

RSCCAPTURE V2

SOFTWARE MANUAL

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Publisher

ColorGATE Digital Output Solutions GmbH
Grosse Duewelstrasse 1
30171 Hannover
Germany

Contact

Phone: +49 511 942 93-0
Fax: +49 511 942 93-40
E-mail: contact@colorgate.com
www.colorgate.com

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1 About RSCapture

RSCapture is a software package for ColorGATE Productionserver. In Productionserver, RSCapture assumes the role of a driver for various industrial measurement devices.

The following use cases can be distinguished:

- RSCapture drives the measurement device directly. This is the case with the ColorGATE Rapid Spectro Cube.
- RSCapture serves as an interface between the Productionserver and the measurement device. This is the case with the Metis and Cruse scanners.

2 Installation

2.1 Installation of Productionserver

RSCCapture V2 is run as a software module for Productionserver. If you have not installed Productionserver yet, our [Getting Started Guides](#) will help you through the process.

2.2 Installation of RSCCapture

There is no special Installer needed for the RSCCapture V2. The software archive provided to you contains two folders:

- Calibration
- x86

1. Move the subfolder **RSCapture** of the folder x86 to ...\\Program Files (x86)\\ColorGATE Software\\Productionserver21\\
2. You will then need to start RSCapture one time. During this process, the software will create the folder ...\\ProgramData\\ColorGATE Software\\ RSCaptureV2. To be able to use the calibration option later, please copy the corresponding Target Bin file to the following folder, that is created after the first start: ...\\ProgramData\\ColorGATE Software\\RSCaptureV2\\Settings.
3. Additionally, there is the installer vc_redist.x86.exe provided. Please start the installer to install the Microsoft Visual C++ 2019 Redistributable Libraries. If your PC already contains these libraries there will be an error message, telling you that a different version of this product is already installed. In this case, everything is OK, just click the **Abort** button. Otherwise, follow the instructions on the screen.

You can now use RSCapture.

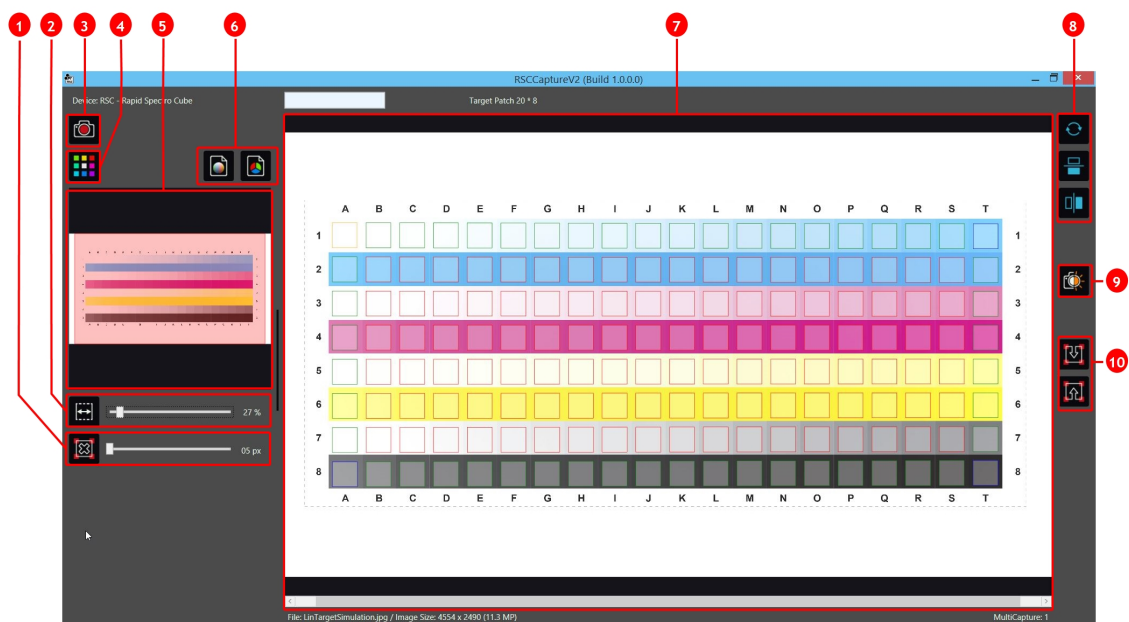
3 Operation

The RSCapture software can only be used in conjunction with Productionserver. It can be called up from any point in Productionserver where you can start a target measurement, for example:

- Linearization and Profiling Assistant
- Media Device Synchronization
- Fingerprint creation

In the following example we will describe how to open RSCapture from the Linearization and Profiling Assistant. The general procedure is identical from every other point of the software.

3.1 UI Overview



Number	Description
1	Zoom Fit: Automatically adjusts the zoom factor in order to display the whole image in the main window. Alternatively, you can use the slider to manually adjust the zoom factor.
2	Grid delete: Deletes the current grid. Use the slider to adjust the patch size within the grid.
3	Capture/Acquire image: If you have a device that is directly controlled by RSCapture, you can capture the target by clicking Capture . Otherwise, you can load a scanned target by clicking Acquire image .

Number	Description
4	Measure target: Measures the target and sends the measurement data to Productionserver. This option is grayed out until you have created a grid for measurement.
5	Small Preview: If you have zoomed in, you can see here which section of the image is currently displayed in the main window.
6	Save as LAB image/Save as RGB image: These options allow you to export a captured image in TIFF format.
7	Main window: Shows the capture area or the captured target. If you have already created a grid, for capturing the target, it will also be displayed here.
8	Rotate: Rotates the image by 180°. Flip/Flop: Mirrors the image horizontally/vertically.
9	Virtual Light: This function makes it possible to generate a reference image that can be used to homogenize the light distribution in the measuring device. Note: This option is only relevant if you are using the ColorGATE Rapid Spectro Cube.
10	Grid load/Grid save: Allows you to load/save a grid, which can be useful for irregularly shaped targets.

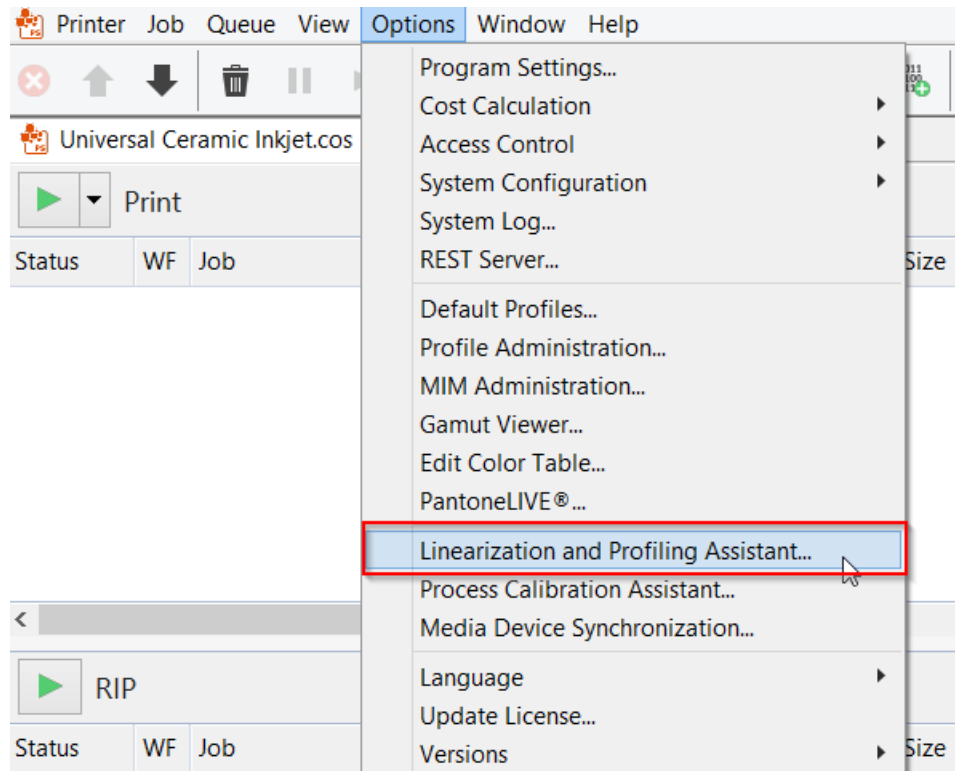
3.2 Calibration

Note: This section is only relevant if you are using the ColorGATE Rapid Spectro Cube or Rapid Spectro Cube LED (RSC).

A calibration chart, a white plate and a black plate are included with the Rapid Spectro Cube LED.

The RSC must be calibrated before first use and when it has not been used for a while. To initiate the calibration please proceed as follows:

1. Open Productionserver.
2. Start the Linearization and Profiling Assistant.



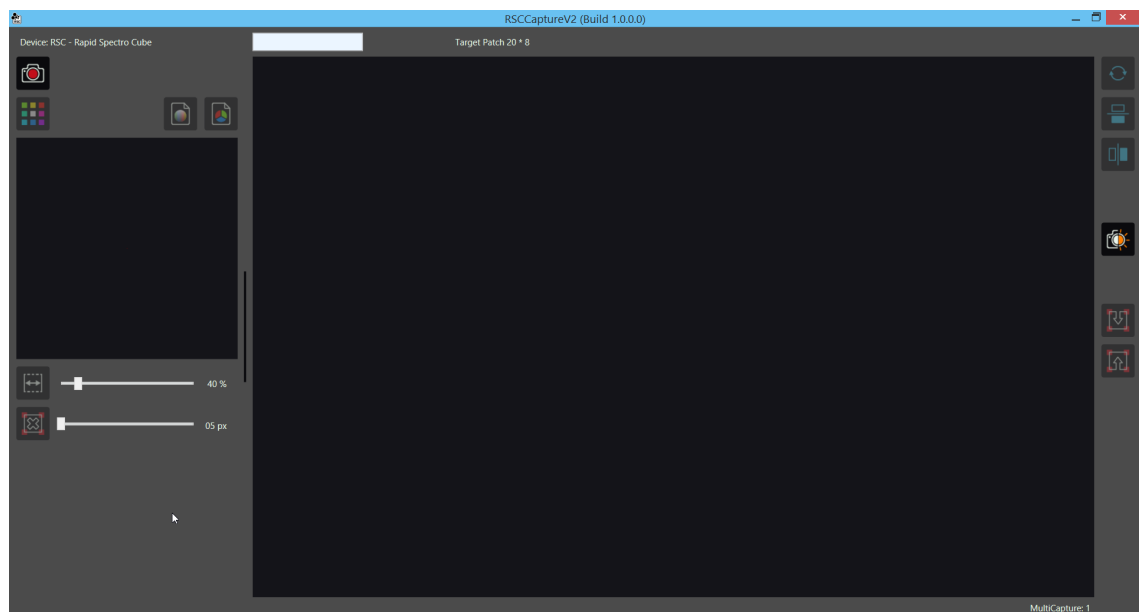
3. Adjust the white balance first: Put the white plate on the lift table in the drawer of the RSC measurement device.
4. Select the ColorGATE Rapid Spectro Cube as the measurement device in the dialogue **Settings**.
5. Press the button **Settings** next to the ColorGATE Rapid Spectro Cube entry.
6. In the following dialogue box, select **Perform calibration**. The RSC Calibration Window will appear.
7. Close the drawer and press **Capture** in the RSC Calibration Window. The lights in the RSC will turn on and the white plate will be captured and displayed.
8. Check if the white plate is captured properly. If not, move the white plate in the drawer accordingly repeat this step until the white plate is captured properly.
9. Remove the white plate after it has been captured successfully.
10. Put the calibration chart in the exact center of the lift table in the drawer of the RSC measurement device, with the first line facing you.
11. Repeat steps 4 to 9 for the calibration chart.

3.3 Measuring

This section explains how to perform a target measurement with RSCCapture. The following example assumes that you want to print and measure a linearization target in the Linearization and Profiling Assistant. Please note that the description is only an example of a measurement, which can be different from company-specific processes.

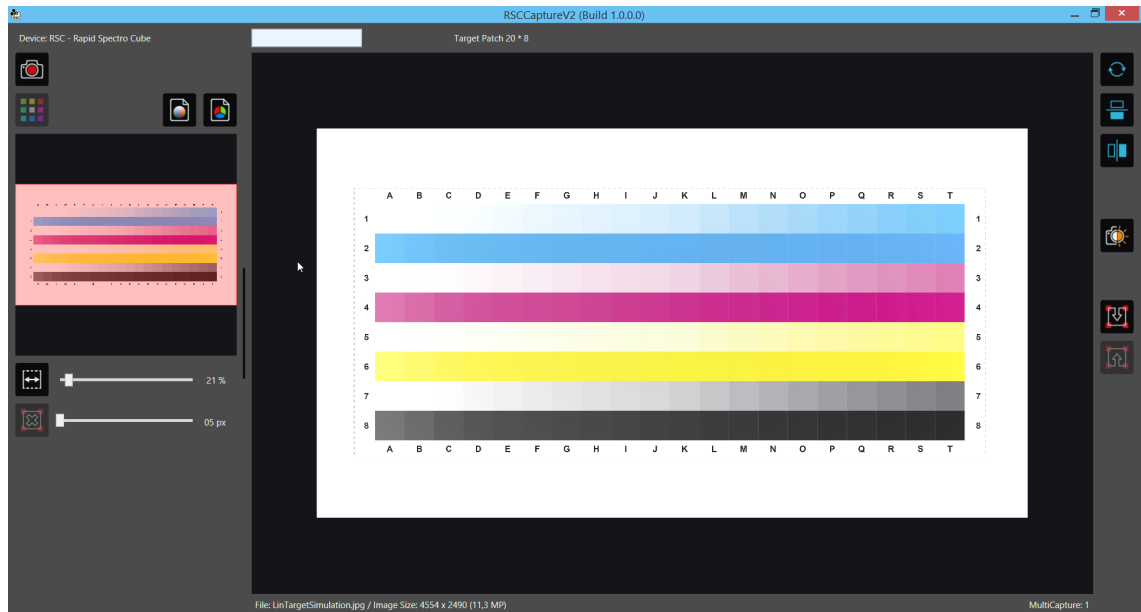
Info: It is useful to have a black background to improve measurements. For this reason, put the black plate with the matt finish facing you on the lift table in the drawer of the RSC.

1. Open Productionserver.
2. Go to **Options** > **Linearization and Profiling Assistant...** and start a new linearization.
3. Select your measurement device that supports RSCapture (e.g. ColorGATE Rapid Spectro Cube) in the **Measurement Device** drop-down menu, then click **Next...** to continue.
4. In the next tab, configure and print the desired target.
5. Click **Start**. The RSCapture user interface window for the target measurement opens.



6. If you are using the ColorGATE Rapid Spectro Cube: Place the target in your measurement device.
7. In RSCapture, click on the **Acquire image** button to capture the target (with the ColorGATE Rapid Spectro Cube) or to load a target captured with your measurement device from a file directory (with other drivers).

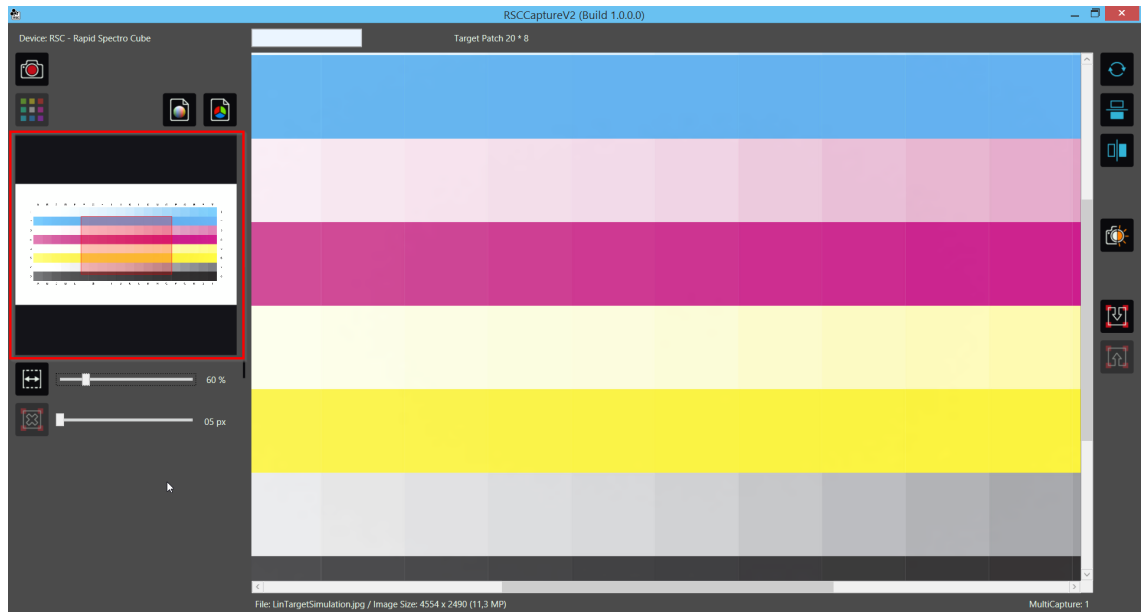
Subsequently, the target appears in the large preview window.



8. Use the **Zoom Fit** slider to adjust the zoom factor of the preview.



A full-screen preview is still displayed in the small preview window on the left. The red overlay indicates the part of the image that is displayed in the main window.

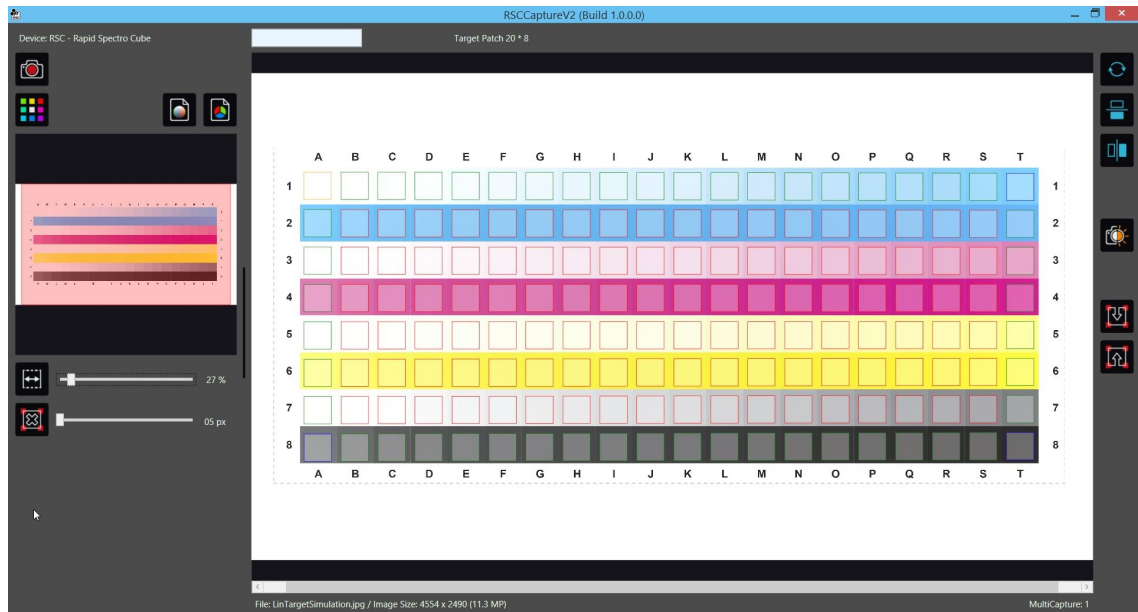


9. Now mark the four corners of the target.

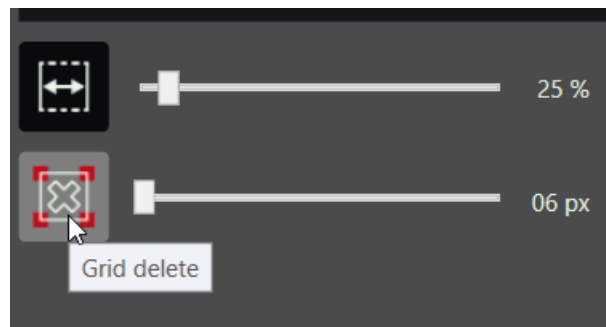
To do this, appropriate markers must be set in the middle of the four patches in the corners of the target. This must be done clockwise, beginning at the top left: top left (A1), top right, bottom right, and bottom left.

To add a marker, click with the right mouse button in the middle of the patch. If necessary, the marker can subsequently be shifted to the middle of the patch.

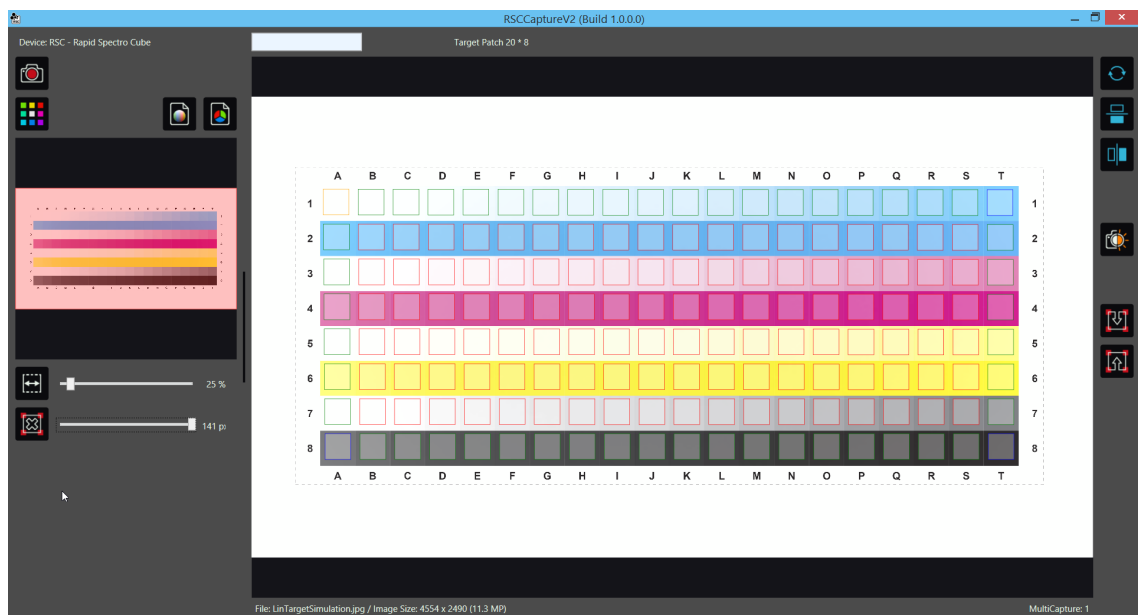
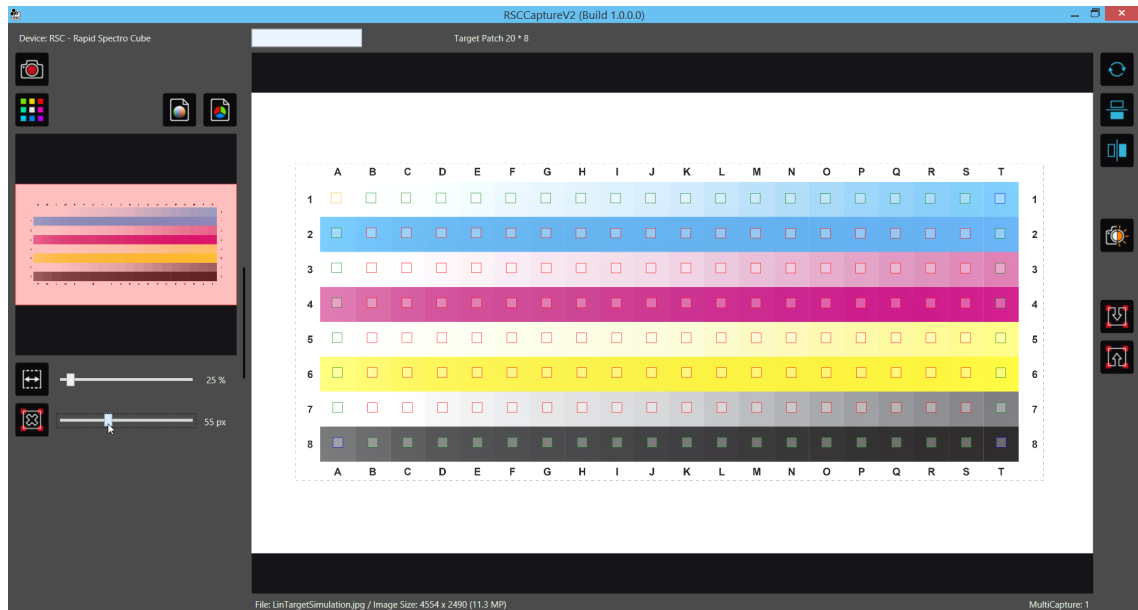
10. After you have added markers in all four corners of the target area, a grid will be shown.



11. The grid can be deleted by clicking the **Grid delete** button.



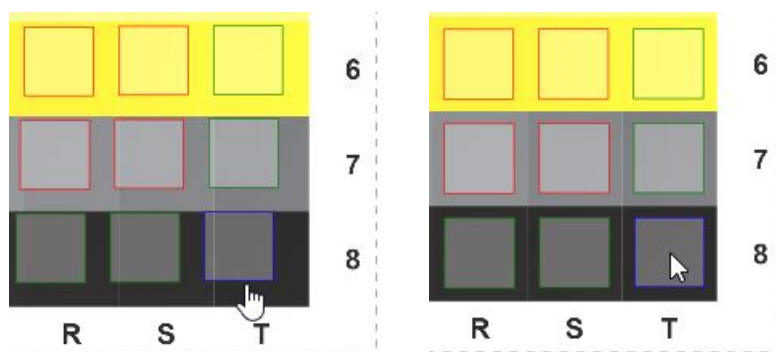
12. To increase the quality of the measurement, use the slider next to **Grid delete** to adjust the size of the grid boxes to cover as much of the target patches as possible without going beyond them.



13. With the left mouse button, it is possible to move the markers to align the grid or to bring the markers to a better position.

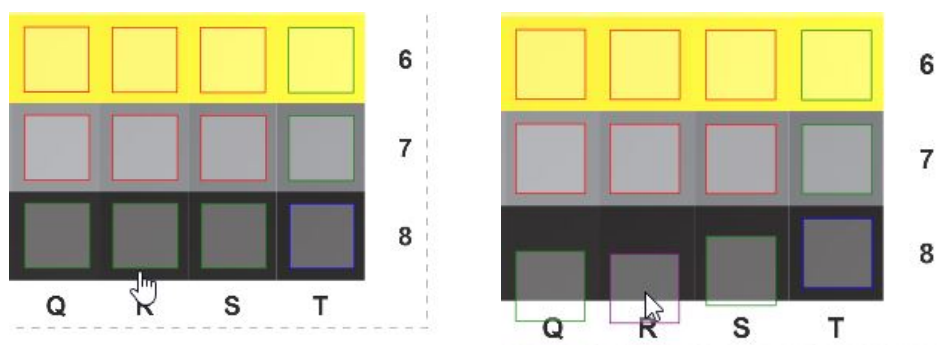
Grid options:

- a. Move corner marker:



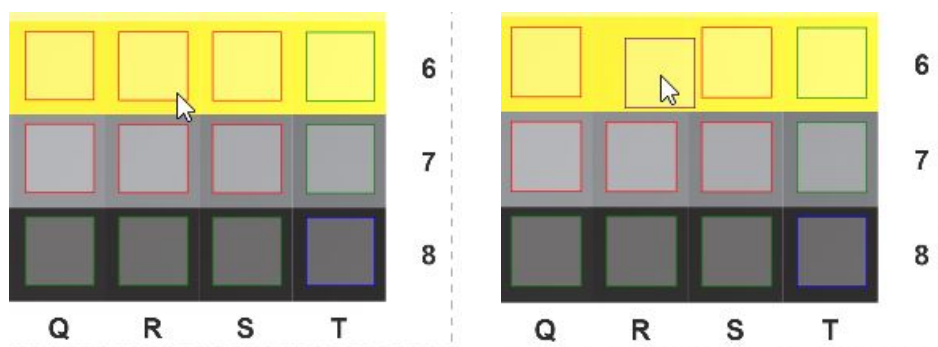
When moving a corner marker, there is no change of its color and the grid follows the marker.

- b. Move side marker:



When moving a side marker, its color changes to purple and it is excluded from the grid. The grid follows the marker.

- c. Move center marker:



When moving a center marker, its color changes to purple and it is automatically excluded from the grid. If the grid is moved afterwards, the center marker will not follow the grid, but will keep the defined position.

14. Click on the **Measure** button:



The target is measured and the **RSCapture** window is closed.

The measured data is transferred to Productionserver and displayed in the Linearization and Profiling Assistant. In the **Measure Target** area you can see whether the measurement was carried out successfully.

Measure Target

Measurement values read in completely!
 Click on 'Start' to repeat the measurement.

4 Service Information

Value Pack

The Value Pack is a software maintenance and support contract available with all ColorGATE software solutions. It includes all updates and upgrades as well as access to technical support.

More information can be found [on our website](#).

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If your dealer is unable to help you, our websupport is at your disposal. Open <https://support.colorgate.com> and log in with your personal login credentials. Via **Service & Support > Websupport** you can create a websupport ticket.

Note: Please note that our websupport is only available with a valid ValuePack.