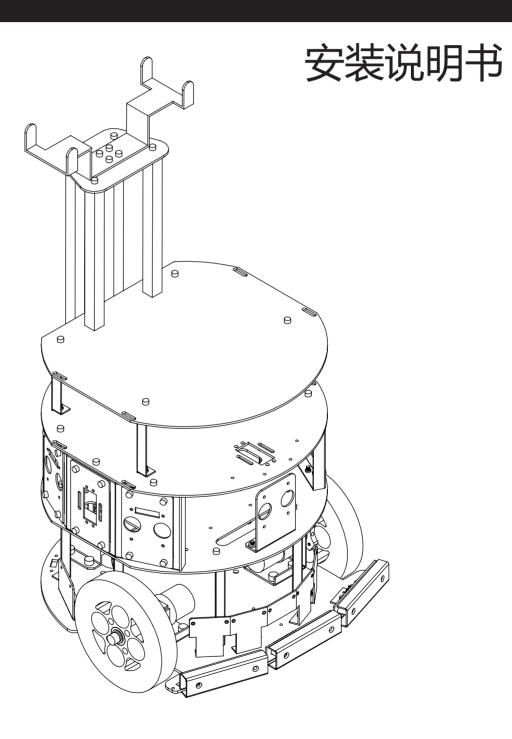
#### **Instruction Manual**

# **HCR - Home Care Robot**



在使用HCR - Home Care Robot之前,请仔细阅读此说明书。 Read the manual carefully before using HCR - Home Care Robot.

电话 (Tel): 86-021-61620183 网站: www.DFRobot.com.cn

服务支持 (Service): Techsupport@dfrobot.com Website: www.DFRobot.com

本说明书最终解释权归DFRobot所有DFRobot has the final authority of interpretation on this manual.

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整机组装12 Final Platform Assembly
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#### 电机装配 (a) Motor Assembly (a)



M4x15mm 内六角螺丝 M4x15mm Hex Sockets Screw



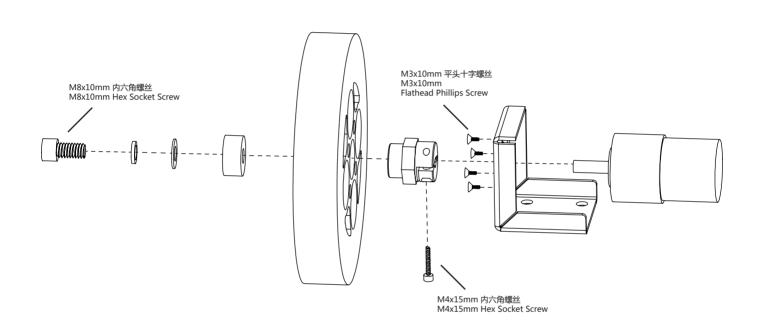
M8x10mm 内六角螺丝 M8x10mm Hex Sockets Screw

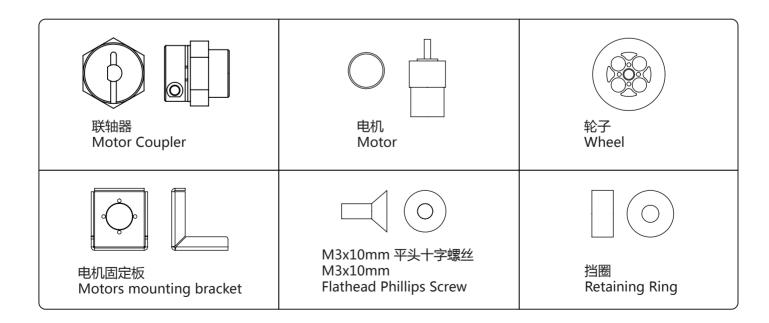


M8 弹片 M8 Stainless Steel Spring Washer



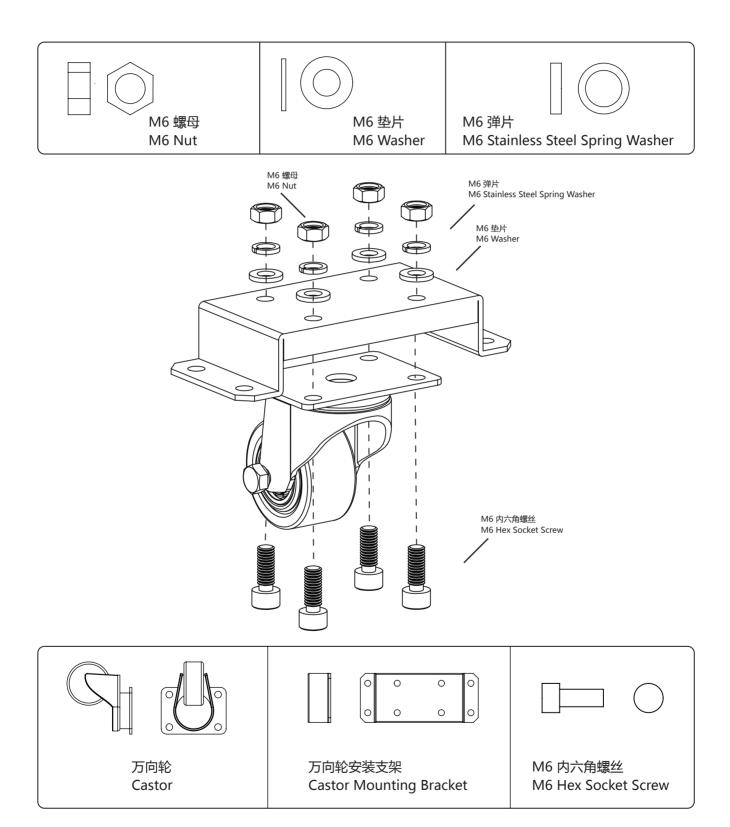
M8 垫片 M8 Washer





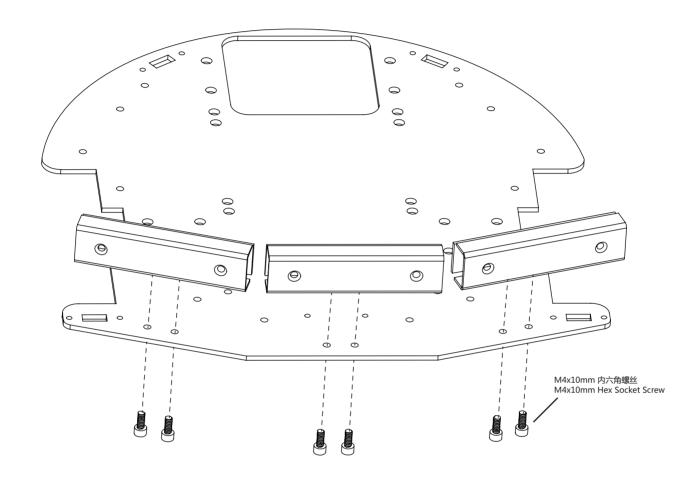


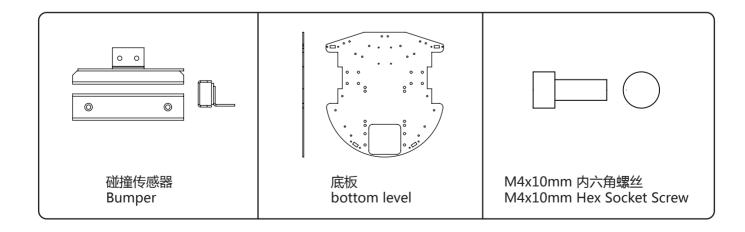
#### 万向轮装配 Caster Assembly





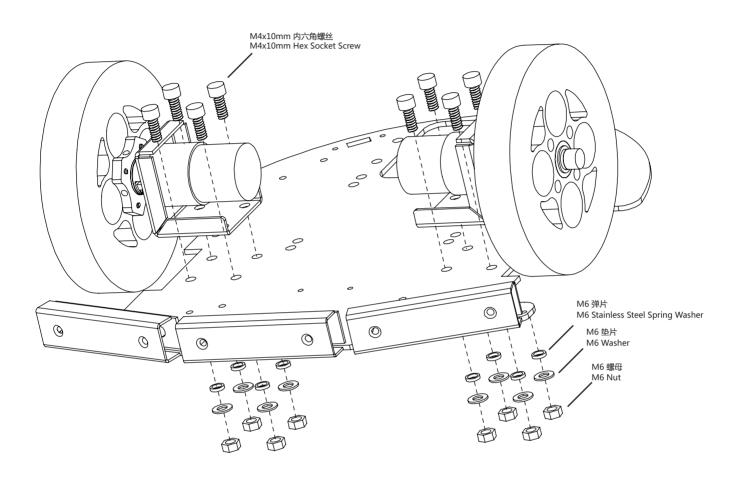
## 底层装配 (a) Bottom Assembly (a)

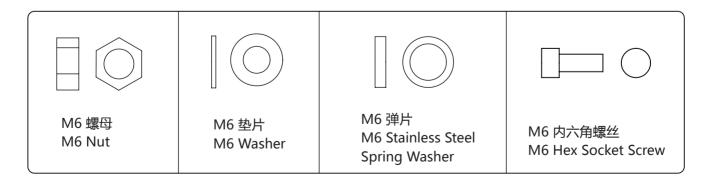






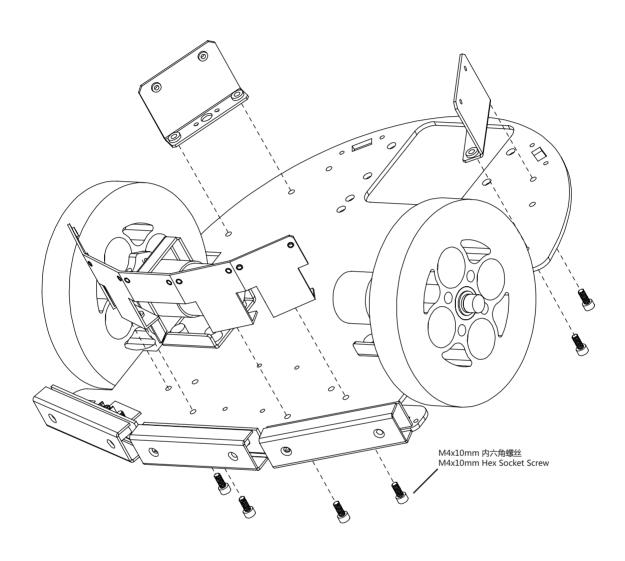
### 底层装配 (b) Bottom Assembly (b)

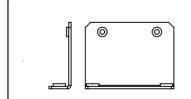




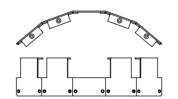


### 底层装配 (c) Bottom Assembly (c)





后红外安装支架 near IR mounting bracket



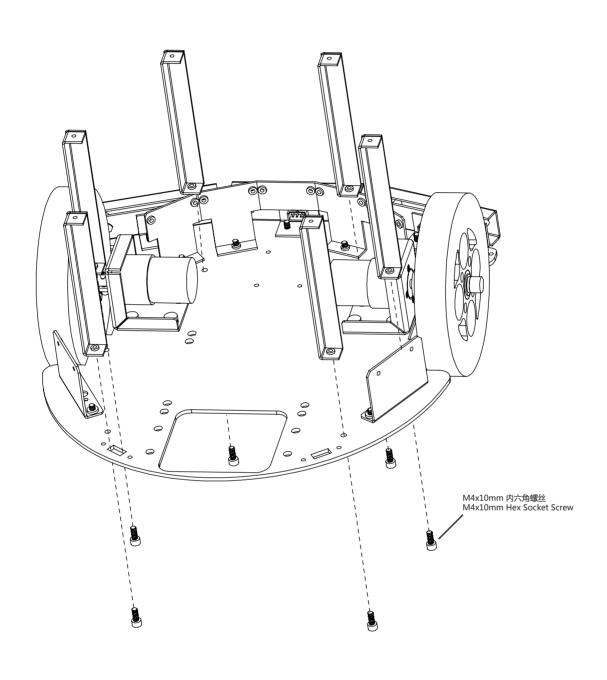
前红外安装支架 front IR mounting bracket

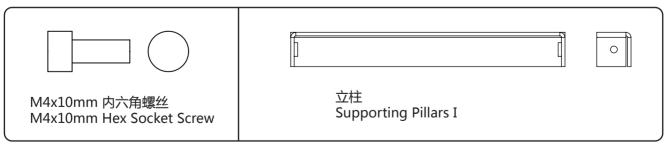


M4x10mm 内六角螺丝 M4x10mm Hex Socket Screw



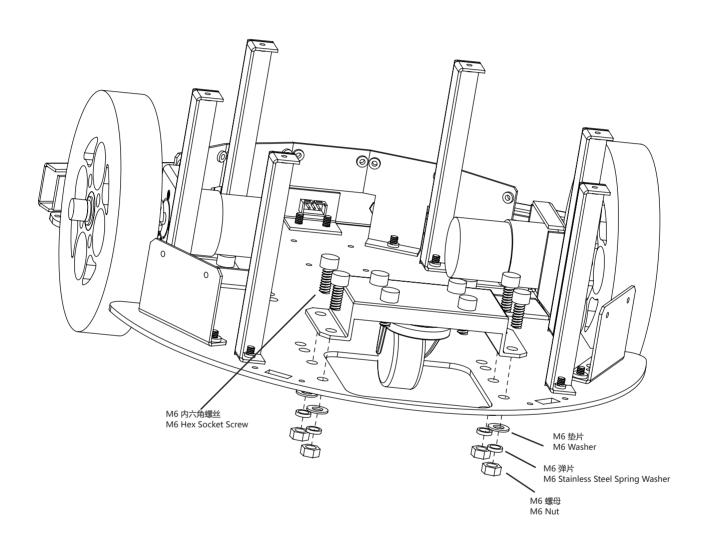
## 底层装配 (d) Bottom Assembly (d)

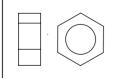






### 底层装配 (e) Bottom Assembly (e)





M6 螺母 M6 Nut



M6 垫片 M6 Washer



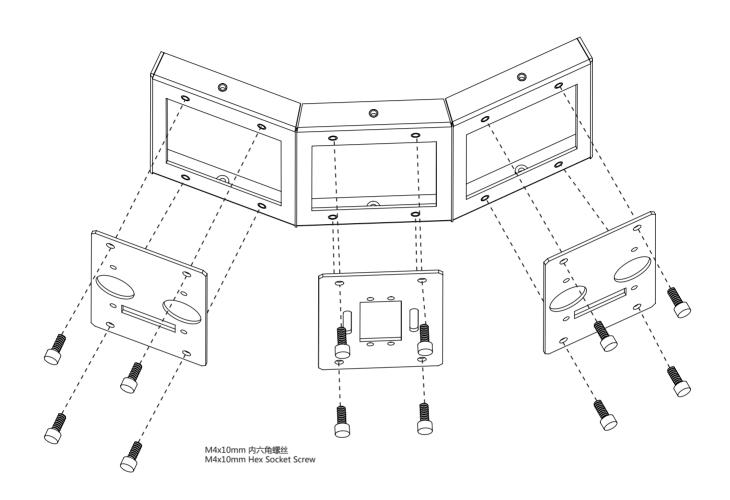
M6 弹片 M6 Stainless Steel Spring Washer

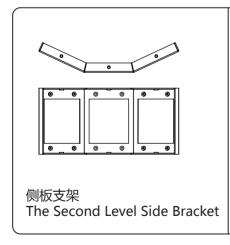


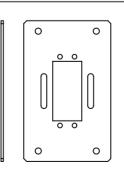
M6 内六角螺丝 M6 Hex Socket Screw



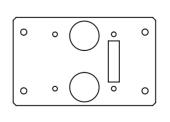
#### 中层侧板装配 The Second Level Side Assembly



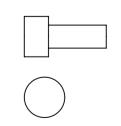




舵机扩展板 Servo Pan/Tilt Bracket



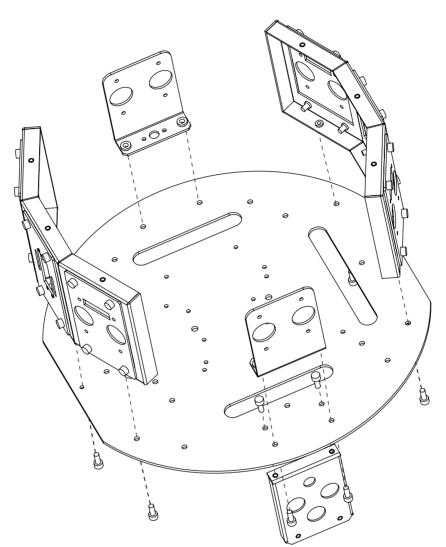
超声波安装板 URM04 Ultrasonic Mounting Bracket I



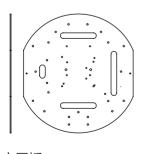
M4x10mm 内六角螺丝 M4x10mm Hex Socket Screw



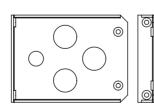
### 中层装配 The Second Level Assembly



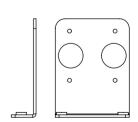
M4x10mm 内六角螺丝 M4x10mm Hex Socket Screw



中层板 The Second Level



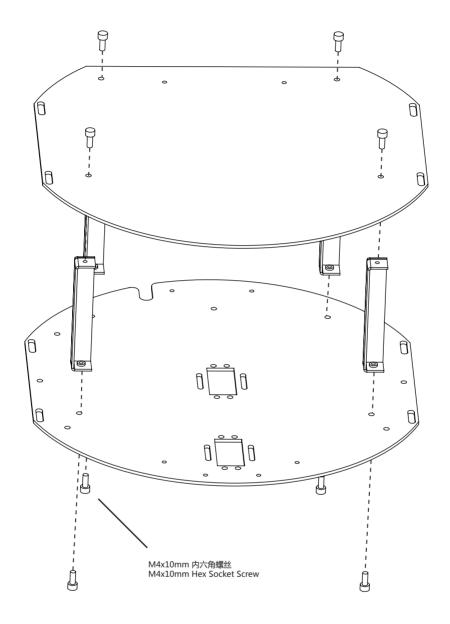
开关安装板 Switch mouting bracket

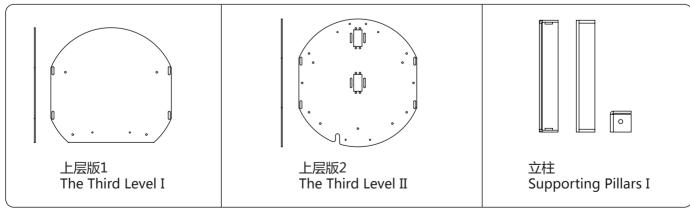


超声波安装板 URM04 Ultrasonic mounting bracket I



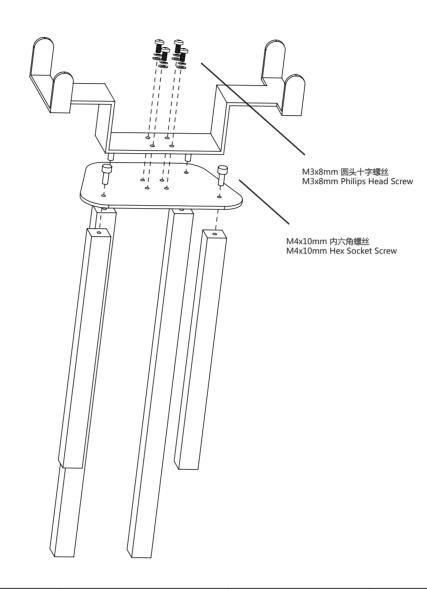
## kinect支架装配 Kinect Level Assembly

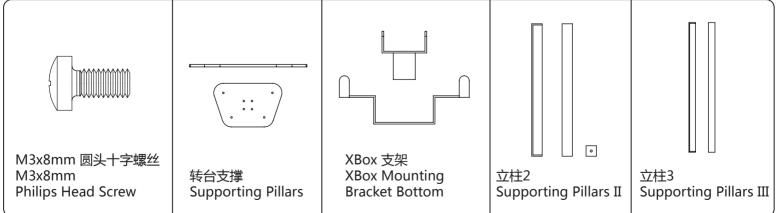






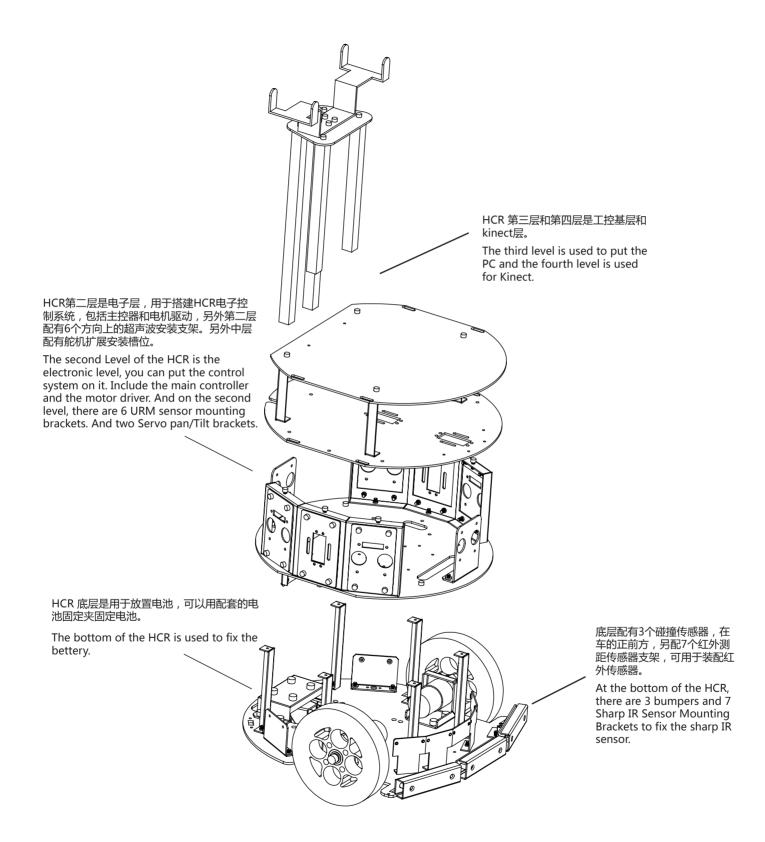
### Kinect支架装配 Kinect Level Assembly







#### 整机组装 Final Platform Assembly





### 零部件清单 Parts List

零件名称	Parts	数量
底板	Bottom	1
中层板	The Second Chassis	1
第三层板	The IPC Level Up Chassis	1
工控机上层板	The IPC Bottom Chassis	1
前红外安装支架	Front IR Mounting Bracket	1
后红外安装支架	Rear IR Mounting Bracket	2
开关安装支架	Power Switch Mounting Bracket	1
超声波支架	URM04 Ultrasonic Mounting Bracket I	2
舵机扩展安装板	Servo Pan/Tilt Bracket	2
中层侧板	The Second Level Side Bracket	2
URM4超声波扩展支架	URM4 Ultrasonic Mounting Bracket II	4
底板立柱I 12CM	Supporting Pillars I	6
立柱II 10.1CM	Supporting Pillars	1
工控机层立柱III 9CM	Supporting Pillars II	4
XBOX立柱IIIs 3cm	Supporting Pillars	4
XBOX立柱IV 19CM	Supporting Pillars III and IV	2
XBOX立柱IVs 25cm	Supporting Pillars	2
XBOX立柱V 28.25cm	Supporting Pillars	2
转台支撑	XBOX Mounting Bracket Bottom	1
Xbox 支架	XBOX Mounting Bracket	1
轮子	Wheels	2
电机联轴器	Motor Coupler	2
万向轮	Castor Wheel	1
万向轮安装架	Castor Mounting Bracket	1
直流电机	DC Motors with Encoders and Cables	2
马达安装支架	Motors Mounting Bracket	2
碰撞传感器	Bumper Sensor	3
电池固定片	Battery Mounting Plate	2
M4*10内六角不锈钢安装螺丝	M4*10 Screw	80
M6*15内六角不锈钢安装螺丝	M6*15 Screw	18
铜柱螺丝包	Coin Screws	1
内6角扳手	Inner Hex Wrench	1
两头开口扳手	Two Open-end Wrench	1



#### 家庭监护机器人基础电子配件 Home Care Robot Base electronic Parts list

• 主控器: Arduino Mega / Main control: Arduino Mega

• 电机控制: Arduino Nano / Motor control: Arduino Nano

• 电机驱动: DC Motor Driver 2×15A / Motor Driver: DC Motor Driver 2×15A

#### 家庭监护机器人进阶电子配件 Home Care Robot Advance electronic Parts list

• 主控器: Arduino Mega / Main control: Arduino Mega

• 电机控制: Arduino Nano / Motor control: Arduino Nano

• 电机驱动: DC Motor Driver 2×15A / Motor Driver: DC Motor Driver 2×15A

● 红外测距传感器 / IR Sensor

● 超声波传感器 / URM Sensor

#### 家庭监护机器人高级电子配件 Home Care Robot Senior electronic Part list

• 主控器: Arduino Mega / Main control: Arduino Mega

• 电机控制: Arduino Nano / Motor control: Arduino Nano

• 电机驱动: DC Motor Driver 2×15A / Motor Driver: DC Motor Driver 2×15A

- 红外测距传感器 / IR Sensor
- 超声波传感器 / URM Sensor
- Xbee通讯模块 / XBee 1mW Wire Antenna
- GamePad V2.0 / GamePad V2.0
- DF-BluetoothV3蓝牙串口模块 / DFRobot Bluetooth V3

