

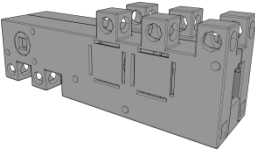
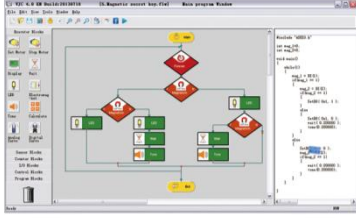




Physical and Technical Specification of C1-P

Detailed Properties:

	<p>This kit contains more than 220 components and 44 kinds of them, including 1 set of controller, 1 set of lithium battery, 2 sets of closed-loop motor, 1 set of DC motor (working voltage 6-9V, 9000 turns per minute, motor cable is provided), 2 touch sensors (working voltage 5V), 2 light sensors (working voltage 5V), 1 revolving counter, 5 gray scale sensors, 2 IR sensors, 1 sound sensor, 4 types of point components, 1 type of line components, 4 types of plane components, 3 types of gears, 2 types of gear cases, 2 types of bearings and 4 types of shafts etc. With this kit, students can realize 28 teaching activities and each one of which is accompanied with a Teacher's Book, a Student's Book, a Building Manual, an example program and a activity field.</p>
	<p>CPU of the controller is ARM 32-byte STM32F103VET6, 72MHz, 512 FLASH, and 64 K SRAM. Not only the controller contains 32 EEPROMs, but also adopts USB download mode; maximum storage space reaching 3.96M; up to 30 programs storage. Display of the controller adopts Dot-matrix LCD 128*64 with backlight and graphs and characters can be displayed. With buttons operation, return values can be read directly from the controller. By changing the parameters of EEPROM, one can control the sound and LCD switch. It contains 4 motor ports, 12 I/O ports. Working voltage ranges from 7.0-8.4V.</p> <p>The lithium battery inside is 8.4V1500MHA and charger is included.</p>
	<p>Working voltage of closed-loop motor ranges from 6.5 to 8.4V, with the electric resistance being 8MΩ, no-load current\leq160mA, no-load revolution speed\geq170rpm, locked current(Protection current) \geq3.2A(1.5A), locked torque: 7.3N•m, efficiency: 75%, speed reduction ratio: 59, gear material: 45# steel, encoder accuracy\leq0.3°.</p>
	<p>The programming software supports standards flow-chart programming and C language. With 0 codes input, one can easily finish programming, meanwhile, C-language codes can be inserted into flow-chart program. The flow-chart program can be converted into C codes automatically. Online updating is supported.</p>