

# DENSO ROBOT USER'S MANUAL < SUPPLEMENT >

## Main System Software Version 2.4 or later

The following table shows changes on the upgraded version of software in the robot controller and WINCAPS Series.

Version No.	Date	Item	Description
V2.400	January 2007	Added optional languages	German or Korean can be selected to display.
V2.410	February 2007	$\mu$ Vision Board support	$\mu$ Vision Board support has been added. (See RC7M OPTIONS MANUAL - Chapter 17)
		XYC-4G Series support	Cartesian coordinate robot support has been added. (See GENERAL INFORMATION ABOUT ROBOT and INSTALLATION & MAINTENANCE GUIDE for XYC-4G Series)
V2.500	July 2007	Extended-Joint support	Upgraded to support Extended-Joint related functions. (See SUPPLEMENT FOR EXTENDED-JOINTS SUPPORT)
V2.502	September 2007	SMT7 (RC7M-SMART Controller) support	Upgraded to support SMT7, which controls AC Servomotor. (See RC7M CONTROLLER INSTRUCTION MANUAL (SUPPLEMENT))
V2.600	January 2008	Added optional language	Chinese can be selected to display.
		"Engine 3 board" support	"Engine 3 board" support has been added.
		XR-G Series support	XR-G Series support has been added. (See GENERAL INFORMATION ABOUT ROBOT and INSTALLATION & MAINTENANCE GUIDE for XR-G Series)
		Added new functions	"RESULT option" has been added to RUN, MOTOR, INIT command. Added a function to hide "SHORT CUT" button on TP panel screen.
V2.610	March 2008	Max. payload of VS-G series	Enabled VS-G series robots to carry a payload of 7 kg.
		New control function	Added "High precision control" function and "Singular point avoiding" function. Collision detection function has added to the VS-G series.
		Added a new function	Added a function to perform "Approach" movement by specifying a desired variable.

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V2.700	July 2008	Added new functions	The communication with multiple PCs is enabled via Ethernet. Servo Monitor function and Simplified Tool Coordinates Definition have been added.
		WINCAPS III support	WINCAPS III support has been added.
		New control function	Collision detection function has been added to the VM-G and VP-G series.
		Improved functions	Increased the number of the interference check areas. More logs can be recorded.
V2.720	December 2008	Max. payload of VS-G series (UL-listed model)	Enabled VS-G robots (UL-listed model) to carry a payload of 7 kg.
V2.800	April 2009	Extended joints for SMT7 controller	SMT7 controller supports extended joints and controls up to 8 joints.
		New control function	Collision detection function has been added to the HM-G and HS-G series.
		Added new functions	A new command, "RPM", has been added. b-Cap function has been added.
		Optional languages for WINCAPS III	German, Korean and Chinese editions are available.
V3.000	March 2010	Added new functions	EtherNet/IP Adapter support has been added. Enabled the robot controller to use CC-Link remote resistor RWw and RWr.
		Improved function of WINCAPSIII.	Enabled WINCAPSIII to get information from the controller for creating a new project. "Add comment" function and "Format code" function have been added to the edit function.
V3.200	January 2011	VS-068/087 support	Added VS-xxx SERIES INTRODUCTION GUIDE TO ROBOT MANUAL.
		SINGLE type variable of DEFIO command	Added descriptions of SINGLE type variable of DEFIO command to PROGRAMMER'S MANUAL I.
		New functions of WINCAPSIII	Added descriptions of "Simulation function", "Recording 3D view function" and "Simple position correction function" to WINCAPSIII GUIDE.
		New function: ArchMoveV function	Added descriptions of "ArchMoveV function" to PROGRAMMER'S MANUAL II.
		Singular point avoiding function	Added descriptions of "Enabling Singular point avoiding function during a pass motion" to PROGRAMMER'S MANUAL I and SETTING-UP MANUAL.
		New function: DETECT function	Added descriptions of DETECT function to PROGRAMMER'S MANUAL I.
V3.300	April 2011	VS-050/060 support	Added descriptions of VS-050/060 to VS-xxx SERIES INTRODUCTION GUIDE TO ROBOT MANUAL.

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Version No.	Date	Item	Description
V3.320	September 2011	New functions of WINCAPSIII	Added descriptions of "Program Template function", "Measure point-to-point distance function" and "Inching function" to WINCAPSIII GUIDE.