

# EPSON RC+ 7.5.3 Release Notes

June 30, 2022

Thank you for using EPSON RC+ 7.5.3. This document contains the latest information for this release. Please read before using this software.

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## **Documentation**

All RC+ manuals are in PDF format and are installed on the PC hard disk. These manuals are accessible from the EPSON RC+ 7.0 environment Help menu.

Note: Adobe Reader is no longer included on the installation disc this version. Please use the standard Windows PDF viewer or download Adobe Reader by yourself.

## **Getting Started**

Read the Getting Started chapter in the EPSON RC+ 7.0 User's Guide. This chapter will refer you to a robot controller installation manual. This contains information for initial connections and start up.

## **What's New in version 7.5.3**

### ***General***

1. The RC+ Express Advanced option was added to support RC+ Express advanced operations.

### ***Vision Guide***

Note: For Compact Vision, CV2-A firmware version 3.1.6.0 or greater must be installed.

2. Added Decision and Coordinates tools to support conditional branching in a sequence.
3. Added ScoreMode property so that scores can be obtained for features not found for Correlation, Geometric, and Polar tools.
4. Added AutoRefMoveMode property for calibrations.
5. Added RobotXOffset, RobotYOffset, RobotXYRotateOffset properties for calibrations.
6. New vision objects can now also be dropped in the desired position on the flow chart.

## **What's Fixed in version 7.5.3**

### ***General***

1. A new USB driver for controller communications was added to support Windows 10 core isolation (memory integrity).

### ***Force Guide***

2. The minimum firmness value when using C8 robots was changed from 0.5 to 0.1.

## ***Vision Guide***

Note: For Compact Vision, CV2-A firmware version 3.1.6.0 or greater must be installed.

3. Fixed an error in the calculation when the Tool 0 attitude to the Local plane was  $V = 90$  or  $-90$ .
4. Fixed a problem where an exception occurred when the camera is changed to an invalid value.
5. Fixed a problem where a message box was displayed on the CV2-A monitor if an object used for EndPointObject was deleted.

## ***Simulator***

6. Fixed a problem that the setting is not changed to tool 0 when the specified tool number is not found when reading the hand setting.
7. Fixed a problem where the offset was reset to zero when changing the Mount Position property of a hand.
8. Fixed a problem that the tool specified in the Mount Position property of the hand is not updated to tool 0 when it is deleted.
9. Fixed a problem that an incorrect error message was displayed when the Pick property was specified for a hand in the SimSet command. The message "Hand cannot be specified" should have been displayed, but the message "Child object cannot be picked" was displayed.
10. Fixed a problem where the hand type was CAD in the dialog when saving CAD data of CAD objects and hands in XVL format.
11. Fixed a problem that the position and orientation of the object set as a child object of the Part / Mounted Device is not reflected correctly at the next startup of Simulator.

## **Vision Guide**

### ***Camera & Lens Selection Tool***

A camera and lens selection tool is provided in the EpsonRC70\Tools folder after installation. A PDF file with instructions is provided in the folder.

### ***Parameter Tuning Tool***

A sample project for a vision parameter tuning tool is provided in EpsonRC70\Projects\Samples\Vision\VGTuningTool. A PDF file with instructions is provided in the folder. The GUI Builder option is required to use this tool.