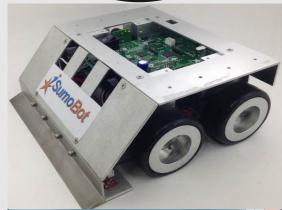
## iSumoBot<sup>®</sup> 4W Drive Combat Mobile Robot

MICROSYSTEMS www.inovamicro.com



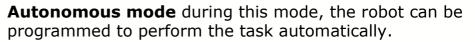
🚽 iNOVA GUI - [iS	umoBotForm]						المراجع المراجع
Monitor Motor Tun	ing						
Left Motor Parameters				Right Motor Parameters			
KP	Gear Ratio	Acceleration		KP	Gear Ratio		Acceleration
К	Wheel CIR	Set Whe	el Info	КІ	Wheel Dia.		Set Wheel Info
KD	CPR	Read Wr	eel Info	KD	CPR		Read Wheel Info
Sensers reading				Motors Control			
Front Line Sens	er 1 🔘	Front Line Senser 2	$\bigcirc$	Current Position	L: 0	R: 0	Supply Voltage
Back Line Sens	ar 1 🔘	Back Line Senser 2	$\bigcirc$	Current Velocity	L: 0	R: 0	0 mV
Front Left Rada	r 0 mV	Trigger Level H	L	Target Position	Ŀ	R:	Set Position
Front Right Rac	dar 0 mV	Trigger Level H	L	Target Velocity	L:	R:	Set Velocity
Left Radar	0 mV	Trigger Level		Remote control			
Right Radar	0 mV	Trigger Level		Channel 1		nnel 2	Channel 3
Back Radar	0 mV	Trigger Level		0	0		0
		Read Set		0	S	ave all	Emergency stop



## Description

iSumoBot<sup>®</sup> Soccer Robot System is a high-quality compact 2-axis robot designed for both autonomous and RC remote control capabilities.

- Full metal chassis
- **Twin** high power servo motor encoder
- 4 wheel drive
- **PID closed loop control** for speed and position
- **4 IR sensor** as floor boundary sensor
- 5 Ultrasonic sensor to sense surrounding objects
- One RS-232 port
- Bluetooth communication
- Arduino compatible
- iQu<sup>®</sup> enabled with PC software
- **Competition** event in Singapore and Japan



**RC mode** during this mode, user become the controller of the robot by using the standard RC remote controller.

iQu<sup>®</sup> is a robot control platform that allows

- Diagnose and control via PC software
- Access of I/O, sensors and motors
- Built-in robotic actions to perform tasks.

With **iQu**<sup>®</sup>, it can used as a general mobile robotic development platform.

## Training

Training is conducted upon request. The topics including

- System operation and maintenance
- Introduction to **iQu**<sup>®</sup> platform
- Introduction to C programming for Microchip MCU
- Action programming for sumo robot







