Fiery Command WorkStation 6 FS200 Color Settings

How to use this document
This tool replaces the legacy Fiery® color flow chart illustration. It is intended to show users the detailed color processing path on the Fiery server. The tool is delivered as a video presentation, click here to access the video.
See the next page for the recommended Fiery color settings. This page describes the basics of accessing the expert settings along with some key concepts related to digital front end (DFE) color management.

Managing various color spaces
Users are able to send jobs to the Fiery server containing a variety of color spaces. The Fiery server processes each of the many color types for precise color output and consistency. Fiery servers offer advanced color management capabilities that provide users with greater color control. The expert features and options allow users to customize workflows to deliver accurate color every time.

This document provides examples of the impact of various color management settings to help guide you to configuring the Fiery server for the best color result. Although not every possible combination of options is presented, enough information is provided to ensure that you can make the correct decisions when setting up your workflows and output devices.

In a traditional print environment, CMYK workflows were often preferred. Fiery servers’ color technology allow the flexibility to work in a variety of color spaces like CMYK, RGB, device independent color spaces, and custom spot colors without having to modify the native content to be compatible with a traditional print workflow.

How do I know what color space I am using?
As content is designed in a native application, this provides the first source of information on the color type. Business applications typically use RGB while graphics applications can draw with CMYK, RGB and custom spot colors. Digital cameras capture images in RGB, and corporate logos are often created using spot colors from industry standard color libraries. If you do not have access to the native content, the Fiery server has utilities in the Graphic Arts Package, Premium Edition (or Productivity Package) that can help you identify documents’ color content.

Print Gray Using Black Only
Color management is designed to convert color from a source device to a destination device and closely maintain the color appearance between these different devices. For example, printing a RGB photograph from a digital camera to a printer using CMYK. A side effect of this design is converting pure colors like Black and Gray into the print system’s CMYK. This can affect the neutral appearance of gray and add unwanted color clicks to the print job. Fiery servers’ Gray and Black processing eliminate this problem by preserving the source Black and Gray colors to print with only the print system’s black toner, saving the color click charge.
Fiery Command WorkStation 6 FS200 Color Settings

Color mode

RGB

CMYK/Grayscale

Spot Color

Source profile

RGB rendering intent / CMYK processing method

Print gray using black only

Black point compensation

Separate RGB/Lab to CMYK source

Black text and graphics

Composite overprint

Optimize RGB transparency

Output profile & calibration
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- CMYK
- Grayscale

**Output profile**
- Use media defined profile

**Color input**
- RGB source: SRGB (PC)
- CMYK source: ISO Coated FOGRA39 (v1)
- Separate RGB/Lab to CMYK source
- Print CMYK gray using black only:

**Color settings**
- PDF/X output intent
- Black text and graphics
- Composite overprint
- Optimize RGB transparency
- Optimize RGB transparency

**Source profile**
- RGB rendering intent / CMYK processing method
  - Print gray using black only
  - Black point compensation
  - Separate RGB/Lab to CMYK source

**Output profile & calibration**
- Optimize RGB transparency
- Composite overprint
- Optimize RGB transparency

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Fiery Command WorkStation 6 FS200 Color Settings

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</tbody>
</table>

- Use media defined profile
Automated output profile selection on the Fiery server

This diagram demonstrates how the automated output profile selection works on the Fiery server. First, look at the Job Properties within Fiery Command WorkStation and check to see if “Use Media Defined Profile” is selected for the job. Follow the chart below to see how the output profile selection is determined.

Fiery server output profile selection

Start

Job Properties “Use Media Defined Profile” selected?

Is Paper Catalog used in the job?

Is a Profile assigned to the paper type?

Profile assigned in Paper Catalog?

Output profile selected in Job properties

Color settings default profile

Output profile assigned to paper type

Output profile assigned in Paper catalog
### Fiery Command WorkStation 6 FS200 Color Settings

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<tbody>
<tr>
<td><strong>Source profile</strong></td>
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<td>Use media defined profile</td>
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</table>

- **Color mode**: Select the color mode for the job, either CMYK or Grayscale.
- **Source profile**: Choose the profile for the source data, in this case, sRGB.
- **RGB rendering intent**: Select the rendering intent for RGB data.
- **CMYK processing method**: Choose the CMYK processing method, such as GRACoL 2006 Embedded.
- **Print gray using black only**: Opt to print grayscale using black only.
- **Black point compensation**: Enable black point compensation for accurate grayscale rendering.
- **Separate RGB/Lab to CMYK source**: Separate RGB/Lab data from CMYK data, if needed.
- **Black text and graphics**: Optimize black text and graphics for print quality.
- **Composite overprint**: Optimize composite overprint settings.
- **Optimize RGB transparency**: Select transparency optimization options.
- **Output profile & calibration**: Use the media defined profile for output calibration.

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### Fiery Command WorkStation 6 FS200 Color Settings

#### Color mode

- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

#### Source profile
- **sRGB**
- **ISO Coated FOGRA39L**

#### RGB rendering intent / CMYK processing method
- **Black point compensation**
- **Separate RGB/Lab to CMYK source**
- **Black text and graphics**
- **Composite overprint**

#### Output profile & calibration
- **Use media defined profile**

---

**Example Settings**

- **Output profile & calibration**: Use media defined profile
- **Source profile**: ISO Coated FOGRA39L
- **RGB rendering intent / CMYK processing method**: Black point compensation, Separate RGB/Lab to CMYK source, Black text and graphics, Composite overprint

---

**Fiery Command WorkStation 6 FS200**

**Job Properties**

- Adobe PDF Print Engine Preferred
- RGB source: sRGB (IC)
- CMYK source: ISO Coated FOGRA39L (E77)
- Use embedded profile
- CMYK processing method: Full (Output CCR)
- Print gray using black only
- Use media defined profile
- ISO Coated FOGRA39L

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**EFS**

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Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- RGB (Adobe RGB Embedded)
- CMYK/Grayscale (GRACoL 2006 Embedded)
- Spot Color

**Source profile**
- Adobe RGB

**RGB rendering intent**
- CMYK processing method

**Print gray using black only**

**Black point compensation**

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- Use media defined profile
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**

- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)
- **Spot Color**

**Source profile**

- Adobe RGB
- GRACoL 2006

**RGB rendering intent / CMYK processing method**

- Print gray using black only
- Black point compensation
- Separate RGB/Lab to CMYK source
- Black text and graphics
- Composite overprint

**Optimize RGB transparency**

- Use media defined profile

**Output profile & calibration**

- Use media defined profile
Fiery Command WorkStation 6 FS200 Color Settings

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Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

**Source profile**
- Adobe RGB
- ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**
- **Photographic**

**Print gray using black only**

**Black point compensation**

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- Use media defined profile
# Fiery Command WorkStation 6 FS200 Color Settings

## Color mode

### RGB (Adobe RGB Embedded)
- Adobe RGB

### CMYK/Grayscale (GRACoL 2006 Embedded)
- ISO Coated FOGRA39L

### Spot Color

## Source profile

- Adobe RGB

## RGB rendering intent / CMYK processing method
- Photographic

## Print gray using black only

## Black point compensation

## Separate RGB/Lab to CMYK source

## Black text and graphics

## Composite overprint

## Optimize RGB transparency

## Output profile & calibration
- Use media defined profile
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### Output profile & calibration

- Use media defined profile
- ISO Coated FOGRA39L
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- RGB (Adobe RGB Embedded)
- CMYK/Grayscale (GRACoL 2006 Embedded)

**Source profile**
- Adobe RGB
- ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**
- Photographic

**Print gray using black only**

**Black point compensation**

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- Use media defined profile
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)
- **Spot Color**

**Source profile**
- **RGB**: Adobe RGB
- **CMYK/Grayscale**: ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**
- **Photographic**
- **Full (Output GCR) – Relative Colorimetric**

**Print gray using black only**

**Black point compensation**

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- **Use media defined profile**
Fiery Command WorkStation 6 FS200 Color Settings

Color mode
- RGB (Adobe RGB Embedded)
- CMYK/Grayscale (GRACoL 2006 Embedded)
- Spot Color

Source profile
- Adobe RGB
- ISO Coated FOGRA39

RGB rendering intent
- Photographic
- Full (Output GCR) – Relative Colorimetric

CMYK processing method
- Black point compensation
- Separate RGB/Lab to CMYK source
- Black text and graphics
- Composite overprint

Print gray using black only
- K only output for RGB text/graphics R = G = B

Color settings
- Output profile & calibration
- Use media defined profile
- ISO Coated
- CMYK/Grayscale
- Spot Color

K only output for RGB text/graphics R = G = B
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- RGB (Adobe RGB Embedded)
- CMYK/Grayscale (GRACoL 2006 Embedded)

**Source profile**
- Adobe RGB
- ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**
- Photographic
- Full (Output GCR) – Relative Colorimetric

**Print gray using black only**
- K only output for RGB text/graphics
  - R = G = B
- K only output for CMYK text/graphics/images
  - C,M,Y = 0% K = x%

**Black point compensation**
- K only output for CMYK text/graphics/images
- C,M,Y = 0% K = x%

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- Use media defined profile

**Spot Color**
### Fiery Command WorkStation 6 FS200 Color Settings

#### Color mode
- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

#### Source profile
- **Adobe RGB**
- **ISO Coated FOGRA39L**

#### RGB rendering intent / CMYK processing method
- **Photographic**
- **Full (Output GCR) – Relative Colorimetric**

#### Print gray using black only
- K only output for RGB text/graphics
  - \( R = G = B \)
- K only output for CMYK text/graphics/images
  - \( C, M, Y = 0\% \) \( K = x\% \)

#### Black point compensation
- **✓** (RGB)
- **✓** (CMYK/Grayscale)

#### Separate RGB/Lab to CMYK source

#### Black text and graphics

#### Composite overprint

#### Optimize RGB transparency

#### Output profile & calibration
- **Use media defined profile**
### Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**

- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

**Source profile**

- Adobe RGB
- ICC from PDF/X output intent

**RGB rendering intent / CMYK processing method**

- Photographic
- Full (Output GCR) – Relative Colorimetric

**Print gray using black only**

- K only output for RGB text/graphics: R = G = B
- K only output for CMYK text/graphics/images: C,M,Y = 0% K = x%

**Black point compensation**

- ✓

**Separate RGB/Lab to CMYK source**

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**

- Use media defined profile

---

**Fiery spot color table** (linked to output profile)
## Fiery Command WorkStation 6 FS200 Color Settings

### Color mode
- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

### Source profile
- **Adobe RGB**
- **ISO Coated FOGRA39L**

### RGB rendering intent / CMYK processing method
- **Photographic**
- **Full (Output GCR) – Relative Colorimetric**

### Print gray using black only
- **K only output for RGB text/graphics**
  - R = G = B
- **K only output for CMYK text/graphics/images**
  - C,M,Y = 0% K = x%

### Black point compensation
- **Yes**

### Separate RGB/Lab to CMYK source

### Black text and graphics

### Composite overprint

### Optimize RGB transparency

### Output profile & calibration
- **Use media defined profile**
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**
- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

**Source profile**
- Adobe RGB
- ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**
- Photographic
- Full (Output GCR) – Relative Colorimetric

**Print gray using black only**
- K only output for RGB text/graphics
  - R = G = B
- K only output for CMYK text/graphics/images
  - C,M,Y= 0% K= x%

**Black point compensation**
- Yes

**Separate RGB/Lab to CMYK source**
- Convert RGB to default CMYK input profile then to output profile

**Black text and graphics**

**Composite overprint**

**Optimize RGB transparency**

**Output profile & calibration**
- Use media defined profile

**Fiery spot color table (linked to output profile)**

---

Fiery Command WorkStation 6 FS200 Color Settings

- **Job Properties**
  - Input profile:
    - Use media defined profile
  - Calibration:
    - Color Gamut Realization

- **Color mode**
  - RGB (Adobe RGB Embedded)
  - CMYK (ISO Coated FOGRA39L)

- **Color settings**
  - PDF/X output intent
  - Black text and graphics
    - Pure Black On
  - Composite overprint
    - Use media defined profile
# Fiery Command WorkStation 6 FS200 Color Settings

## Color mode

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<td><strong>Photographic</strong></td>
</tr>
<tr>
<td><strong>Print gray using black only</strong></td>
<td><strong>K only output for CMYK text/images C,M,Y = 0% K=x%</strong></td>
</tr>
<tr>
<td><strong>Black point compensation</strong></td>
<td><img src="checkmark" alt=" " /> <img src="checkmark" alt=" " /></td>
</tr>
<tr>
<td><strong>Separate RGB/Lab to CMYK source</strong></td>
<td></td>
</tr>
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<tr>
<td><strong>Optimize RGB transparency</strong></td>
<td></td>
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</tbody>
</table>

## Output profile & calibration

- **Use media defined profile**

---

### Color settings

- **PDF/X output intent**
- **Black text and graphics**
  - Pure Black On
- **Composite overprint**
  - Black overprint (for pure black)
  - Text/Graphics
- **Substitute colors**
- **Auto trapping**
- **Image Viewer curves**
  - No correction
Fiery Command WorkStation 6 FS200 Color Settings

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</tr>
<tr>
<td>Black point compensation</td>
<td>✓</td>
<td>✓</td>
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<td>Black text and graphics</td>
<td>R,G,B = 0 prints as K only</td>
<td>100% K prints as K only</td>
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<td>Use media defined profile</td>
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### Fiery Command WorkStation 6 FS200 Color Settings

#### RGB (Adobe RGB Embedded)

- **Source profile:** Adobe RGB
- **R, G, B = 0**
- **Prints as K only**

#### CMYK/Grayscale (GRACoL 2006 Embedded)

- **Source profile:** ISO Coated FOGRA39L
- **K only output for CMYK text/graphics/images**
- **C,M,Y= 0% K= x%**

- **Black point compensation:**
  - Full (Output GCR)
  - Relative Colorimetric

- **Print gray using black only:**
  - K only output for RGB text/graphics
  - R = G = B

- **Composite overprint:**
  - 100% K prints as K only

#### Spot Color

- **Fiery spot color table** (linked to output profile)
- **K only output for RGB text/graphics**
- **R,G,B = 0**
- **prints as K only**

- **Optimize RGB transparency**
- **Output profile & calibration**
  - Use media defined profile
  - ISO Coated
  - FOGRA39L

---

**Note:** The diagram and text provide a detailed overview of the color settings options available in the Fiery Command WorkStation 6 FS200. Each setting is designed to provide control over the color output, ensuring consistent and high-quality results.
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**

- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

**Source profile**

- **RGB**
  - Adobe RGB
- **CMYK**
  - ISO Coated FOGRA39L

**RGB rendering intent**

- Photographic

**CMYK processing method**

- Full (Output GCR) – Relative Colorimetric

**Print gray using black only**

- K only output for RGB text/graphics: \( R = G = B \)
- K only output for CMYK text/graphics/images: \( C,M,Y= 0\% \ K= x\% \)

**Black point compensation**

- \( \checkmark \)

**Separate RGB/Lab to CMYK source**

- R,G,B = 0 prints as K only & Overprints (text)
- 100% K prints as K only & Overprints (text)

**Composite overprint**

- \( \checkmark \)

**Optimize RGB transparency**

- \( \checkmark \)

**Output profile & calibration**

- Use media defined profile
Fiery Command WorkStation 6 FS200 Color Settings

<table>
<thead>
<tr>
<th>Color mode</th>
<th>RGB (Adobe RGB Embedded)</th>
<th>CMYK/Grayscale (GRACoL 2006 Embedded)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source profile</strong></td>
<td>Adobe RGB</td>
<td>ISO Coated FOGRA39L</td>
</tr>
<tr>
<td><strong>RGB rendering intent</strong></td>
<td>Photographic</td>
<td>Full (Output GCR) – Relative Colorimetric</td>
</tr>
<tr>
<td><strong>CMYK processing method</strong></td>
<td>Black point compensation</td>
<td>K only output for CMYK text/graphics/images C,M,Y= 0% K= x%</td>
</tr>
<tr>
<td><strong>Print gray using black only</strong></td>
<td>R, G = 0 prints as K only &amp; Overprints (text)</td>
<td>100% K prints as K only &amp; Overprints (text)</td>
</tr>
<tr>
<td><strong>Black point compensation</strong></td>
<td>[✓]</td>
<td>[✓]</td>
</tr>
<tr>
<td><strong>Separate RGB/Lab to CMYK source</strong></td>
<td>R, G, B = 0 prints as K only &amp; Overprints (text)</td>
<td></td>
</tr>
<tr>
<td><strong>Black text and graphics</strong></td>
<td>[✓]</td>
<td></td>
</tr>
<tr>
<td><strong>Composite overprint</strong></td>
<td>[✓]</td>
<td></td>
</tr>
<tr>
<td><strong>Optimize RGB transparency</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Output profile & calibration**
- Use media defined profile
Fiery Command WorkStation 6 FS200 Color Settings

**Color mode**

- **RGB** (Adobe RGB Embedded)
- **CMYK/Grayscale** (GRACoL 2006 Embedded)

**Source profile**

- Adobe RGB
- ISO Coated FOGRA39L

**RGB rendering intent / CMYK processing method**

- Photographic
- Full (Output GCR) – Relative Colorimetric

**Print gray using black only**

- K only output for RGB text/graphics: \( R = G = B \)
- K only output for CMYK text/text/graphics/images: \( C,M,Y = 0\% \) \( K = x\% \)

**Black point compensation**

- ✔
- ✔

**Separate RGB/Lab to CMYK source**

- R,G,B = 0 prints as K only & Overprints (text)
- 100% K prints as K only & Overprints (text)

**Black text and graphics**

- R,G,B = 0 prints as K only & Overprints (text)

**Composite overprint**

- ✔

**Optimize RGB transparency**

- ✔

**Output profile & calibration**

- Use media defined profile

---

Fiery spot color table (linked to output profile)
2-color print mapping – Allows operators to replace the black and a specific color of a two-color job with the required spot colors, without modifying the original job. Ensures accurate spot color matching from Fiery Spot-On when printing the final spot colors.
Substitute colors – Allows specific RGB or CMYK color tints in source documents to be mapped to specific CMYK tints on printed output.
Combine separations – Combines preseparated PostScript files so that each page prints as one composite CMYK page rather than four separations.
**Auto trapping** – Operators can achieve professional-level results without the tools and knowledge required for conventional trapping. The feature automatically traps adjacent color objects by spreading the lighter color at each boundary into the darker color adjacent to it. Trapping is used so that the paper white gap is not seen between adjacent color objects if there is slight misregistration on press.
ImageViewer curves – Enables users to apply color curves on a per job or per workflow basis. Factory defaults are provided for common adjustments such as midtone boost, and reduce color cast. Customers with Graphic Arts Package, Premium Edition can create custom curves in Fiery ImageViewer that can be selected in Job Properties via ImageViewer curves control.
### Fiery Command WorkStation 6 FS200 Color Settings – Best Practice Settings

**Job Properties**

<table>
<thead>
<tr>
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<th>RGB (Adobe RGB Embedded)</th>
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<tbody>
<tr>
<td>Source profile</td>
<td>Adobe RGB</td>
<td>GRACoL 2006</td>
</tr>
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<td>RGB rendering intent / CMYK processing method</td>
<td>Photographic</td>
<td>Full (Output GCR) – Relative Colorimetric</td>
</tr>
<tr>
<td>Print gray using black only</td>
<td>K only output for RGB text/graphics $R = G = B$</td>
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</tr>
<tr>
<td>Black point compensation</td>
<td>✓</td>
<td>✓</td>
</tr>
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<td>Separate RGB/Lab to CMYK source</td>
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</tr>
<tr>
<td>Black text and graphics</td>
<td>□ Use media defined profile</td>
<td>Use media defined profile</td>
</tr>
<tr>
<td>Composite overprint</td>
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<td>✓</td>
</tr>
<tr>
<td>Optimize RGB transparency</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Color settings**

- **Output profile & calibration**
  - Use media defined profile

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**Fiery spot color table (linked to output profile)**