

# DCI Server

## ON-LINE ROBOT COMMUNICATION SOFTWARE



Visual Data Communication by Instruction (DCI) is an on-line communications protocol developed for Motoman® robots. The DCI Server software application allows the user to utilize this communications protocol to upload and download robot programs and variables.

DCI Server includes a built-in variable editor which allows realtime robot variable modifications including byte, integer, double, real and position variables. These modifications can also be done by manipulating the XML variable database using an external software application for ultimate control.

## HIGHLIGHTS

### Communications Overview

- Jobs written and executed in the robot controller initiate the transfer when the INFORM control instructions LoadV, LoadJ, SaveV, and SaveJ commands are executed. In this configuration, the robot controller commands the communications link.
- The robot controller uses the PC to store supplementary jobs and variables. It also uses the variables to interact with robot programs.
- DCI Server can communicate with multiple robot controllers connected to a network.
- Communication between the controller and the PC is through an Ethernet connection.

### Variable Editor

- Built-in variable editor allows modification of robot variables without removing robot from production cycle.
- Ability to perform "on-the-fly" programming and editing keeps production moving and dramatically reduces system downtime.
- Variables may be attached to user-defined labels that make them more recognizable with DCI Server.  
*Example:* B(1) might be named Next Robot Job, while P(1) might be named Box Corner. These labels are assigned once, saved and reused by simply opening the proper variable file, per the label.
- Editor can modify all five types of robot variables:
  - ▶ byte (B)
  - ▶ integer (I)
  - ▶ real (R)
  - ▶ double precision (D)
  - ▶ position (P)

### XML Data

- XML standard file format allows flexibility of programming and interaction of data with other off-the-shelf software packages such as soft PLCs, editors and HMIs.

### ARM YOURSELF

...with Motoman Robotics' on-line communication software. Add the flexibility to control your robot from a PC...take your Motoman robot production to the peak of performance with DCI Server.

Index	Name	Value
0	Test Var 0	255
1	Test Var 1	1
2		0
3		0
4		0
5		0

VARIABLE EDITOR

Time	Description
4/26/2011 9:24:04 AM	Ping service started...
4/26/2011 9:24:10 AM	DCI started... (2)
4/26/2011 9:26:03 AM	Ping ok (25)

LOG SCREEN

## TOP 3 REASONS TO BUY!

- On-line robot communication server to exchange robot programs and variables with the controller.
- Expand programming capacity of robot controller by storing files on PC.
- Ability to create application to manipulate data for the controller.

## COMPATIBILITY

- DX100 controller
- NX100 controller