

V+ Programming Software Specifications

Specifications

V+ Extensions

With the V+ Extensions License additional capabilities are available in the operating system and programming language, including:

- 28 user tasks per processor
- Multiple V+ OS instances (1 per CPU)
- Multiple Mechanism Support
- Fast interrupt handling using INT.EVENT
- Belt Tracking
- Dynamic Path Modification

Third Party Board Support

This license enables the communication to third party VME boards installed in the controller. It activates the support of the following V+ instructions:

- IOGET
- IOPUT
- IOTAS
- DEF.DIO

Standard Utility Disk includes:

- V+ file management tools
- System configuration tools
- Vision and conveyor belt calibration utilities
- FTP Client/Server Applications
- System Task profiler
- Duty cycle monitor
- Manual Mode Safety Package (MMSP) commissioning utility

Motion Applications

- Full Adept Mechanism Support
- Multiple mechanism support up to 15 mechanisms (24 axes total)
- Single mechanism support up to 12 axes

Integrated Vision-Guided Motion Applications

- Locate arbitrarily positioned parts using vision and move the robot to acquire the parts
- Built-in Calibration tools
- Supports any camera mounting position
- High speed position and picture latching
- On-the-fly imaging

Force Guided Motion Applications

- Mechanical assembly of low tolerance components
- 6 degrees of freedom, real-time force sensing
- Perform force-guarded, force-thresholded motions

Factory Information Systems

- TCP/IP Internet Protocol
- Network File Server (NFS Client)
- DDE Server for data exchange (Microsoft™, WonderWare™, Intellution)
- FTP Server/Client

V+ Utility Software

- Advanced Servo Library available
- Enhanced Kinematics libraries available

Vision Applications

- Powerful ObjectFinder part recognition tool
- Complete measurement and inspection toolkit
- High resolution camera support
- Supports up to 4 cameras per vision board

Conveyor Belt Tracking Applications

- High speed conveyor belt tracking
- Part packing from moving conveyor lines
- Incorporates motion and vision guidance functionality
- Tracking of two independent conveyor belts

Workcell Control

- DeviceNet is standard on AdeptWindows Controller
- 10/100BASE-T Ethernet
- RS-232/RS-485 serial ports
- High speed interrupts (2ms)
- 512 I/O Points

Peripheral Control

- Conveyors, feeders, end of arm tooling
- Communication with tray feeders, PLCs

Programming Environment

- V+ programming with complete syntax checking
- On-line program debugger



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