

EPSON RC+ 7.5.4A Release Notes

May 12, 2023

Thank you for using EPSON RC+ 7.5.4. This document contains the latest information for this release. Please read before using this software.

DOCUMENTATION	2
GETTING STARTED	2
WHAT'S NEW IN VERSION 7.5.4A	2
WHAT'S NEW IN VERSION 7.5.4	2
GENERAL	2
PART FEEDING	2
WHAT'S FIXED IN VERSION 7.5.4	3
GENERAL	3
VISION GUIDE	3
PART FEEDING	3
CONVEYOR TRACKING.....	3
VISION GUIDE	3
CAMERA & LENS SELECTION TOOL	3
PARAMETER TUNING TOOL.....	3

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 7.5.4A

1. Added support for GX-10B and GX-20B series robots.
2. The following manuals were updated:

- EPSON RC+ 7.0 User's Guide
- Force Guide 7.0
- Force Guide 7.0 Reference
- GX Robot
- Hand
- RC700-E Controller
- RC700-E Safety
- Safety Function

What's New in version 7.5.4

General

1. Windows 11 is supported except for the following:
Fieldbus Master when using a Molex Profibus board.
2. Added support for GX4-B series and GX8-B series robots.
3. Added support for Safety Functions for the RC700-E controllers.
4. Added support for OPC UA option of USB license. Controller firmware 7.5.4.0 or greater is required.
5. Added utility SPEL+ project for automatic weight and inertia calculations.

Part Feeding

6. Added a setting to specify how many pickable parts must be detected before the PF_Robot callback is executed.

7. Added automatic backlight control and prevention of IF-80 feeder backlight overheating.

What's Fixed in version 7.5.4

General

1. Fixed a problem where unintended bits were changed when you setting SPEL constant name or SPEL function name to I/O labels.

Vision Guide

Note: For Compact Vision, CV2-A firmware version 3.2.0.1 or greater must be installed.

2. Fixed copy sequence for search window don't care pixels when using a CV.
3. Fixed a problem where if SearchWinType was changed from RotatedRectangle to Rectangle or Circle, the window don't care pixel locations were changed incorrectly.
4. Fixed a problem where if a sequence or object was renamed, the search window don't care pixels were lost.
5. Fixed memory leaks for search window don't care pixels.

Part Feeding

6. Fixed search window don't care pixels when using pick regions.
7. The log file was improved so that entries are ordered by Tick.

Conveyor Tracking

8. Fixed a problem where the conveyor calibration wizard outputs incorrect results when the conveyor orientation is configured as tilted.

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.