

RICOH
imagine. change.



RICOH Auto Color Adjuster

Colour Management Solution

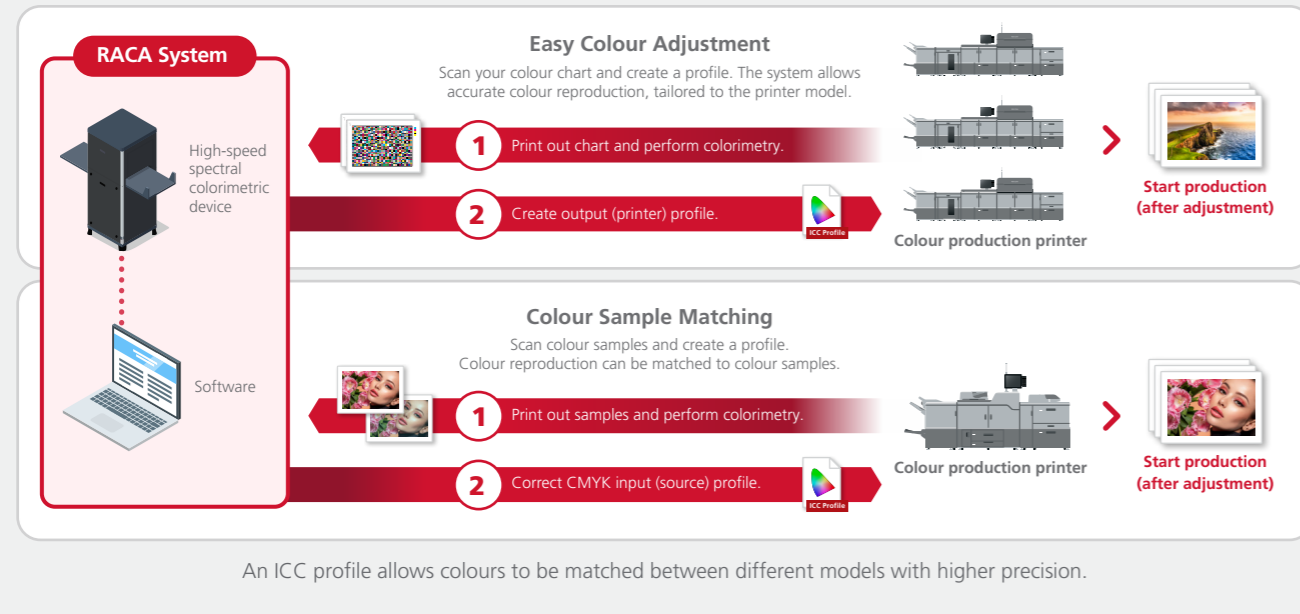
Simplify and automate your colour matching process across devices and media types with this new hardware and software solution, designed for for production print environments.

The new standard in colour matching

RICOH Auto Color Adjuster (RACA) is a new colour management solution leveraging the power of digital technology to streamline and define a “new normal” in colour matching. Revolutionise your printing operations with a system that simplifies visual colour matching and management through automated operation.

Traditionally, colour matching requires time-consuming work done by skilled operators. RACA removes this burden in the production printing workflow, easing the task of performing daily adjustments and verifications. By representing colour quality in terms of numerical values, it allows for efficient and objective quality control, and features proprietary Ricoh technology enabling colour matching against actual image samples.

RICOH Auto Color Adjuster is an easy-to-use colour matching system requiring no specialist skills.



Key Features

1 Quick Colour Adjustment

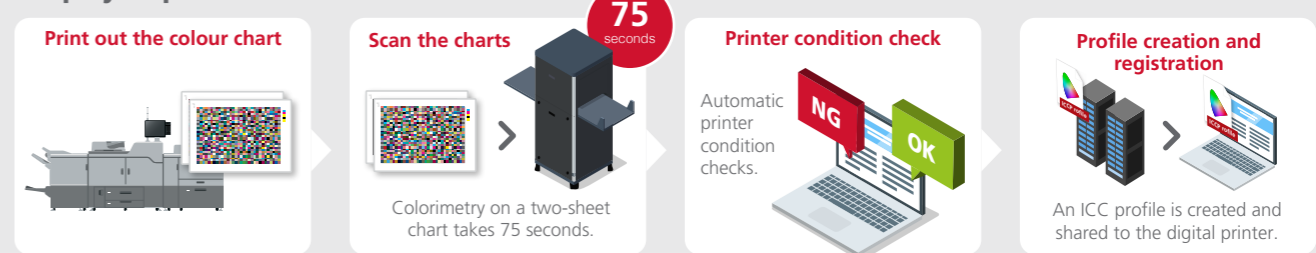
Issues

- Even after calibration, colours don't quite match across multiple printers.
- Daily adjustment operations are inefficient and difficult to perform with precision.

Quick Colour Adjustment allows:

- High-speed profile creation that makes daily colour adjustments efficient and precise.
- The use of ICC profiles that are tailored to the condition of each model, reducing the colour differences between printers.

Step-by-step:



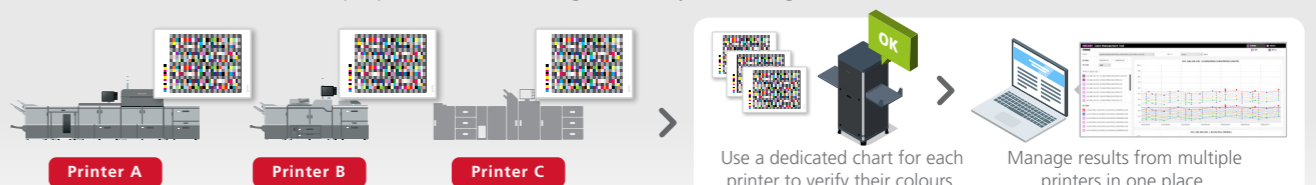
2 Verification and Management

Issues

- The colour condition of multiple printers has to be checked manually.
- No centralised management or status visualisation of different models.

Verification and Management ensures that:

- Production always starts at a uniform quality level by performing colorimetry with a dedicated chart. An internal pass/fail system can determine the average and maximum colour difference relative to the standard values of the Fogra Validation Printing System*.
- Verification results from multiple printers can be managed centrally, and changes in colour over time can be monitored.



* Colour verification is carried out using Fogra Media Wedge V2, but the chart layout has been modified for Ricoh. This does not mean that Fogra Validation Printing System (ISO 12647-8) is guaranteed. Note: FOGRA is a registered trademark of FOGRA Forschungsgesellschaft Druck e.V.

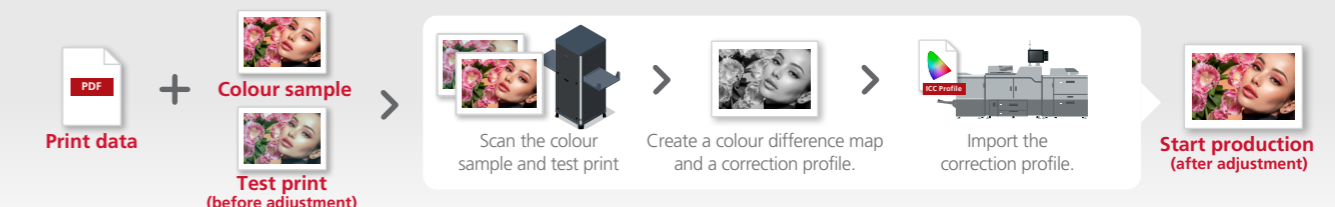
3 Colour Sample Matching

Issues

- Using tone curve adjustments to match a specific colour sample is a time consuming process.
- Colour matching requires skill and is often left to proficient operators.

With Colour Sample Matching, you can:

- Create CMYK input (source) profiles that match colour samples easily through colorimetry.
- Assign any operator to do quick, efficient colour matching.

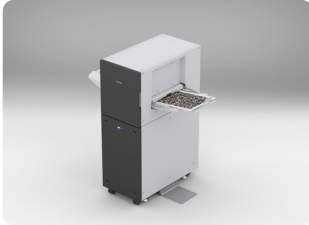


Note: RGB data not supported. High-precision colour matching may not be possible for certain images (e.g., material with very few colorimetric points).



RACA delivers spectral colorimetry with ultra-high speed and precision.

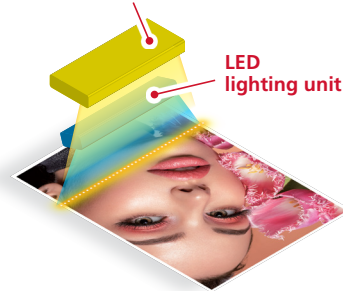
- Scans 1,689 patches quickly and automatically creates output (printer) profiles for them, enabling precise, daily colour adjustments
- Performs spectral colorimetry over the entire paper surface, which allows it to execute, extract L*a*b* values, then create CMYK input (source) profiles directly from the actual image.



High-speed colorimetry:
just 35 seconds to scan a chart
containing approximately 800
patches per sheet*

*No automatic sheet reversal function. Only supports single-sided scanning.

Spectral colorimetry unit



**102 points of simultaneous
measurements by parallel
sensor elements**

RICOH Auto Color Adjuster Specifications

| | | | |
|--|--|---|---|
| Dimension(WxDxH) | 1,102 x 727 x 1,098 mm when using the sheet-feed tray and extension. 913 x 727 x 1,098 mm when storing the sheet-feed tray. | PC specifications | Using a PC exclusively for the function of this machine is recommended. OS: Windows® 10 Pro 64 bit ver2004 or later, Web browser: Chromium, CPU: core i7 or later, Memory: 16 GB or higher HDD: 256GB or more, I/F: USB3.0 (Type A)x1 port, USB2.0 (Type A)x1 port Or USB 3.0 (Type A)x2 ports are allowed |
| Weight | 86 kg or less | Quick Colour Adjustment | |
| Warm-up time | 300 seconds or less | Number of printers that can be profiled | Base 3 units (after the 4th unit charged separately) |
| Paper type | High-quality paper, coated paper, matte paper, and art paper | Adjustment time | 220 seconds (with adjustment of one unit) from the start of reading to the completion of profile creation. |
| Paper weight | 73.3–279 g/m ² | Profile importation | Both automatic and manual operation are supported. * Refer to the list below for models supporting automatic profile registration. |
| Paper size | Width: 210-330.2 mm Length: 210-487.7 mm | Automatic profile import compatible printer models | <ul style="list-style-type: none"> RICOH Pro C9210/C9200+ colour controller E-45/E-46 or TotalFlow Print Server R-62 RICOH Pro C7210S/C7200S+ colour controller E-45A/E-46A or TotalFlow Print Server R-62A RICOH Pro C5310S/C5300S+ colour controller E-27B/E-47B RICOH Pro C9110/C9100+ colour controller E-43 RICOH Pro C7110S/C7110/C7100S+ colour controller E-43A RICOH Pro C5210S/C5200S+ colour controller E-24B/E-44B * Please refer to the Ricoh website for the latest supported version |
| Measurement guarantee area | Entire paper area except the following areas: Within 8 mm each from the left and right edges and 30 mm each from leading and trailing edges | Data format | PDF (CMYK data) * PDF1.3(Acrobat 4.x), PDF1.4(Acrobat 5.x), PDF1.5(Acrobat 6.x), PDF1.6(Acrobat 7.x), PDF1.7, Adobe Extension Level 3(Acrobat 9.x), PDF1.7, Adobe Extension Level 8(Acrobat X), PDF/X-1a, PDF/X-3, PDF/X-4 * Not supported for PDF with no embedded data or fonts, including RGB and feature specifications |
| Paper capacity | Coated paper: 70 sheets in 104.7 g/m ² | Adjustment time | 150 seconds or less * Does not include time for test printing, manual setting, and importing profile. |
| Output capacity | Coated paper: 470 sheets in 104.7 g/m ² | Profile importation | Manual profile import required; automatic import is not supported |
| Scanning speed <small>Note: Warm-up time not included.</small> | A3 SEF: 40 seconds/sheet for the first sheet, 35 seconds/sheet for the second and subsequent sheets, SRA3: 40 seconds/sheet for the first sheet, 40 seconds/sheet for the second and subsequent sheets, A4 LEF: 30 seconds/sheet for the first sheet, 25 seconds/sheet for the second and subsequent sheets, A4 SEF: 35 seconds/sheet for the first sheet, and SRA3: 30 seconds/sheet for the second and subsequent sheets | | |
| Colorimetric surface | Simplex only | | |
| Operation panel | Not mounted * Windows® PC must be prepared separately by the customer. | | |
| Interface | Connect two USB Type A (3.0) cables to a Windows® PC for operation * Two USB cables are bundled. | | |

Note: RACA supports CMYK colour profiles only

Elevate production print with RICOH

Ricoh empowers print businesses to embrace digital transformation. Drawing on over 90 years of imaging expertise, we deliver end-to-end hardware, software, and services that help you expand applications, streamline workflows, and unlock new growth opportunities in commercial printing.

Visit ricoh-ap.com or contact your RICOH Graphic Communications representative to learn more.

