Lesson 1 Introduction to TurboPi
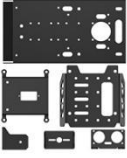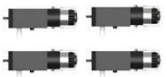
1. Product Description

TurboPi is an open source AI vision robot car designed for beginners. It is built on Mecanum wheel chassis, powered by Raspberry Pi 4B, loaded with 120-degree wide angle camera and uses OpenCV to process images. Color recognition, target tracking, autonomous driving, face recognition, gesture recognition, etc., can be realized!

Equipped with RGB glowy ultrasonic sensor whose light can be adjusted, TurboPi is able to avoid obstacle smartly. In addition, it also supports variety of sensors to turn your creative AI ideas into reality!

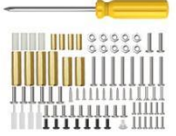Abundant tutorials and Python source codes are provided to help you advance quickly in to robot technology, machine vision and artificial intelligence!

2. Package List

Bracket set	Raspberry Pi 4B board	Raspberry Pi expansion board	HD 120° wide angle camera	Anti-blocking servos	4-channel line follower
TT motors	Glowy ultrasonic sensor	18650 Lipo batteries(1800mAh)	Battery holder box	Battery charger + USB cable	USB cable
Mecanum wheels	Heat sinks	Balls	4PIN wires(20cm)	Card reader 16G SD card	Screwdriver and screws