Arduino Artificial Intelligence Suite

Entry-level Learning Kit for
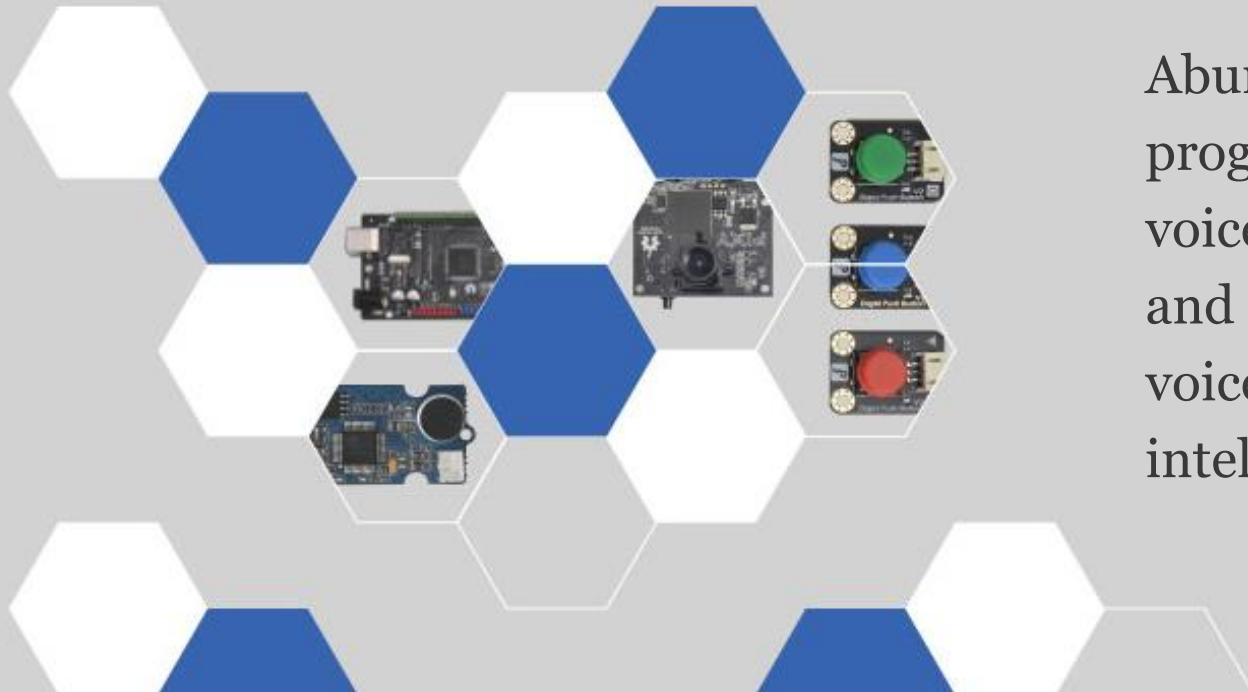Artificial Intelligence

What is Arduino Artificial Intelligence Suite?

As an entry-level learning suite for AI, Arduino Artificial Intelligence Suite features Arduino Mega 2560 control board, LED indicator, joystick, switch button, voice and visual recognition modules. Plentiful courses are provided to help children get started quickly to control the robot arm via programing and easily grasp the basic knowledge of AI, thus cultivating their innovative thinking and understanding of the open source creative culture!

Arduino Artificial Intelligence Suite

DOBOT

Explore Machine Intelligence via Human-machine Interaction

Abundant electronic modules include programmable control board, various sensors, voice and visual recognition. Control the lights and DOBOT Magician by button, joystick and voice to help children explore artificial intelligence in every aspect!

Arduino Artificial Intelligence Suite

DOBOT

Experience the Fun of Electronic Production in PBL

Abundant attracting teaching demos and step-by-step curriculum help students learn interactive devices including sensor perception, controller operation, equipment feedback. Combine learning with playing to unlock unlimited fun of electronic production!

Arduino Artificial Intelligence Suite

DOBOT

Smartly Play Technology in Open Source Electronic Platform

Supporting secondary development and controlled by Arduino, the platform is compatible with Mixly, Arduino-related peripheral sensors, etc., inspiring students with the charm of technology in the open source software and hardware platform!
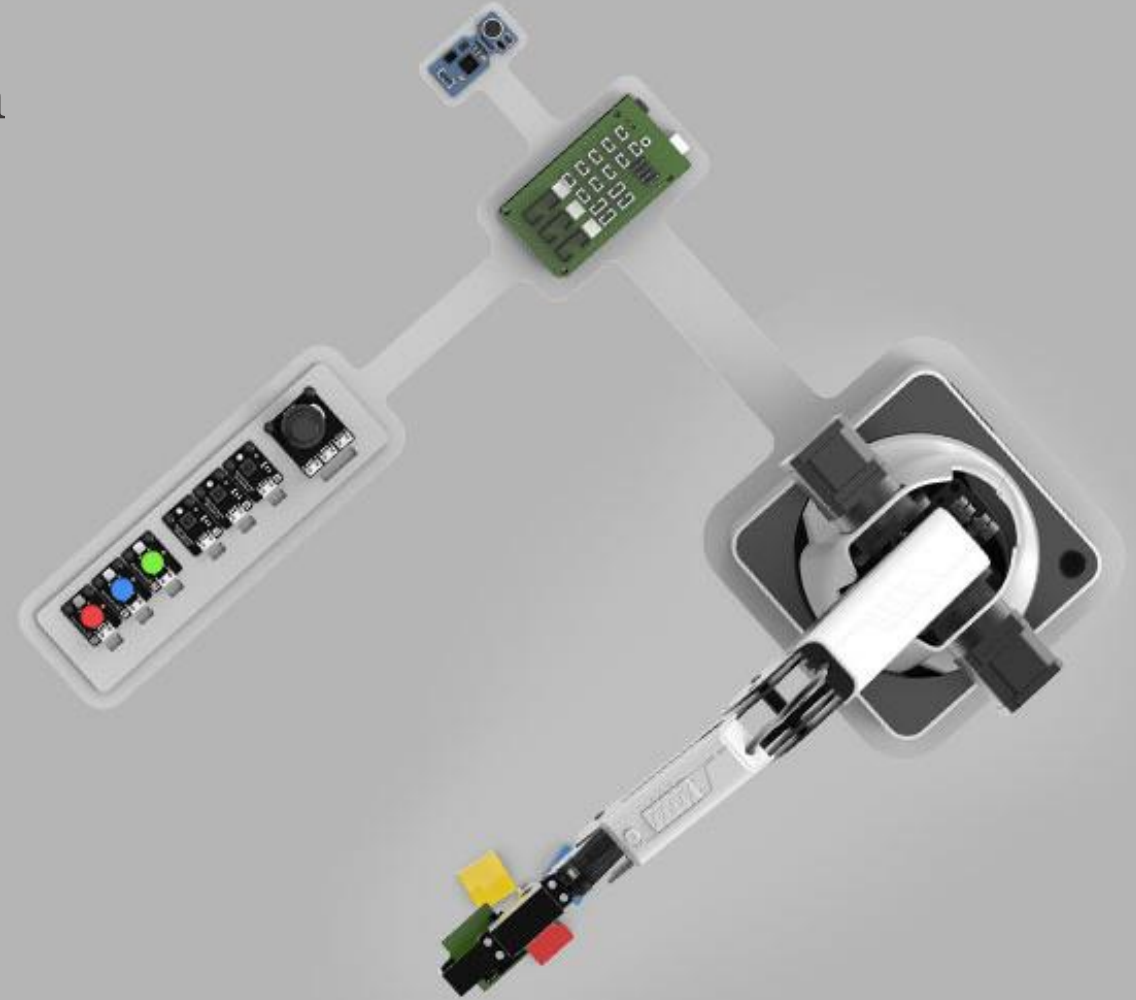
Arduino Artificial Intelligence Suite

DOBOT

Inspire Maker Mindset Through Creative Making

Creating a DOBOT remote controller via programming can turn children's creative ideas into reality and help them learn circuit, programming at the same time!

Arduino Artificial Intelligence Suite SPECIFICATIONS

DOBOT

DfRduino mega2560 V3
(compatible with Arduino mega 2560)

Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7V-12V
Input Voltage(range)	6V-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16 I/O
DC Current per I/O Pin	50 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 4KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16MHz

Digital Button Module

Keycap Color	Red, Green, Blue
Supply Voltage	3.3V - 5V
Data type	Digital
Size	22mm x 30mm

Pixy CUMcam5

Processor	NXP LPC4330, 204MHz, dual-core
Image Sensor	Omni vision OV9715, 1/4", 1280x800
Image Sensor:	75 degrees horizontal, 47 degrees vertical
Lens Type	standard M12 (several different types available)
Power Consumption	140 mA
Power Input	USB Input (5V) or unregulated input (6V to 10V)
RAM	264K bytes
Flash	1M bytes
Available Data Outputs	UART serial, SPI, I2C, USB, digital, analog
Size	2.1" x 1.75" x 1.4"

LED Module

Color	Red, Green, Blue
Brightness	2500mcd to 3300mcd Highlight output
Voltage	3.3V-5V
Wavelength	520nm - 530nm
Angle	80°- 110°
Size	30mm x 20mm
Weight	5g