Detect-O-Bot 1000 Command Syntax

Serial commands sent to embedded platform

All commands are eight characters in length, with a three character command prefix followed by a coded value.

All commands will echo back the same three character prefix with an incrementing command counter appended in the last five characters.

**Legend:** X = don’t care

Uppercase letter = parameter value

**System Command prefix Usage**

**General**

Ping png pngXXXXX

Abort abt abtXXXXX

Resume (buggy) res resXXXXX

**Drive Motors**

Speed percent mov {motorNum} {speed} movNSSSS

N = motor number 0 or 1, value of 2 means both motors

SSSS = speed in percentage from 0 - 100

Speed/Distance dst {motorNum} {distance} dstNTDDD

N = motor number 0 or 1, value of 2 means both motors

T = 0 to set a speed, 1 to set a distance

DDD = speed in mm/s or distance to travel in cm

Spin in place spn {distance} spnDDDDD

Motor 1 goes in reverse at 50%, motor 2 goes forward at 50%

DDDDD = distance for motors to travel in cm

Force Stop stp stpXXXXX

Forcefully set both motor PWM values to zero (to stop high frequency whine)

**Lights**

Toggle laser aim aimXXXXX