

The following is a GENERAL parts list for ARLO

Some parts are NOT included (The Windows 8 Tablet, Form-board and PVC body parts, some cables, a webcam, and various small miscellaneous parts)

Prices are approximate – check with each vendor for current pricing.

If there is enough demand, RobotBASIC might offer a kit of the basic parts needed for Arlo.

Of course, parts from other vendors can often be substituted – just modify the software as needed.

Parts available from Parallax.com

Arlo Robot Base Kit (#28960), \$39

Arlo Top Deck (#28965), \$49

Arlo Power Distribution Center, includes battery charger (#28996), \$100

Wheel Casters, 2 required (#28961), \$49 each

Motor Mount Wheel Kit, includes encoders (#28963), \$199

H-25 motor controller, 2 required (#29144), \$49 each

Ping ultrasonic sensor with stand, 6 required (#910-28015B), \$40 each

Optional SF02 Laser rangefinder (#28043), \$350

Parts available from EZ-Robot.com

3 servo Arm with gripper (2 required), \$69 each

4 additional lever servos to complete arms , \$17 each

I used a general purpose turret found on Ebay.com but you could consider

these items for building your turret

1 lever servo for turret, \$17

1 rotational servo for turret, \$17

Clip n play adapter plate for mounting servos

(2 req for arms, possible 2 for turret), \$3 each

Extension blocks and cubes used to extend arm joints

(I used 1 extension cube on each shoulder rotation joint), \$5 each

Parts available from Pololu.com

24 Channel Servo Controller (#1356), \$50

Sharpe analog IR ranger for turret ,instead of Laser, (either #1137 or #2474), \$14

Sharpe digital IR sensors for grippers , 6 required, (#1132), \$6 each

3 QTR analog reflective sensor for Line Sensing (#2458, 2 pack), about \$2 per sensor

Maxbotics analog compatible ultrasonic ranger for turret (#726), \$25

Parts available from RobotBASIC.org

RROS Chip, \$60

RB-PCB, \$16

Parts kit for PCB (includes beacon detector), \$25

Beacon Chip, \$12

Bluetooth transceiver, \$35

Low Cost ultrasonic rangers (instead of Pings – no mounting brackets) , 5 for \$35

HMC5883 compass and cable to connect to PCB, \$30