



RICOH Stereo Camera Software

R-Stereo-GigE-Update

User's Guide

RICOH Industrial Solutions Inc.

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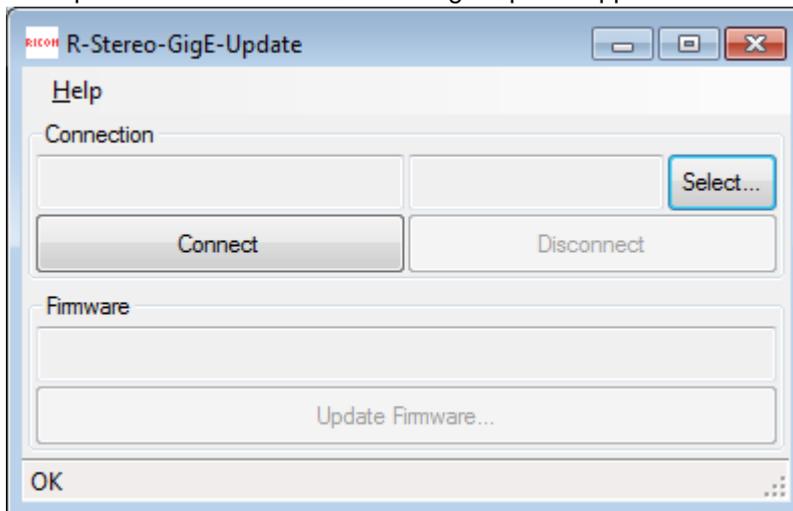
1. Function Overview

In some cases it is necessary to update the internal firmware of the stereo camera in order to provide additional functionality or bug fixes. In this case RICOH will release a new firmware image file. Updating the internal firmware of the stereo camera means to write the new firmware image file to the stereo camera. R-Stereo-GigE-Update provides a simple user-interface for updating the camera' s firmware.

2. Operating Procedures

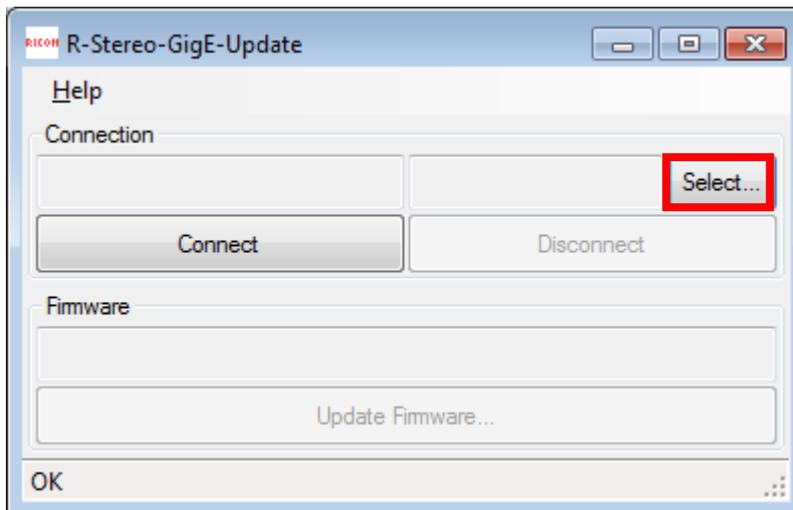
2.1 Select “Start” - “All Programs” - “R-Stereo-GigE-Package X.X.X.XX” - “Maintenance” - “Firmware Update” to launch R-Stereo-GigE-Update.

2.2 The operation window of R-Stereo-GigE-Update appears.

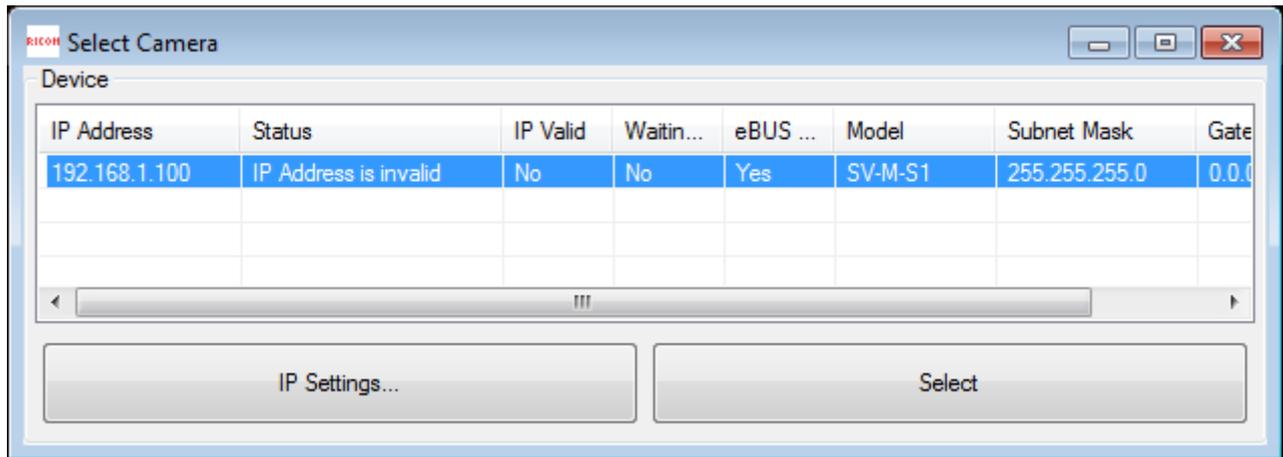


Operation window

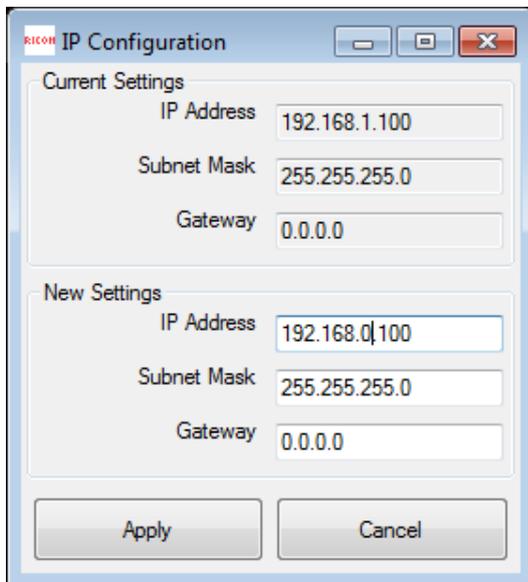
Click the Select button in the R-Stereo-Camera-Update operation window.



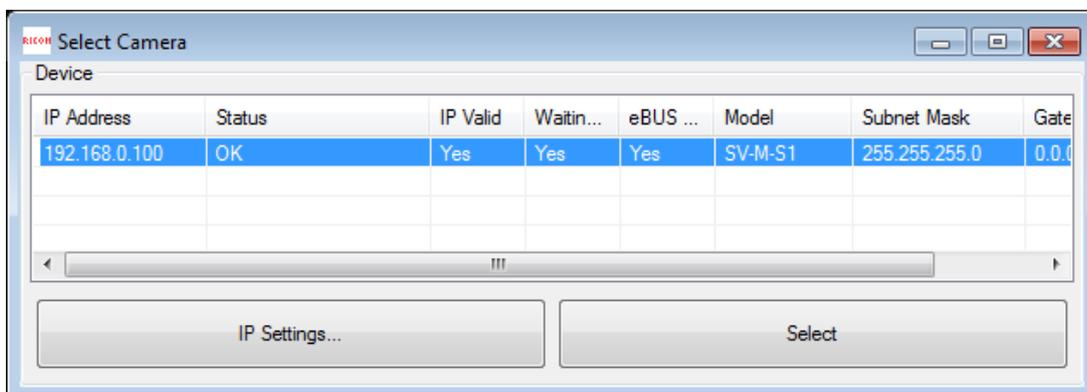
When the Select Device dialog box appears, click the IP Settings button.



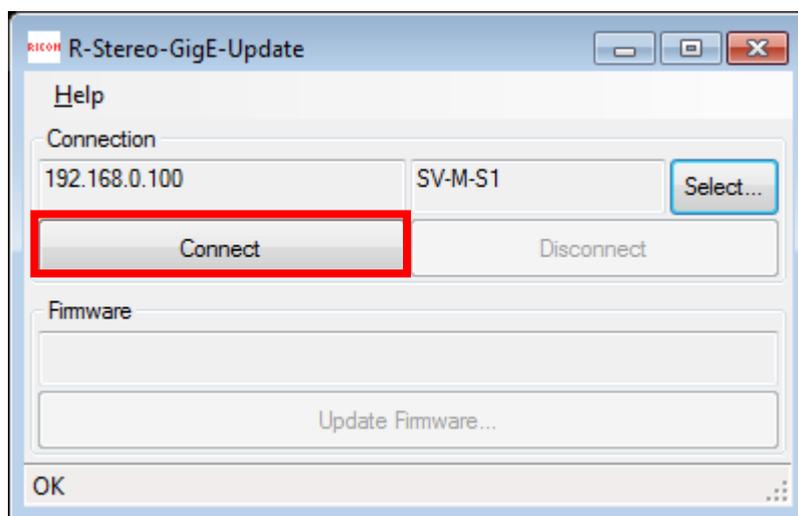
2.3 When the IP Settings dialog box opens, set an IP address and subnet mask for “New settings” that match your PC environment. After configuring the settings, click the Apply button.



2.4 If the status changes to OK, the IP settings are complete. Click the Select button to close the dialog box.

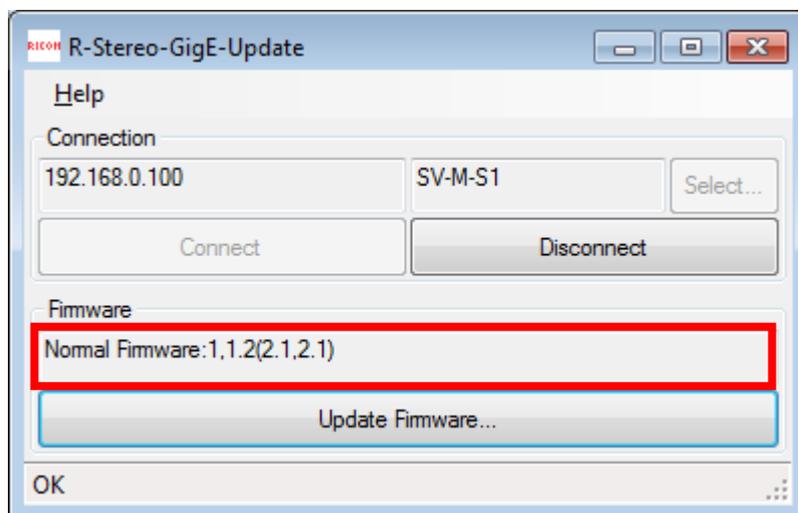


2.5 Click the Connect button.

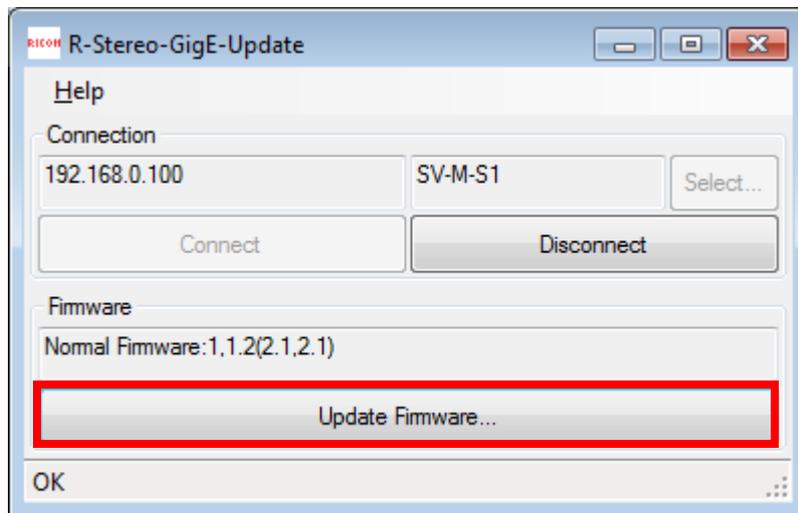


If the Disconnect button becomes available, the connection is successful.

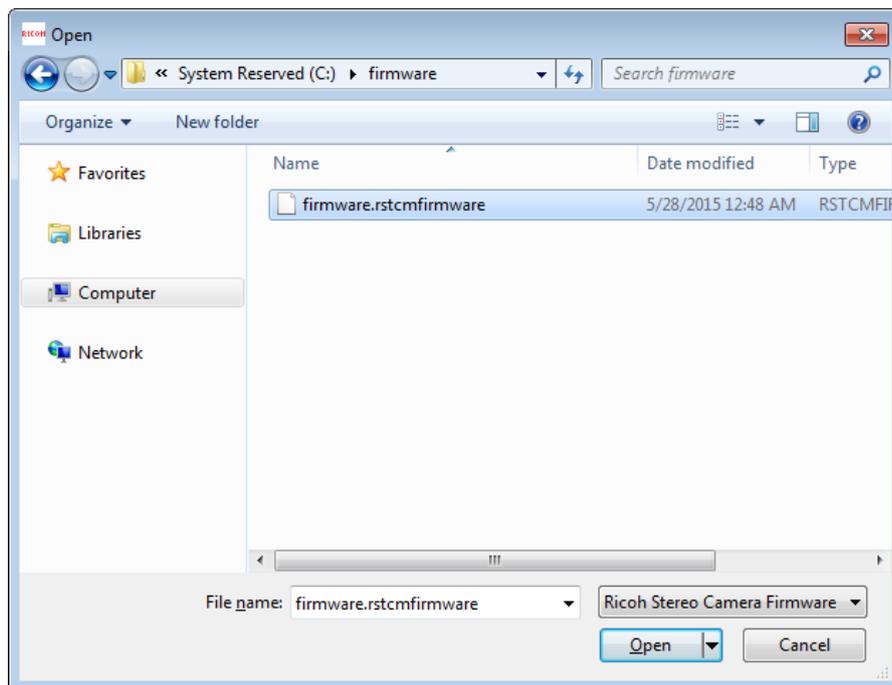
2.6 Verify the current firmware of the camera. If the camera is operating in its normal mode, "Normal Firmware: xxx" should be displayed, where xxx is a version specific string.



2.7 Click the Firmware Update button if you want to update the firmware.



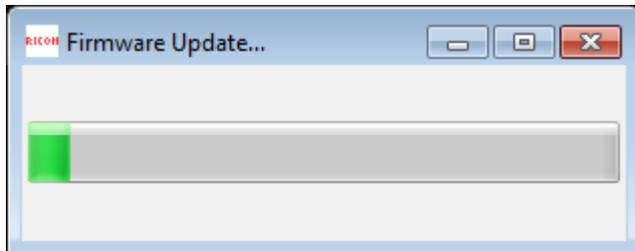
2.8 When the file selection dialog opens, select the firmware image file you want to write to the camera.



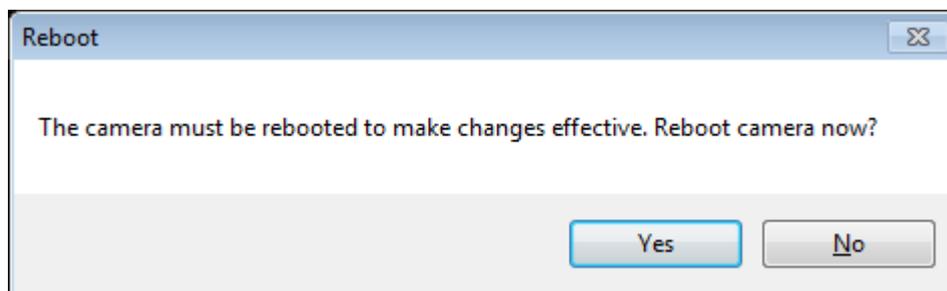
2.9 Please wait while the firmware update is in progress.

Depending on the firmware file size, the update may take several minutes to half an hour.

Make sure that power supply to the camera is not interrupted during firmware update.

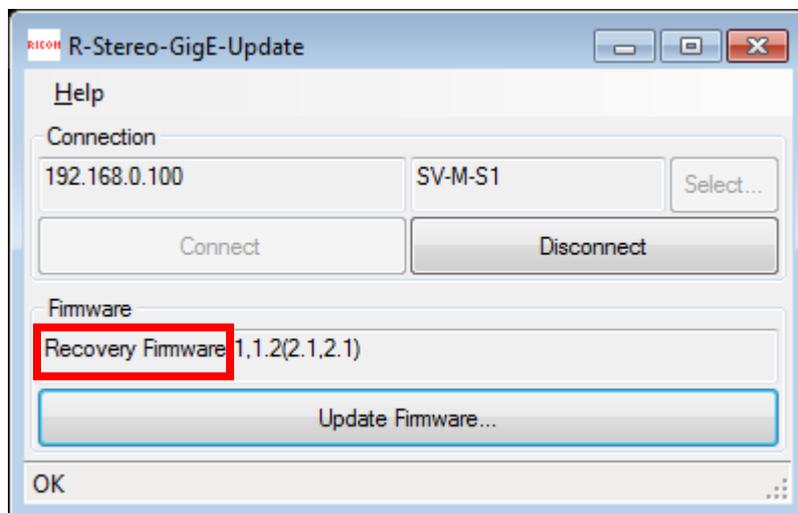


2.10 When the firmware has been written to the camera, it is necessary to reboot the camera. Click Yes in the below dialog.



2.11 It takes about 30 seconds until you can reconnect to the camera. When the reboot sequence is completed, you may reconnect to the camera and verify its firmware as in step 2.2.

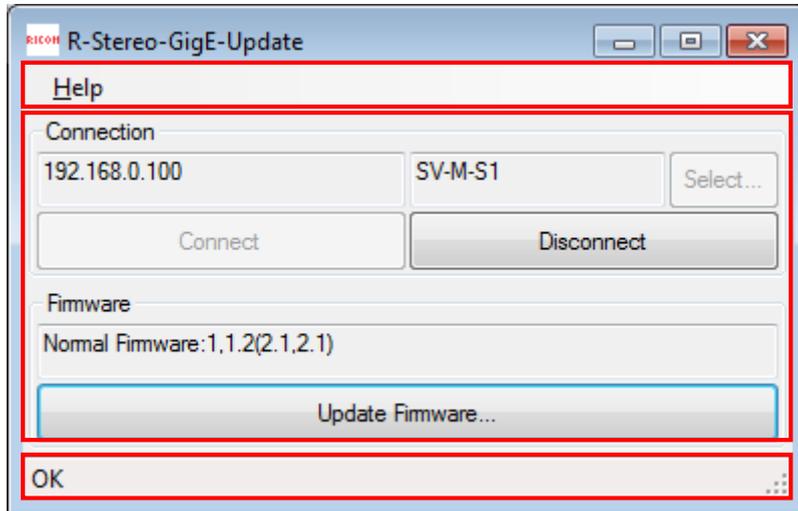
2.12 If the firmware update is for some reason (e.g. power outage during firmware update) not completed, the camera will start in “recovery mode”. In this case, after connecting to the camera, “Recovery Firmware” is displayed (you may also check the camera’s LEDs to see whether the camera is in recovery mode).



If the camera is in recovery mode it is necessary to successfully restart and complete a firmware update in order to restore the camera to normal operation mode.

3. Reference

This section explains the operation window.



Menu bar

Refer to section 3.1

Operation panel

Connection

Refer to section 3.2.1

Firmware

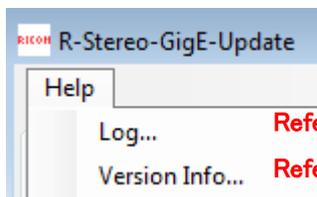
Refer to section 3.2.2

Status bar

Refer to section 3.3

3.1 Menu Bar

3.1.1 Help Menu



Refer to section 3.1.1.1

Refer to section 3.1.1.2

3.1.1.1 Log

Display the log. The log contains information about errors and warnings.

3.1.1.2 Version Info

Display the version information of this software.

3.2 Operation Panel

3.2.1 Connection

Click the Connect button to connect to the selected camera. Refer to section 2. Operating Procedures for details.

Click the Disconnect button to disconnect.

3.2.2 Firmware

Refer to section 2.Operating Procedures for details.

3.3 Status Bar

3.3.1 Execution Result

The result of executing “Connect” or other operations is displayed in the status bar. If the operation ends successfully, “OK” is displayed. If an error occurs, the details of the error are displayed.

Revision History

Rev	Date	Changes	Note
1.00	May 28, 2015	● Newly issued	
1.01	January 6, 2016	● Updated screenshots	