23/Active buzzer

24/Robotic arm interface

Recommended configuration 1

Recommended reason: equipped with HD camera searchlight pan tilt, learning lidar mapping navigation.

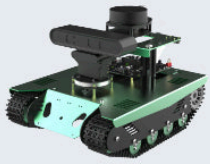


Frame

HD camera

Recommended configuration 2

Recommended reason: joint calibration of depth camera and lidar, 3D visual navigation



Frame

Depth camera

Recommended configuration 3

Recommended reason: Experience the MoveIt simulation control manipulator.

Frame

HD camera

Robotic arm

Recommended configuration 4

Recommended reason: Easy to debug ROS robot.

Frame

Depth camera

Robotic arm

Recommended configuration 5

Recommended reason: Full configuration, users can debug the robot anytime and anywhere.

Frame

Depth camera

Robotic arm

7inch screen

Recommended configuration 6

Recommended reason: Top-level configuration, users can have a high-definition camera and a depth camera, which can be replaced at any time as needed.

Frame

HD camera

Depth camera

Robotic arm

7inch screen

Standard black customized aviation aluminum box

Aluminum box size: 41.5cm*28cm*28cm
Product weight: 6.0kg ~ 7.2kg (the weight will vary according to different configurations)

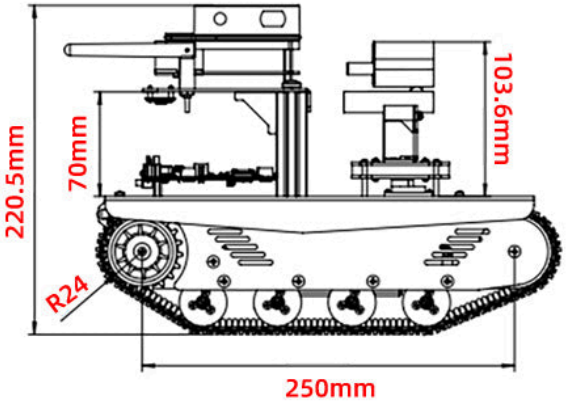
Any version Transbots are shipped in black customized aviation aluminum box.

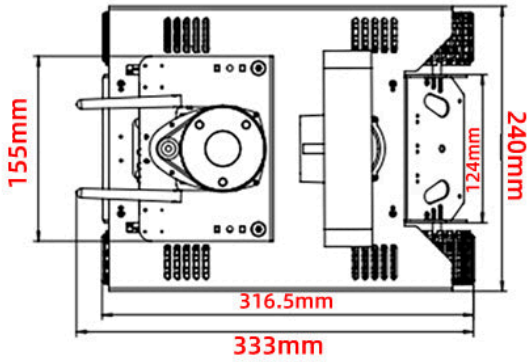
All accessories are brand new and original.

After the vehicle is installed, you can also use this aluminum box for storage, and the aluminum box has enough space for the entire vehicle to be stored.

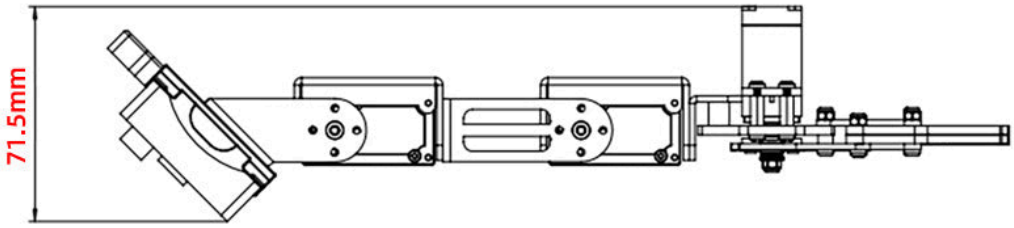
Product specifications

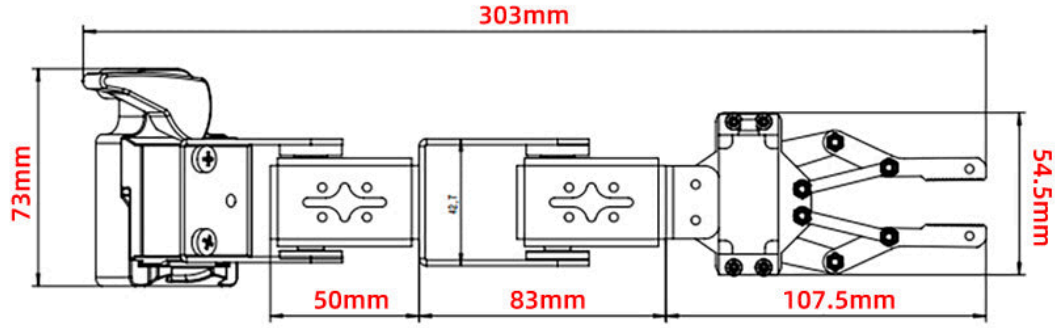
1、Transbot size parameters



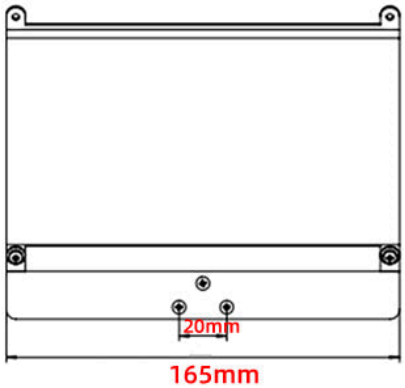


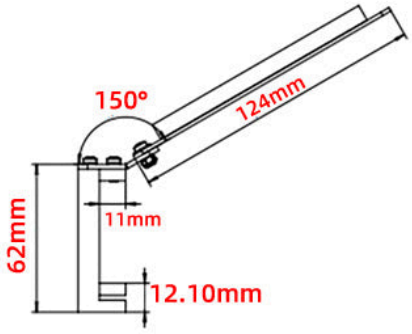
2、Robotic arm size parameters





3、7-inch display screen size parameters





4 .. Product specifications

Transbot ROS robot product parameters			
Microprocessor	Broadcom 8CM2711 64-bit 1.5GHz quad-core +VideoCore VIS00MHz		
AI computing oower	200GFLOPs	Operating system	Ubuntu 18.04 LTS + ROS_Melodic
Programming lanauaae	Python	Motor scheme	520 metal motor with encoder *2
Enter	HD camera (Astra Pro Pius depth camera), SLAM A1 M8 lidar, PS2 wirele.ss handle, six-axis attitude sensor, motor speed measuring codewheel	Output	RGB colorful taillights. buzzer, 520 motor interface*2, bus servo interface, servo pan/tilt, LED searchlight. OLED display
PTZ servo solution	Metal 9G steering gear	Power scheme	12.6V 4400mah 2C lithium battery pack
Battery life	2 hours	power interface	T-shaped power supply interface, DC4.0*1.7 charaina interface
Remote control	Mobile APP, PC computer, PS2 wireless controller	Wayof communication	WiFi network (LAN/AP)
Safety orotection	overcurrent protection	Body material	Anodized aluminum alloy

Astra Pro Pius depth camera product parameters			
3D technology	ORBBECR monocular structured liaht	Range	0.6-8m
Precision	1m: :!:3mm	Field of View <FOV)	H 58A^{O} xV 45.8°
Resolution	640 x480@30fps 320x240@30fps 160x 120@30fps	Frame rate	1920*1080@30fps 1280*720@30fps 640*480@30fps
Advanced Processina Chio	MX6000	Close protection	support
RGB field of view	H66.73° V40.19° @1920*1080 H66.99° V40.37° @1280*720 H60.60° V46.81 $^{\circ}$ @640*480	UVC(RGB)	support
Supported ooeratina svstem	Android / Linux / Windows	Data interface	USB2.0
Size	164.85* 48.25* 40	Microphone	nvo-channel stereo
Power consumotion	<2.SW	Safety	Class 1 laser
Operating temoerature	10°(-40°(		

HD camera product parameters			
Image format	YUV/MJPG	Image pixel	2MP（1080）
Data Format	320*240/640*480/ 1280*720/1920*1080	Lens	F2.8mm
Field of view	80°~120°（Depends on video resolution）	Frame rate	30fps~120fps（Depends on video resolution）
Sleep current	< 10 mA	Working current	< 200 mA
Interface method	USB 2.0	Operating Voltage	DC 5V
Storage temperature	-20℃ to +60℃	Operating temperature	0℃ to +65 ℃ ((The working temperature increases with the increase of the frame rate. The high temperature of the camera chip is normal when the frame rate is used))

YB-P09M metal servo (electric rotating platform)			
Servo	YB-P09M	Maximum angle	180°
Voltage	4.8-6V	Torque	1.5kgf.cm 4.8V/1.8kgf.cm 6V
Reaction speed	0.12sec/60°4.8V/0.10sec/60° 6V	Servo type	Digital servo
Gear	Metal gear	Weight	14g

Serial bus servo parameters (Robotic arm)			
Servo YB-S06 (mechanical claw 6KG)		Servo YB-SD15M (robotic arm 15kg)	
Maximum angle	90°	Maximum angle	300°±15°
Voltage	4.8V-6V	Voltage	6.0-7.4V
Torque	8kgf.cm 6V	Torque	15kgf.cm 7.4V
Reaction speed	0.20sec/60° 6V	Reaction speed	0.30sec/60° 7.4V
Servo type	Serial bus servo	Servo type	Serial bus servo
Gear	Plastic gear	Gear	Metal gear
Weight	52±1g	Weight	50±1g
Working dead zone	5μs	Working dead zone	5μs
Characteristic	Locked rotor 5s power-off protection, lifting weight 5kgf.cm clutch protection	Characteristic	Locked for 3 seconds to enter the protection, and receive a new signal to release

520 encoder motor parameters (robot power motor)			
Rated voltage	12V	Rated power	≤4W
Motor type	Permanent magnet with brush	Locked-rotor current	4A
Locked-rotor torque	8.3kgf,cm	Rated current	0.3A
Rated torque	6.5kgf.cm	Reduction ratio	1:56
Speed before deceleration	12000	Speed after deceleration	205±10rpm
Output shaft	6mm diameter D-type eccentric shaft	Encoder type	Hall encoder
Number of lines	11	Supply voltage	3.3-5V
Interface Type	PH2.0		

Power battery pack parameters			
Capacity	4400mAh	Rated discharge current	8.8A（2C）
Size	68*55*37mm	Maximum discharge current	10A
Weight	300g	Plug	T-plug discharge+4017 female
Charger	12.6V 800mA	Protect	Over current, over charge, over discharge, short circuit protection

Shipping List

Packing list (basic configuration)

 Frame	 Lidar fixed plate	 Optional Raspberry Pi 4B	 Raspberry Pi accessory kit	 Expansion board
 USB wireless handle	 Handle mobile phone holder	 Charger	 Several cables	 micro USB data cable
 Cable tie	 Screwdriver	 Mechanical code & checkerboard paper	 Card reader + TF card	 transbot manual
 Parts package	 OLED screen	 Battery pack	 Battery case	 Packing box + anti-collision sponge
SLAM A1 Lidar pack	 SLAM A1 Lidar	 micro USB data cable	 No.6 package	

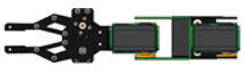
HD camera pack

 HD camera + searchlight	 HD camera bracket (assembly)	 Several cables	 No.5 package

Astra Pro Plus depth camera pack

 Astra Pro Plus depth camera	 Depth camera support (assembly)	 Depth camera fixed bracket	 No.4 package

3DOF robotic arm accessory kit

 3DOF robotic arm	 Quick release buckle	 Quick release buckle fixing plate	 No.7 package

Tutorial link

[Yahboom Raspberry Pi Transbot Robot]

Questions & Answers

Have a Question?

Ask a Question

Q Hello, I am interested in this product. Is it possible to control the robot from a PC via an existing WLAN? In other words, to see the camera and drive it?

A Hello friend,

Thanks for your message.

It does not support real-time control and viewing of the images captured by the camera on the PC, but it supports real-time control and viewing of the images captured by the camera through a mobile APP.

Q I bought the Yahboom ROS Transbot Robot with Lidar Depth camera support Python programming MoveIt 3D mapping for Raspberry Pi, if in the future I want to switch to Jetson NANO 4GB(B01/SUB) version, can I do it? if so what do i need to buy, and do? Regards and thanks

A Hello friend,
If you want to use Jetson NANO version. You just need purchase, Jetson NANO board, U disk(With Transbot system file), Jetson nano installstion package.
If you need, contact me by E-mail: market@yahboom.com
I will I will draft an order and send it to you.

Q I bought it, but I have an error with the astra camera launching , also the frame rate is very low (1 fps), is there a method to modify this?

A Hello friend,
Sorry for lata reply. Could you send your question to this E-mail:support@yahboom.com
Our Technical Support will reply you ASAP.

Q Can this recognize other things (not faces). For example, a date bunch?

A Hello friend,
Thanks for your message.
This is a programmable product, and we currently only provide routines to recognize a person's face.
If you need to identify a group of people, you can do that by modifying the code.

Q If I formatted the memory by wrong, how could I restore the files again? Can I get another memory card?

A Hi friend,
Could you contact our technical support is via email or WhatsAPP. He will provide professional services to help you solve the problem ASAP.
E-mail: support@yahboom.com WhatsAPP: +86 18682378128