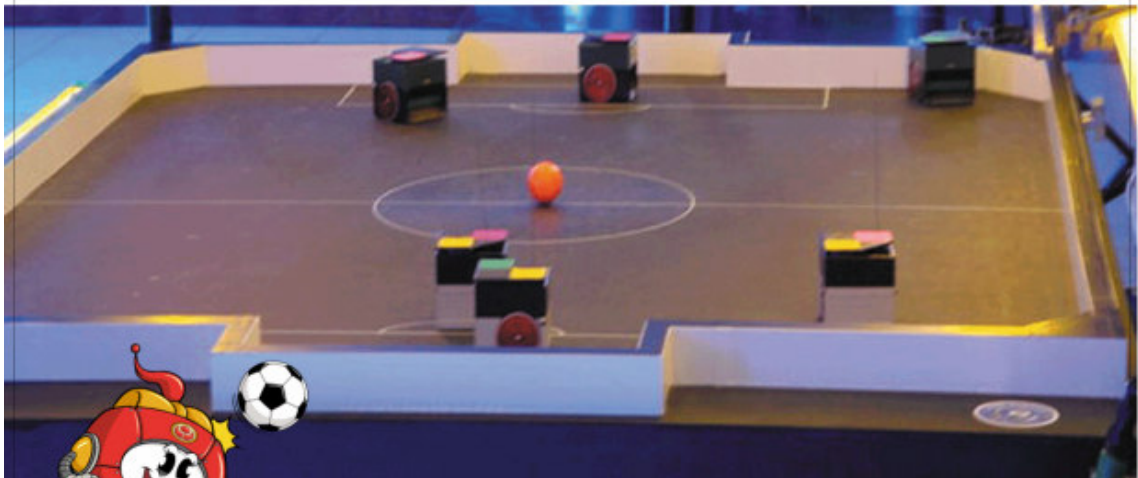




YUJIN SOCCER ROBOT

New Soccer Robot System (Victo)

Yujin Robotics Co. has supplied high-performance soccer robots and now introduces its new model Victo, which presents high performance of the existing model at reasonable low price. Since Victo provides a simple GUI(Graphic User Interface) environment with programmable icons which link to various robot actions, even novices in programming as well as elementary students can make their own strategies for robot soccer teams.



Features of Victo

Hardware

- Precise control using wheel encoders
- Simultaneous games up to 5 using multi-channel communication modules(10 Channel)
- Improved acceleration due to light body
- Improved linearity and stability due to thick wheels

Software

- Easy programming using simple GUI environment
- Supporting various strategies and tactics using GUI visual tool
- Easy strategy debugging using built-in simulator
- Supporting different strategies for individual robots even in a team
- Easy setup program using Auto-Setting and Auto-Tuning functions

SIZE	7.5 × 7.5 × 7.5(cm)
WEIGHT	450(g)
CPU	ATMEL ATMEGA163
ENCODER	144PPR
CONTROL	POSITION CONTROL (PID, PWV)
MOTOR	6V DC, 7400RPM
BODY	Entirely made of an Aluminum body



Victo(competition)



YUJIN SOCCER ROBOT



ACCESSORIES



VISION & CONTROL PROGRAM (Software)

- Skill : Variety of control algorithm / Motion Test / Game strategy installed program / Easy & Fast vision setting / User focused GUI interface / Executing user's strategy
- Algorithm : Ball tracking, Angle identification Position identification
- Control algorithm environment : Windows 98, 2000 / GUI

CPU	Pentium III 900 Mhz
RAM	128MB
VGA	AGP (RAM 32MB)
OS	Win98 / Win 2K
PROGRAM	Color Tuning / Strategy Edit / Simulation / Serial Test

FRAME GRABBER

- Skill : Converting image signal from camera to the form that computer can manage

RESOLUTION	640 x 480 / 320 x 240
SPEED	30 Frames/s, 60 Fields/s
SLOT	PCI slot
IN/OUT	NTSC/BNC, RCA, S-Video

TRANSMITTER

- Transmitting the information received via computer & serial communication system to Robot

RF MODULE

FREQUENCY	418Mhz / 433Mhz
SPEED	19200BPS
CHANNEL	10 Channel
	Two way communication



CAMERA

PICK-UP DEVICE	1/3" CCD, 768(H) x 494(V)
LENS	3.5mm - 8mm Zoom



BATTERY

- 7.4V 1400mA (Li-ion Hard-pack battery)

BATTERY CHARGER : Input Voltage : 8.4V



GROUND

- FIRA Official Stadium

DIMENSION	150 x 130cm (FIRA Standard)
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