

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.

R-Stereo-GigE-Update				
<u>H</u> elp				
Connection	Select			
Connect	Disconnect			
Firmware				
Update Firmware				
ОК	.::			

Operation window

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

R-Stereo-GigE-Update	
<u>H</u> elp	
Connection	
	Select
Connect	Disconnect
Firmware]
Update Fi	mware
ОК	.:!

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

RI	Elect Camera							
	IP Address	Status	IP Valid	Waitin	eBUS	Model	Subnet Mask	Gate
	192.168.1.100	IP Address is invalid	No	No	Yes	SV-M-S1	255.255.255.0	0.0.0
	•		111					•
	IP Settings					Select		

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.

Reconfiguration	
Current Settings]
in Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
New Settings	
IP Address	192.168.0 100
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
Apply	Cancel

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

RIGH Select Camera	I						
Device							
IP Address	Status	IP Valid	Waitin	eBUS	Model	Subnet Mask	Gate
192.168.0.100	OK	Yes	Yes	Yes	SV-M-S1	255.255.255.0	0.0.0
•							•
IP Settings					Selec	t	



2.5 Click the Connect button.

Recom R-Stereo-GigE-Update	- • •					
<u>H</u> elp						
Connection						
192.168.0.100	SV-M-S1 Select					
Connect	Disconnect					
Firmware	Firmware					
Update Firmware						
ОК .::						

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.

R-Stereo-GigE-Update					
<u>H</u> elp					
Connection					
192.168.0.100	SV-M-S1 Select				
Connect	Disconnect				
Firmware					
Normal Firmware:1,1.2(2.1,2.1)					
Update Firmware					
ОК	.d				



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

R-Stereo-GigE-Update		- • •				
Help						
Connection						
192.168.0.100	SV-M-S1	Select				
Connect	Disc	connect				
Firmware						
Normal Firmware:1,1.2(2.1,2.1)						
Update Firmware						
ОК		.4				

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

RICON Open		×
😋 🔵 🗢 퉬 « System F	Reserved (C:) 🕨 firmware 👻 🍕	Search firmware 🔎
Organize 🔻 New fold	ler	i - 🗊 🔞
☆ Favorites	Name	Date modified Type
🥽 Libraries	firmware.rstcmfirmware	5/28/2015 12:48 AM RSTCMFIF
🖳 Computer		
🗣 Network		
	•	· · · · · · · · · · · · · · · · · · ·
File <u>r</u>	aame: firmware.rstcmfirmware 🔻 🦷	coh Stereo Camera Firmware V Open V Cancel



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.

**** 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.

Reboot	23
The camera must be rebooted to make changes effective. Reboot camera now?	
Yes <u>N</u> o	

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).

R-Stereo-GigE-Update					
<u>H</u> elp					
Connection					
192.168.0.100	SV-M-S1 Select				
Connect	Disconnect				
Fimware Recovery Fimware 1,1.2(2.1,2.1)					
Update Firmware					
ОК	.:				

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.

R-Stereo-GigE-Update			
<u>H</u> elp			Menu bar Refer to costion 2.1
Connection			
192.168.0.100	SV-M-S1	Select	Operation panel
			Connection
Connect	Di	isconnect	Refer to section 3.2.1
Firmware			Firmware
Normal Firmware:1,1.2(2.1,2.1)			Refer to section 3.2.2
Update Firmware			
ОК			Status bar
			Refer to section 3.3

3.1 Menu Bar

3.1.1 Help Menu



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	٠	Updated screenshots	

RICOH Industrial Solutions Inc.