EIZO®

\Easy/

Screen-to-Print Color Matching Guide

Let's begin!

There are many ways to work with and enjoy printed photos.

Creating postcards using your favorite shots
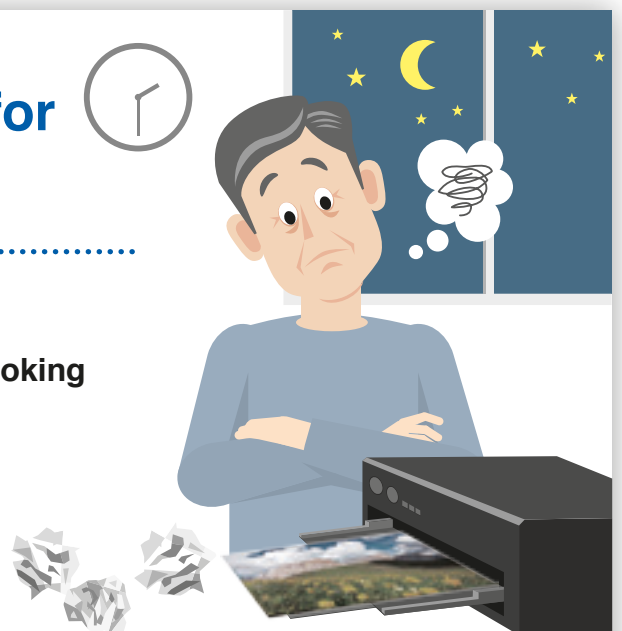
Entering your work in photo competitions

Making a photo album to share with family and friends

But without a monitor suited for color matching photos…

The colors you carefully retouched will print out looking different than intended.

This results in a lot of wasted time doing multiple prints trying to get the correct color.

Having an easy and reliable color matching system makes printing photos more enjoyable!

Photo shown on the monitor

Photo printed out on an inkjet printer

☑ **Reduce the time and cost of making multiple prints**

☑ **Retouch your photos with confidence**

This guide explains how you can achieve easy color matching for accurate prints with no hassle!

Steps to Achieve Color Matching

Monitor Adjustment

Retouching Software Settings

Ps

Going through each setting is a hassle.

It is not only important to adjust the monitor, but also to select the correct settings for your retouching software and printer. With even one misstep, your photos may not print with the correct colors.
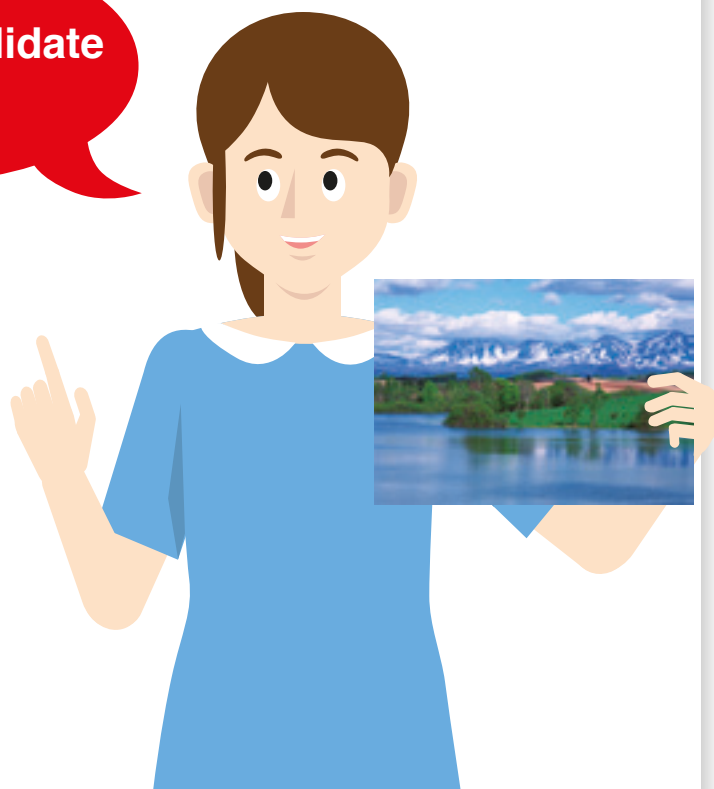
Printer Settings

Environment Preparation

We can consolidate
these steps!

Introducing a unique software solution
that automatically configures the
monitor, retouching software, and
printer settings for you.

QUICK COLOR MATCH

See next page.

EIZO's Screen-to-Print Color Matching Software
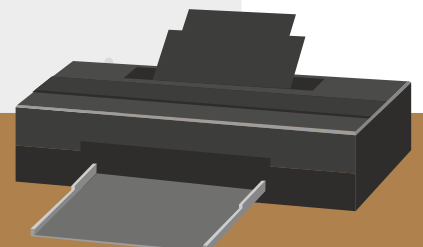
QUICK COLOR MATCH

Quick Color Match is EIZO's own software solution that greatly simplifies the color matching process for photo enthusiasts and professionals alike. It was developed under a first-ever collaboration between EIZO and Adobe, Canon, and Epson.

Quick Color Match automatically adjusts to the ideal monitor, retouching software, and printer settings so you can focus on editing your photos and print your work quickly and hassle-free.

☑ **Monitor Settings**

Automatically adjusted!

☑ **Retouching Software Settings**

☑ **Printer Settings**

1 Preparation for Color Matching

2 Monitor Connection and Software Installation

3 Easy Color Matching

Let's try

Matching Complete

Now you can easily match your prints to your screen!

Preparation for Color Matching

A suitable monitor is needed when matching the color of your prints to the screen.
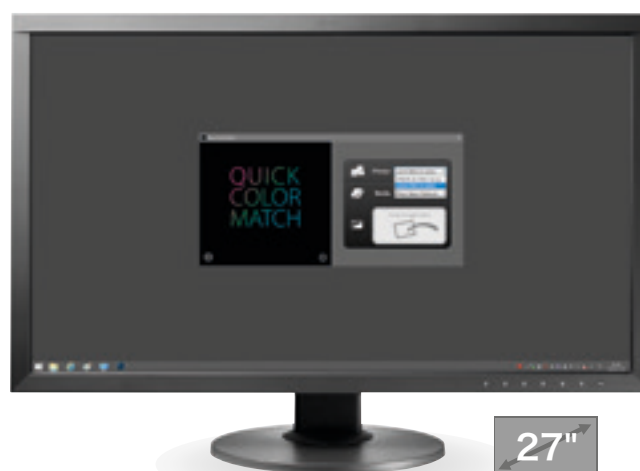
Color Management Monitor

Monitors Supported by Quick Color Match

Recommeded Models!

24.1"

ColorEdge® CS2420

27"

ColorEdge® CS2730

CS230	CG247X	CG2420	CG279X	CG2730

Ample Screen Size for Creative Work

The CS2420 can display two A4 pages plus tool palettes on its 24.1-inch screen. The CS2730 gives you even more room to work with its spacious 27-inch screen.

Monitor Features

1 99% Adobe RGB Coverage
Images shot in Adobe RGB or sRGB will be displayed correctly.

2 Smooth Gradations

3 Uniform Brightness and Color

Choosing the Right Monitor

1 **Displays the Correct Color Space**

It is important to select a monitor that correctly displays Adobe RGB and sRGB to reproduce colors faithfully.

2 **Displays Gradations Smoothly**

In order to display solid colors and depth perception with high accuracy, a monitor that displays smooth gradations without banding is needed.

3 **Displays Uniform Brightness and Color**

A monitor that has been adjusted in advance to correct uniformity errors is most appropriate to ensure brightness and color are even across the screen. It is also important that it counterbalances changing color temperature and brightness due to the passage of time.
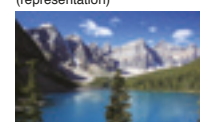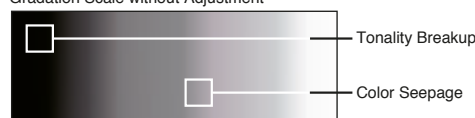
■Results vary depending on model and environment.
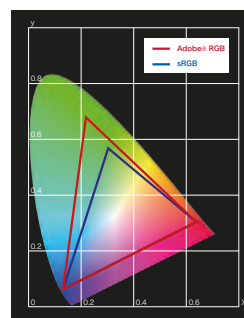
Adobe® RGB
sRGB

Adobe RGB Color Space
(representation)
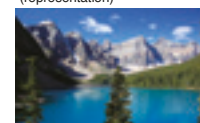
sRGB Color Space
(representation)

Gradation Scale without Adjustment

Tonality Breakup

Color Seepage

Gradation Scale After Adjustment

Without Uniformity Correction   With Uniformity Correction

Did you know? 💡 **Before installing!**

Confirm that your ColorEdge monitor is correctly connected to your PC.

Desktop PC   Notebook PC   All-in-One PC

❶ Confirm the available output connections

When using an all-in-one PC, confirm that you have the appropriate outputs and check which cables come with your monitor. If your monitor's cables do not match your PC's available outputs, you may need to obtain additional cables.

❷ Check the maximum resolution

Referring to your PC's user manual, choose a monitor with the appropriate resolution supported by the available outputs.

Example of a notebook PC's output terminals

Types of PC outputs

DisplayPort   HDMI   DVI   Thunderbolt(1~2) / Mini-DisplayPort   USB Type-C / Thunderbolt 3

Preparation for Color Matching

PC Requirements

■ **Windows**   Windows 10 / 8.1 / 7

■ **Mac**   macOS High Sierra (10.13) / macOS Sierra (10.12) /
OS X El Capitan (10.11) / Yosemite (10.10) / Mavericks (10.9)

Printer

Canon

PIXMA PRO-10S

Gallery-quality A3+ photo printer with 10-ink system.

PIXMA PRO-1   **PIXMA PRO-100S**
PIXMA PRO-10   **imagePROGRAF PRO-1000**
PIXMA PRO-100

Epson

SC-P600

Professional A3+ printer with Epson UltraChrome HD ink technology for unsurpassed quality.

SC-P800   **Stylus Photo R3000**
SC-P400   **Stylus Photo R2000**

Printer availability varies by country. See printer manufacturer for details.

Retouching Software

Adobe Photoshop CC／CS6

Other Supported Retouching Software

Canon	■Adobe Photoshop Lightroom ■Adobe Photoshop Elements ■Canon Digital Photo Professional
Epson	■Adobe Photoshop Lightroom ■Adobe Photoshop Elements ■Nikon ViewNX-i

When using the above retouching software, confirm colors on the print plugin window.

Printer Paper

Canon Paper

Photo Paper Platinum
Photo Paper Plus Glossy
Photo Paper Pro Luster
Photo Paper Pro Premium Matte
Photo Paper Plus Semi-Gloss
Matte Photo Paper

Epson Paper

Velvet Fine Art Paper
Ultra Smooth Fine Art Paper
Premium Glossy
Premium Semigloss
Premium Luster
Achival Matte
Matte

ILFORD Paper

ILFORD Gold Fibre Silk
ILFORD Gold Fibre Gloss
ILFORD Smooth Cotton Rag
ILFORD Textured Cotton Rag
ILFORD Smooth Pearl
ILFORD Smooth Gloss

Pictorico Paper

Pro Hi-Gloss White Film
Pro Hi-Gloss Photo Paper
Pro Semi-Gloss Paper
Pro Cotton Paper
Pro Soft-Gloss Paper
Pro Design Paper Plus
GEKKO Blue

Hahnemühle Paper

FineArt Baryta
Photo Rag Baryta
Photo Rag (188, 308, 500, Duo)
Photo Rag Bright White
Photo Rag Ultra Smooth
German Etching
Hahnemühle Photo Luster
Hahnemühle Photo Matt Fibre

SIHL Paper

Metallic Pearl High Gloss Photo Paper 290
High Gloss Photo Paper 330
Lustre Photo Paper 300
Lustre Duo Photo Paper 330
Satin Baryta Paper 295
Smooth Matt Cotton Paper 320
Textured Matt Cotton Paper 320

Tecco Paper

PHOTO PM230 Matt
PHOTO PL285 Luster
PHOTO PUW285 Ultra White
PHOTO PFR220 DUO Fine Art Rag
PHOTO GB330 Galleryboard
PHOTO BT270 Baryt
PHOTO BMT275 Baryt Matt

■ Papers supported by Quick Color Match vary depending on the printer model.
To see which papers are supported by your printer, visit: www.eizoglobal.com/i/qcm-paper/

■ See the Quick Color Match user's manual for how to add additional papers: www.eizoglobal.com/i/qcm-manual/
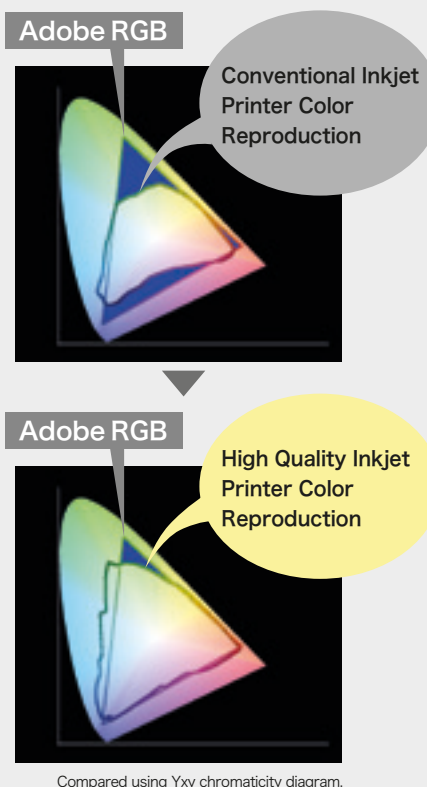

Did you know? 💡

Why a printer that supports color management is important

It can faithfully print Adobe RGB or sRGB images.

Adobe RGB is a wide color space that captures more vivid colors in images. If you use a conventional printer with a narrow color space, some of the brilliant blues and greens in your photos will be lost in the printing process. By using a high-quality printer, color reproduction is greatly improved so you can achieve prints that match your screen.

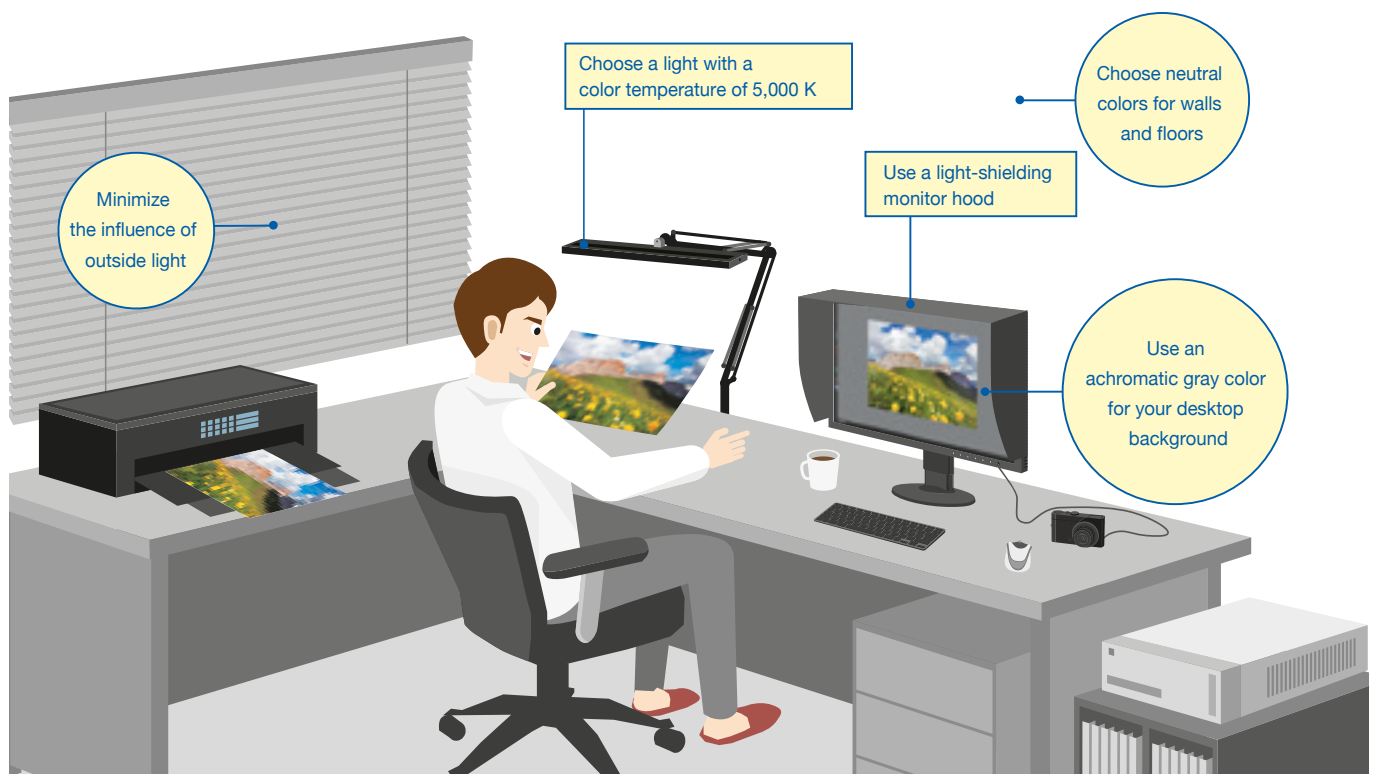### Consistent Color After Printing

Using a color printer with quickly drying ink ensures that colors are consistent. This makes it easier to check your work right after printing.

Adobe RGB

Conventional Inkjet Printer Color Reproduction

Adobe RGB

High Quality Inkjet Printer Color Reproduction

Compared using Yxy chromaticity diagram.

Preparation for Color Matching

In order to check that your photos are printed with the correct colors, you need to view the prints under a light source with a 5,000 K color temperature.

Lighting

Minimize the influence of outside light

Choose a light with a color temperature of 5,000 K

Choose neutral colors for walls and floors

Use a light-shielding monitor hood

Use an achromatic gray color for your desktop background

Did you know?

Printed photos reflect the light around them and travel to the human eye where they are recognized as an image.
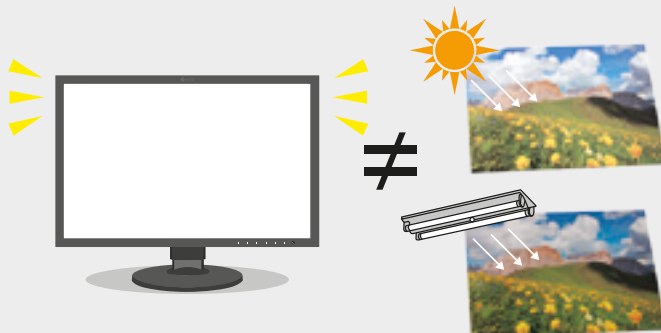
Due to this, when viewing objects in outside light during the day and indoor lighting in the evening, the color of the light changes.

Monitors emit light from their backlights so even if the ambient lighting conditions change, the colors you see on the screen will have little variance. This is why comparing your photo prints to the screen under varying ambient lighting conditions may cause the colors to look different.

Choosing Appropriate Lighting

The appropriate viewing environment can be achieved by using a color temperature that is close to "sunlight" (5,000 K). This value is based on the human sense of color.
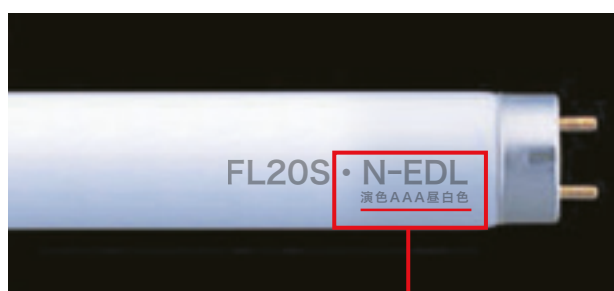
Bulbs that meet the color temperature standard of 5,000 K can be found through general electronic retailers. Below is EIZO's recommendation.

N-EDL… AAA Day white color rendering (Ra: 90-99)*

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*Color rendering index (Ra) refers to a quantitative measure of the ability for a fluorescent light to reproduce the colors we see in natural light.

Prevent Glare with a Light-Shielding Hood

When comparing prints to your screen, glare on the monitor due to ambient lighting can cause colors to appear differently.

If you use a light-shielding monitor hood, you can prevent glare and reflections on the screen to carry out color matching more accurately.

EIZO Monitor Hoods

Software Installation

1 Connecting the Monitor

While referring to your monitor's setup guide, follow these steps.

❶ Connect your ColorEdge monitor to your computer using the signal cable.
❷ Connect your ColorEdge monitor and the computer to the power using the power cables.
❸ Connect your ColorEdge monitor to the computer using the USB cable.

Signal Cable

USB Cable

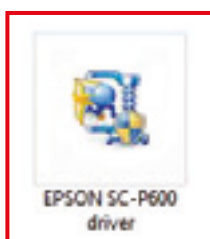Confirm the correct end is used.

PC Inputs

ColorEdge Inputs (varies by model)
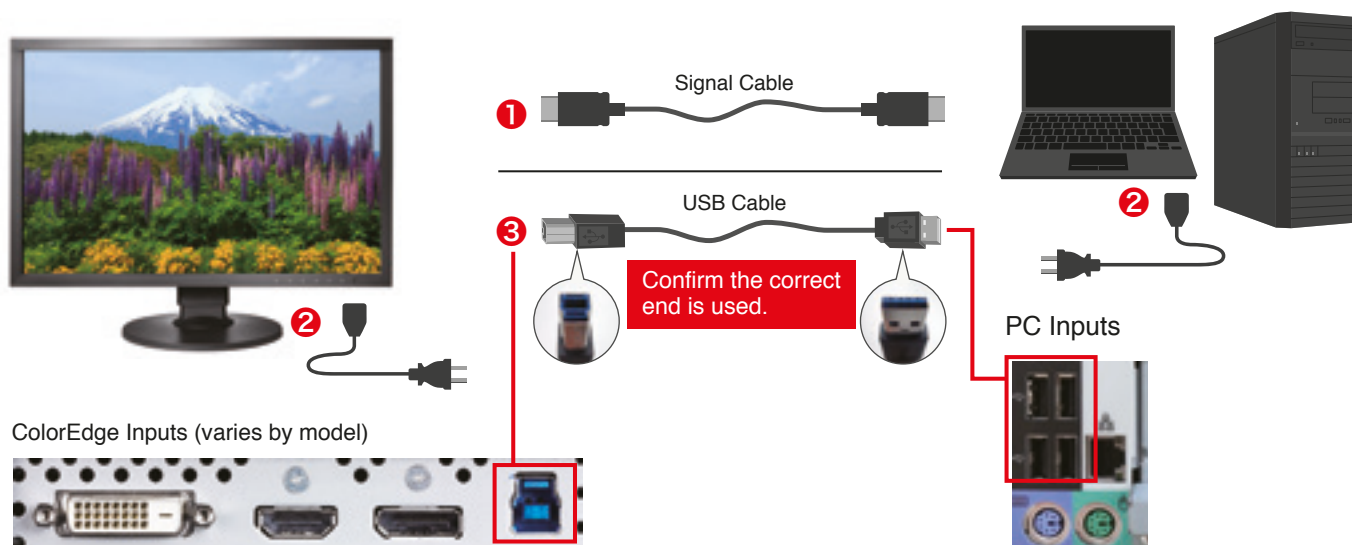
2 Printer Driver Installation

For Windows

Insert the utility disc that came with your printer or download the appropriate drivers from the manufacturer's website.

Double click on the DVD drive or installation file you downloaded.

p86l-win-pro_10-1_04-eju.exe

EPSON SC-P600 driver
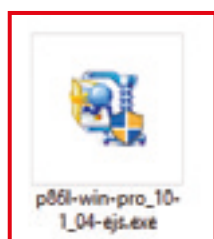
Canon   Epson

For Mac

Download the appropriate drivers for your printer from the manufacturer's website.

Double click the installation file you downloaded.

PrinterDriver_PRO-10 series_120500.pkg

EPSON SC-P600 driver.pkg

Canon   Epson

Follow the instructions on your screen to carry out installation.

For Canon Printers

When the installation window appears, click
Next. Select how you will connect to the printer
(Network or USB) and click **Next** again.
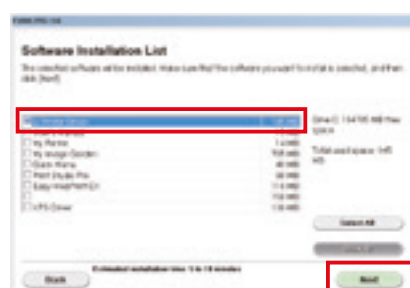
From the list, check IJ Printer Driver
and click **Next**.

Continue to click **OK** and **Next** until you reach
the end of the installation process.
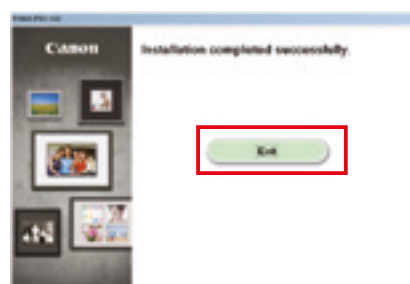
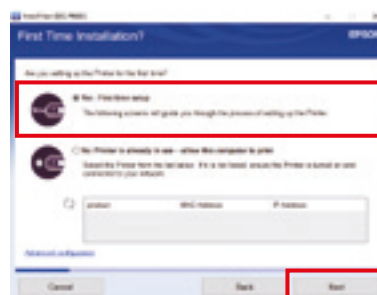When the installation is complete, click **Exit**.

For Epson Printers

When the installation window appears, click
Start & Connection.

Check the box to agree to the terms of
the license and click **Next**.

Select **First time setup** and click **Next** and **OK.**

Select how you will connect to the printer (Wifi,
Ethernet, or USB) and click **Next.** When the
installation is complete, click **Finish**.

Software Installation

3 Print Plugin Installation

For Canon Printers

<div>Canon Print Studio Pro Ver. 2.2.0</div>
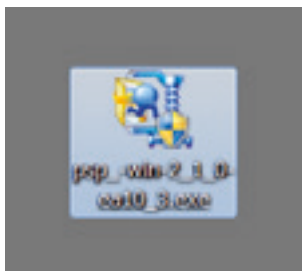
Double click the print plugin installation file to begin.

Proceed with the installation by clicking **Next** and **Yes**.
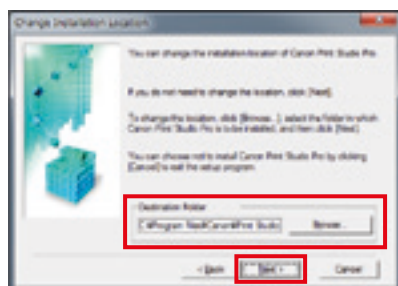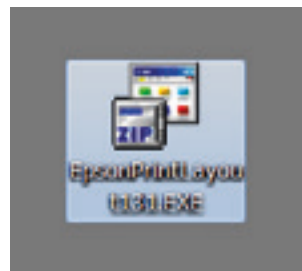

Confirm the installation location and click on **Next** and **Yes**.
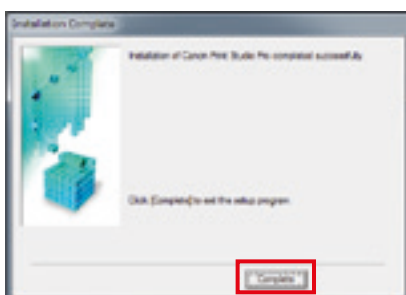
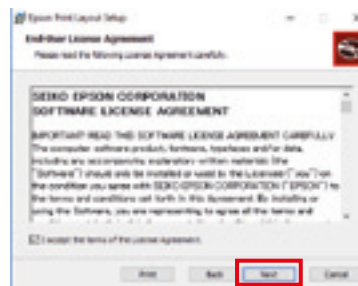Click **Complete** to finish the installation.

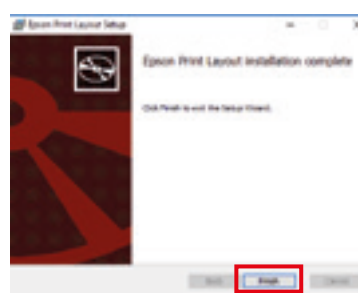### For Epson Printers

<div>Epson Print Layout Ver. 1.3.5</div>

Double click the print plugin installation file to begin.

Proceed with the installation by clicking **Next**.

Check the box to agree to the terms of the license and click **Next**.

Click **Finish** to complete the installation.

4 Quick Color Match Installation Guide

Download Quick Color Match for free by visiting:
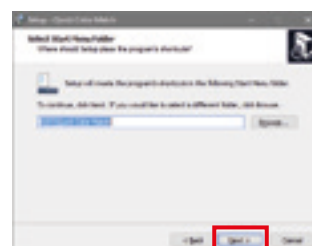
www.eizoglobal.com/i/download/qcm

For Windows

1
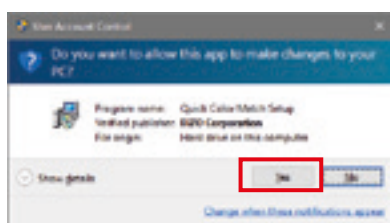
Double click the Quick Color Match installation file to begin. Click **Yes** to allow the installation to continue (Windows).
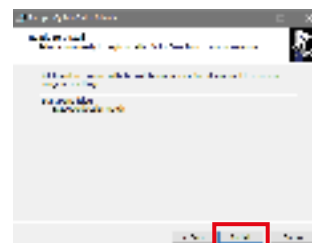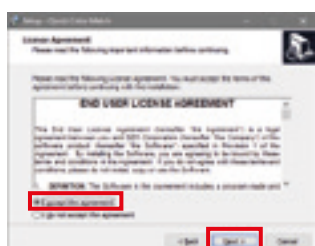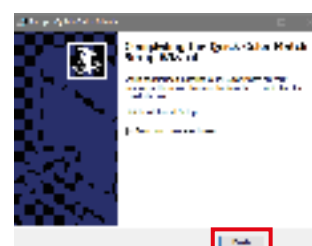
2

Proceed with the installation by clicking **Next**.

3

Check the box to agree to the terms of the license and click **Next**.

4

Confirm the installation location and click **Next.** Click **Next** again in the next window.

5

Finally, click **Install**.

6

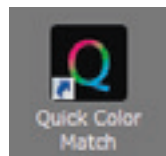Click **Finish** to complete the installation.

Using Quick Color Match

This guide explains how to use Quick Color Match software with Photoshop CC / CS6.

For Windows

1

Double click the Quick Color Match icon on your desktop.
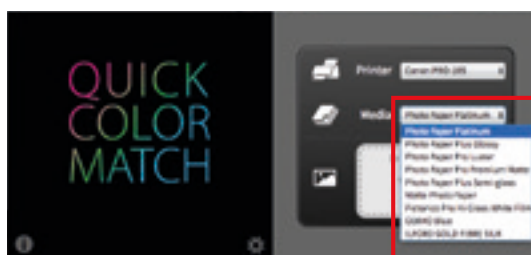
2

The Quick Color Match menu will appear. Confirm that the printer you will use is selected.

3

Select the paper type you will use from the list of media supported by Quick Color Match.

4

Drag and drop the image you want to print onto the Quick Color Match menu. Supported file formats are JPEG, TIFF, and PSD. Be sure to process RAW data files beforehand.

5

Settings in Photoshop will automatically be adjusted to the ideal settings and the color matched image will be displayed on your screen.

If you need to further edit your photo, continue to retouch in the Photoshop window.

■ **See the Quick Color Match user's manual for using other software applications.**
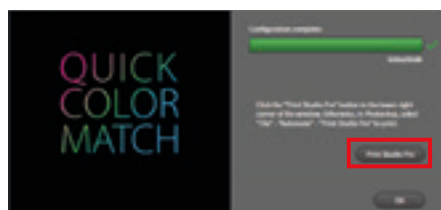   **www.eizoglobal.com/i/qcm-manual/**

⚠️ Quick Color Match saves adjustment results under your ColorEdge monitor's Custom preset. This setting will display the correct colors on your screen so do not change modes.
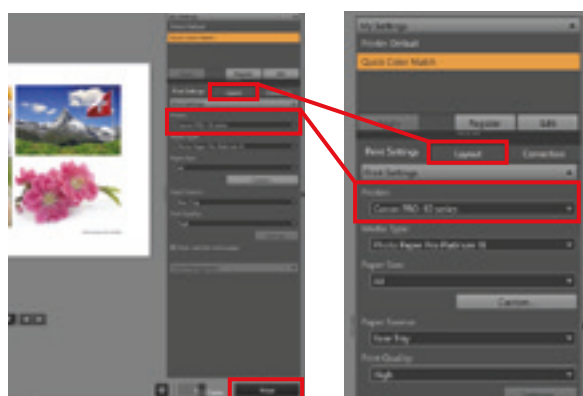
Do not change modes!

6

To print, click on the button with the name of your print plugin software in the lower right corner of the Quick Color Match window.
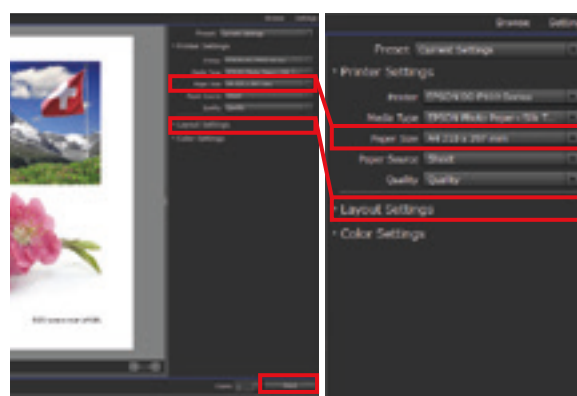

For Canon Printers

Using Print Studio Pro Plugin

Choose the paper size and layout, then click **Print**.

For Epson Printers

Using Epson Print Layout Plugin

Choose the paper size and layout, then click **Print**.

\ *Quick Point!* /

Quick Color Match automatically adjusts the printer to the ideal color settings so you do not need to make any changes. Now you can print your photo without worrying about navigating through several windows of technical settings and options.

Color Matching Complete!

Great

Confirm that your photo matches your screen by viewing it under a 5000 K light source. Now enjoy printing even more photos with confidence!

Further increase your matching precision

ColorNavigator 7 is EIZO's own color management software for producing predictable color results. It allows you to carry out calibration with your ColorEdge monitor's built-in sensor or the optional EX3 external sensor and manage advanced user-desired target values for further improving color matching.

ColorNavigator 7

Calibration Sensor
EX3

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