



# PTW-42-L 4WD Inspection and Surveillance Robot with Scissor Lift and PTZ Camera

## Overview

This is our enclosed wheeled All Terrain Robot with scissor lift PTZ camera. This robot is a great surveillance/inspection robot that allows you to see over counter tops, through windows, etc. that most low profile robots cannot achieve.

The mobile All Terrain Enclosed Robot with scissor lift is programmed and fully assembled complete with a tablet or tactical remote.

No additional equipment is needed to get started!



## Standard Configuration

**Platform:** Enclosed, wheeled, All Terrain Robot modified to accept the scissor lift. This includes the chassis, 4 heavy-duty gear motors for the drive, the wheels, motor controller, (2) batteries, wiring, assembly, testing, etc

**Scissor Lift Assembly:** The lift raises the camera to a height over 4ft and collapses to a height of 1.5ft

**Camera System:** 360° pan-and-tilt with a 30X optical zoom camera mounted inside a custom camera housing. LED flood lights and audio are optional

**Control Package:** Wi-Fi Tactical Robot Controller with Video Server

**Battery Charging:** The chargers are fully automatic and will charge all the batteries simultaneously

**Robot Run Time:** Up to 4 hours

**Speed:** Up to 5 feet per second. Infinitely adjustable and controllable.

**Weight:** Approximately 54 lbs

**Dimensions:** 21.5" wide, 24" long, 21" tall collapsed, 54.5" tall extended

**Assembly:** The entire robot is assembled, configured, tested, and supported by our professionally trained staff here in NC

## Applications

**Multiple Height Surveillance:** This robot's functionality allows for surveying bed tops, countertops, windows, and other areas where surveillance height is required

**Remote Inspection:** This robot can be operated anywhere in the world remotely via the internet using the Wi-Fi package and setting up your port-forwarded router

**Hostage and Hazardous Surveillance:** Survey hostile/hazardous situations staying out of harm's way

**Remote Clearance:** Clear rooms and buildings remotely with audio and video surveillance

**Remote Surveillance:** The 360° pan-and-tilt, 30X optical zoom camera with low light vision and high intensity LED lights allow the robot to see everything

**Entry into difficult areas:** This 4WD robot is quick and has the ability to traverse many obstacles that often stop other robots





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## Control Options

**Wi-Fi Control System:** For use in open areas and short distances into unobstructed spaces. Wi-Fi will not typically work well underground, in pipes, etc. where the wireless signal is degraded or blocked

**Wi-Fi and Tethered System with 250ft Ethernet Cable:** When the signal is too weak for wireless, plug in the supplied 250ft Ethernet cable to switch to tethered mode. We use high quality outdoor rated cable with waterproof connectors. With this option, the cable is not on a spool. Shorter lengths of the cable can be made. Contact us if you need a custom cable length

**Wi-Fi and Tethered System with 250ft Ethernet Spool:** This is the same as the previous option except the cable comes on a spool. The spool allows easy deployment and retraction of the Ethernet cable

**Tethered System with 500ft Cable Spool:** For those that know wireless will not work for your application and need to go up to 500ft, this is the best option. The robot will only operate when the tether is connected between the tablet and the robot

**Enclosed Case 2.4Ghz Digital Tactical Robot Controller:** If you want a wireless system that is far beyond standard Wi-Fi, then this is a good choice



## Other Options

**Encoder Option:** This option allows you to keep track of the distance the robot has travelled and displays the information on the tablet controller. This is great for keeping track of where you are when you see something of note with the inspection camera. The distance is measured by keeping track of the pulses from each motor rotation

**Custom Paint Option:** The robot comes standard in SuperDroid Blue. If you would like a different color select the custom color and we will contact you for the paint color code

**Lights:** This add-on provides the user with an option to add remotely operated high intensity LED lights to illuminate the darkness

**PA System (for Audio from Remote to the Robot):** This add-on allows the user to use a hand held radio to broadcast to the robot through a loud speaker PA system. Using this option along with the above microphone allows 2 way communication between the remote users and the robot

**Robot Microphone (for Audio from Robot to Remote):** This add-on installs a microphone on the robot. The microphone is a high quality microphone that is meant for listening to large areas

