

C500C System Controller

C500C Controller

Powerful and Easy To Use

Compact, Expandable, 30+ Task Multitasking

The C500C is the second generation of the C500 family of motion controllers from CRS Robotics. There are models available for the entire line of CRS robots and lab movers (Catalyst-3, Catalyst-5, A465, and F3, with and without tracks). The compact C500C is capable of running over 30 processes simultaneously for complete workcell control, and fully supports the RAPL-3 programming language and ActiveRobot™ ActiveX® components. These powerful, easy-to-learn, and easy-to-use programming tools make the C500C one of the best robot control platforms available. Our open architecture software design facilitates integration with third party options, making it easy to take advantage of the latest automation trends.



Hardware Features

- Dual high-speed 32-bit processors
- Memory
 - 1 MB Flash memory for firmware storage
 - 512 KB battery-backed SRAM for variables
 - 4 MB DRAM for RAPL-3 execution
- 3 RS232 ports at up to 115.2 kbaud
- 1 Analog input
- Standard 16 digital inputs and 16 digital outputs (12 opto-isolated, 4 relay)
- Power: 50/60 Hz, 115 VAC or 230 VAC
- 19 inch rack-mount compact controller chassis
- Programmable back-lit LCD display on front panel

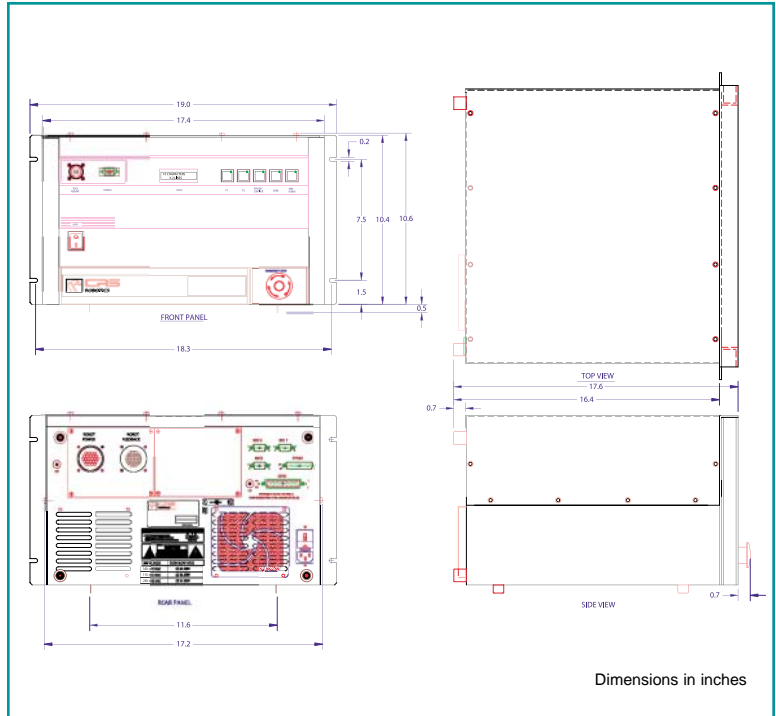
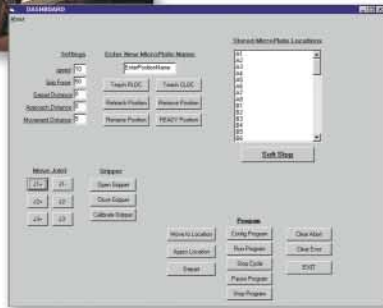
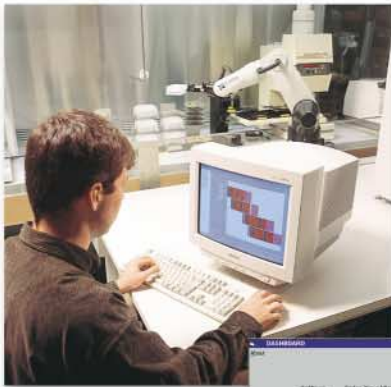
System Features

- Motion modes
 - Joint space, Cartesian space
 - Blended motion, Straight line interpolation
- Teach Pendant
 - Recommended option for teaching locations
- RobComm3™ or ActiveRobot™
 - Recommended software options for offline application development
- UL1740, CE, CSA certified
- Built-in E-Stop circuitry
- Comprehensive failure detection including:
 - AC/DC failure detection
 - Collision detection
 - Runaway detection
 - Amplifier health detection



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Dimensions



- Weight - 31 kg / 68 lb
- Power Requirement - 100/115/230 VAC 50/60Hz
- 10°C to 40°C Operating Temperature

Choose From 2 Unique Development Environments...

Robcomm3

Windows® based development environment

- CROS (CRS Robot Operating System) embedded multi-tasking operating system for complete system control, capable of scheduling over 30 user processes
- RAPL-3 a powerful and versatile programming language
- Easy to understand commands for basic applications
- Powerful commands for experienced programmers and system integrators
- Unparalleled support for multi-tasking and interprocess communications including sockets, pipes, asynchronous signals and shared memory
- PC-based compiler with structured error handling for offline development of complex applications
- Controller-based compiler for rapid development or modification of basic applications

ActiveRobot ActiveX® components for object oriented programming

- Use all the familiar commands to move CRS robots
- Query the status of the robot system, including position, I/O
- Set up an interface to PC-based automation peripherals such as vision systems or fieldbus I/O modules
- Use with Visual Basic®, Visual C++®, Delphi™, or any other Microsoft® COM based language

Contact

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Safety Compliance Standards	
CE (European)	
EM Emissions:	EN55011:1991
EM Immunity	EN50082-1:1992
Machine Safety:	EN775:1992
	ISO 10218:1992 (E)
	EN60204-1:1992
	EN292:191
ANSI/RIA	15.06-1992
CSA (Canadian) Process Control Equipment	
CSA Std:	C22.2 No. Z434-94
Motor Operated Appliances	CAN/CSA-C22.s No 68-92

