UJF-7151 plusII / UJF-7151 plusII e / UJF-3042MkII e / UJF-3042MkII EX e / UJF-6042MkII e / JFX200-1213EX / JFX200-2513EX / JFX220-2515

High-speed Braille Print Guide

This guide shows you how to print braille in high speed or standard mode with the UJF-7151 plusII / UJF-7151 plusII e / UJF-3042MkII e / UJF-3042MkII EX e / UJF-6042MkII e / JFX200-1213EX / JFX200-2513EX.
Read this guide thoroughly before use.

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Notations used in this document

- Items and buttons displayed in menus and on screens are marked with square brackets ([ ]) as in [File].
- RasterLink7 and RasterLink8 are referred to as RasterLink in together.

Symbols

Important!	• This symbol indicates important information for using this product.
	• This symbol indicates useful information.

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Printer Environment

UJF-3042MkII e / UJF-6042MkII e

Inkt	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
LH-100 LUS-120	Ver.3.2.0 or later / Ver.5.9.0 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	Ver.1.16.0 or later
ELH-100	Ver.3.3.2.1 or later / Ver.5.9.14 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	
ELS-120	Ver.3.3.4 or later / Ver.5.9.19 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	

UJF-7151plusII

Inkt	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
LH-100 LUS-120	Ver.3.2.0 or later / Ver.5.9.0 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	Ver.1.16.0 or later
ELH-100	Ver.3.3.2.1 or later / Ver.5.9.14 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	
ELS-120	Ver.4.0.2 or later / Ver.5.10.4 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	

JFX200-1213EX

Inkt	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
LH-100 LUS-120	Ver.3.3.0 or later / Ver.5.9.7 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	Ver.1.16.0 or later
ELH-100	Ver.3.3.3 or later / Ver.5.9.17 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	
ELS-120	Ver.4.1.0 or later / Ver.5.11.0 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	

JFX200-2513EX

Ink	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
LH-100 LUS-120	Ver.3.3.3 or later / Ver.5.9.16 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	Ver.1.16.0 or later
ELH-100	Ver.3.3.3 or later / Ver.5.9.17 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	
ELS-120	Ver.4.1.0 or later / Ver.5.11.0 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	

UJF-7151plusIIe

Ink	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
LH-100 LUS-120	Ver.4.0.0 or later / Ver.5.10.1 or later	Ver.1.0.0 or later / Ver.5.13.0 or later	Ver.1.21.0 or later
ELH-100			
ELS-120			

JFX220-2515

Ink	RasterLink7/Mimaki Driver	RasterLink8/Mimaki Driver	RasterLinkTools
ELS-120	-	Ver.1.0.0 or later / Ver.5.13.1 or later	Ver.1.21.0 or later

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About Braille Printing

RasterLink offers the following three different braille printing modes:
• Standard mode
• High-speed mode
• Compliant mode

Important!
- The braille printing modes available will vary depending on the model and ink set. (Refer to P.5 “Target Environment”)
- Only one printing mode can be used for printing a single image.
- [Compliant Mode] is a mode in which JIS and ADA compliant braille can be created. Please refer to the separate "Braille Printing Guide" for more information on this mode.

Printing Braille with Specified Lamination Conditions (Standard Mode, High-Speed Mode)

● Explanation of Modes

■ Standard mode

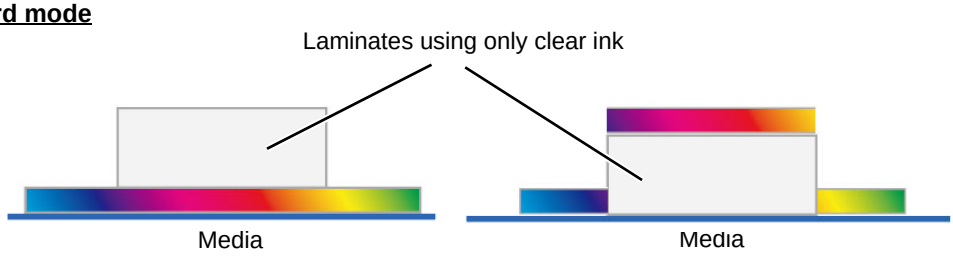
Prints braille using clear ink.
Allows parameters such as height and overlay order with color images to be specified.

■ High-speed mode

Prints braille using a mixture of multiple inks.
•Basic prints braille using a mixture of CMYK ink.
• In UJF-7151plusII, UJF-7151 plusII e, JFX200-1213EX and JFX200-2513EX, Braille is printed by mixing special colors in addition to CMYK ink.
For more details, please see below.
P.7 “UJF-7151 plusII ,UJF-7151 plusII e”
P.8 “JFX200-1213EX, JFX200-2513EX”

● Differences between Standard Mode and High-Speed Mode

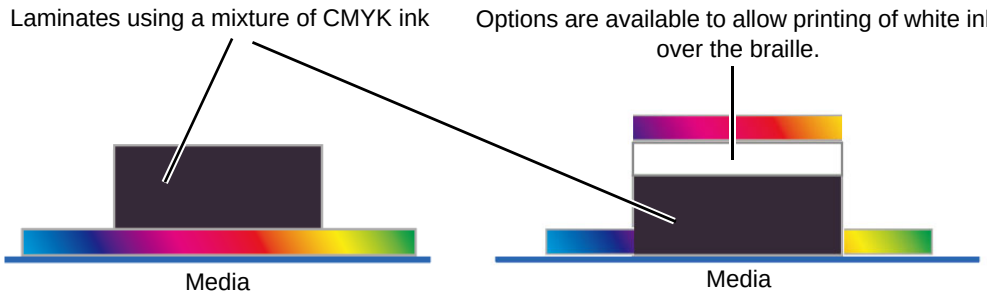
Standard mode



Braille printed over color image　　Color image printed over braille

•Clear ink is laminated to the specified height for the braille.
•The settings can be altered to vary color image and braille printing order.

High-speed mode



Braille printed over color image　　Color image printed over braille

•A mixture of CMYK ink is laminated to the specified height for the braille.
•The settings can be altered to vary color image and braille printing order.
•Option settings are available to allow white ink to be printed to cover the braille.

Target Environment

✔ symbol in the table below indicates the mode is compatible.

● UJF-3042MKII e

■ Ink sets and supported braille modes

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYK ELH-100 CMYK	WW		✔
	WCI	✔	✔
	WP		✔
	CIP	✔	✔
LUS-120 CMYK ELS-120 CMYK	WW		✔
	WCI	✔	✔
	WP		✔
	CIP	✔	✔
LUS-150 CMYK	-	Not supported	
LUS-200 CMYK	-	Not supported	

■ Print conditions

In RasterLink, device profiles with the following conditions should be installed for each ink set.



• When a job is created, output settings are automatically applied to braille jobs.

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	1200 x 1200 VD	600 x 1200 VD
No. of passes	16 passes	16 passes

● UJF-6042MKII e / UJF-3042MkII EX e

■ Ink sets and supported braille modes

4 Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYK ELH-100 CMYK	CIPWW	✔	✔
LUS-120 CMYK ELS-120 CMYK	CIPWW	✔	✔
LUS-150 CMYK	-	Not supported	
LUS-200 CMYK	-	Not supported	

6 Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYKLcLm ELH-100 CMYKLcLm	WW		✔
	WCI	✔	✔
	WP		✔
	CIP	✔	✔
LUS-120 CMYKLcLm ELS-120 CMYKLcLm	WW		✔
	WCI	✔	✔
	WP		✔
	CIP	✔	✔
LUS-150 CMYKLcLm	-	Not supported	
LUS-200 CMYKLcLm	-	Not supported	

■ Print conditions

In RasterLink, device profiles with the following conditions should be installed for each ink set.



- When a job is created, output settings are automatically applied to braille jobs.

4 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	1200 x 1200 VD	600 x 1200 VD
No. of passes	16 passes	16 passes

6 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	1200 x 1200 VD	600 x 1200 VD
No. of passes	16 passes	16 passes

● UJF-7151 plusII ,UJF-7151 plusII e

■ Ink sets and supported braille modes

4 Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYK ELH-100 CMYK	CIPWW	✔	✔ *1
LUS-120 CMYK ELS-120 CMYK	CIPWW	✔	✔ *1
LUS-350 CMYK	-	Not supported	

*1 : Braille is printed in CMYK + clear mixed colors.

6 Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYKLcLm ELH-100 CMYKLcLm	WW		✔ *2
	WCI	✔	✔ *1
	WP		✔ *2
	CIP	✔	✔ *1
	CISi	✔	✔ *1
	WSi		✔ *2
LUS-120 CMYKLcLm ELS-120 CMYKLcLm	WW		✔ *2
	WCI	✔	✔ *1
	WP		✔ *2
	CIP	✔	✔ *1
LUS-350 CMYKLcLm	-	Not supported	

*1 : Braille is printed in CMYK + clear mixed colors.
*2 : Braille is printed in CMYK + white mixed colors.

■ Print conditions

In RasterLink, device profiles with the following conditions should be installed for each ink set.



• When a job is created, output settings are automatically applied to braille jobs.

4 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	600 x 900 VD	600 x 900 VD
No. of passes	16 passes	12 passes

6 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	600 x 900 VD	600 x 900 VD
No. of passes	16 passes	12 passes

● JFX200-1213EX, JFX200-2513EX

■ Ink sets and supported braille modes

4Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYK ELH-100 CMYK	ClClWW	✔	✔ *1
	ClPWW	✔	✔ *1
	WWWW		✔ *1
LUS-120 CMYK ELS-120 CMYK	ClClWW	✔	✔ *1
	ClPWW	✔	✔ *1
	WWWW		✔ *1
LUS-150 CMYK	ClClWW	Not supported	
	ClPWW	Not supported	
	WWWW	Not supported	
LUS-211 CMYK	ClClWW	Not supported	
	WWWW	Not supported	
LUS-350 CMYK	ClClWW	Not supported	
	WWWW	Not supported	

*1 : Braille is printed in CMYK + white mixed colors.

6Color+SP

Ink set	Special color set	Standard mode	High-speed mode
LH-100 CMYKLcLm ELH-100 CMYKLcLm	WCl	✔	✔ *1
LUS-350 CMYKLcLm	WCl	Not supported	

*1 : Braille is printed in CMYK + white mixed colors.

■ Print conditions

In RasterLink, device profiles with the following conditions should be installed for each ink set.



• When a job is created, output settings are automatically applied to braille jobs.

4 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	1200 x 1200 VD	600 x 900 VD
No. of passes	32 passes	12 passes

6 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	1200 x 1200 VD	600 x 900 VD
No. of passes	32 passes	24 passes

● JFX220-2515

■ Ink sets and supported braille modes

4Color+SP

Ink set	Special color set	Standard mode	High-speed mode
ELS-120 CMYK	CIPWW	✔	✔ *1

*1 : Braille is printed in CMYK + white mixed colors.

6Color+SP

Ink set	Special color set	Standard mode	High-speed mode
ELS-120 CMYKLcLm	ClPWW FyFp	✔	✔ *1

*1 : Braille is printed in CMYK + white mixed colors.

■ Print conditions

In RasterLink, device profiles with the following conditions should be installed for each ink set.



• When a job is created, output settings are automatically applied to braille jobs.

4 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	600x900 VD	600x900 VD
No. of passes	24 passes	12 passes

6 Color+SP

Mode	Standard mode	High-speed mode
Media	[Braille] Standard mode	[Braille] High-speed mode
Resolution	600x900 VD	600 x 900 VD
No. of passes	24 passes	24 passes

Recommended Media for Each Ink

Substrate	LH-100 ELH-100	LUS-120 ELS-120
Polycarbonate	OK	OK
Polystyrene	OK	OK
ABS	OK	OK
PET w/ Adhesive Coating HK31WF	OK	OK
PET w/ Adhesive Coating U292W	Not available	OK

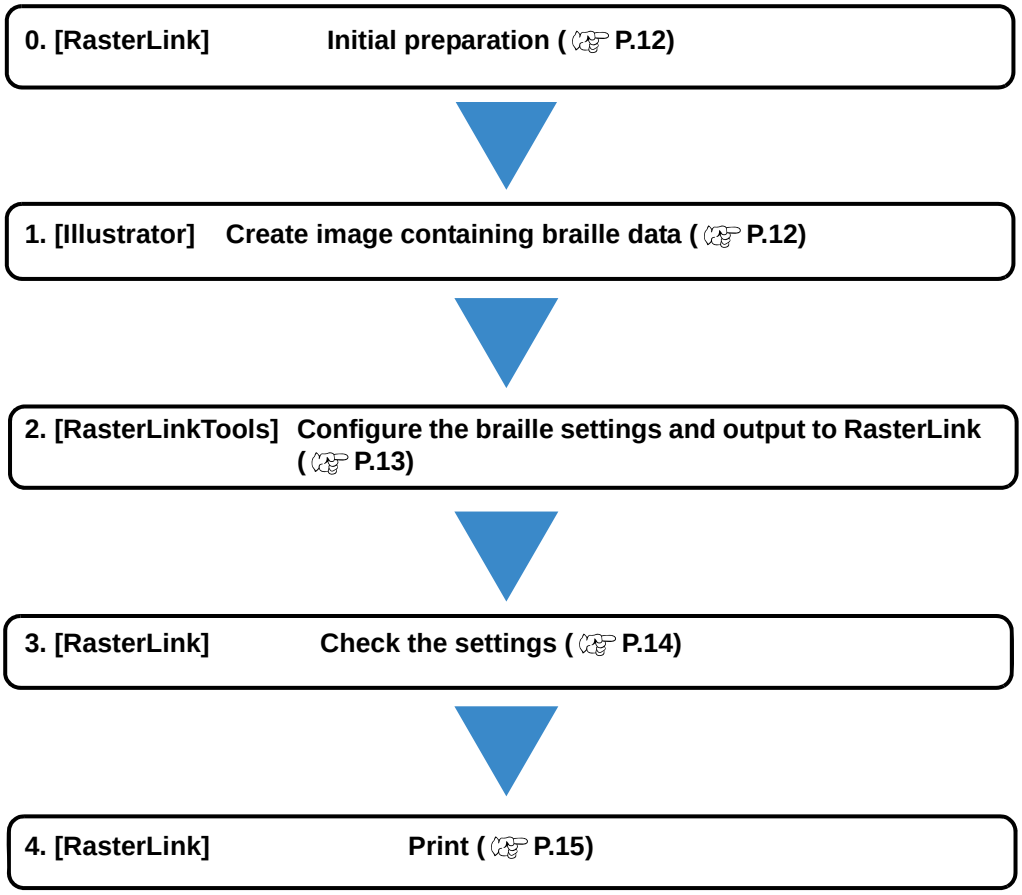
Even with media of the same type, the following issues may occur when manufacturers, types, or environments differ.

- •Media becomes warped and rubs against the heads.
- •Ink eventually peels off the media.

Please confirm that no problems are occurring before use.

Printing in Standard Mode/High-Speed Mode

The explanation is provided in the following order:



0. [RasterLink] Initial preparation

(1) Create a hot folder
- Image data used in Standard/High-speed modes must be loaded into RasterLink using a hot folder.
- For details of how to create a hot folder, refer to the [RasterLink NetworkConnec-tionGuide].

(2) Install a dedicated profile
- A dedicated profile is required for printing in Standard/High-speed mode.

Dedicated profiles may be obtained in the following two ways:
- Install via the profile manager download function.
- Download from the RasterLink download page.

For details of how to install profiles, refer to the [RasterLink Installation Guide].

1. [Illustrator] Create image containing braille data

(1) Open the color image forming the base in Illustrator.

(2) Create the braille data.

Braille data can be created as follows:
- •Use braille font
  - (1)Input braille using a braille font.
  - (2)Select the braille to be input, then create an outline.
- •Use Ellipse tool to position dots in accordance with braille grammar

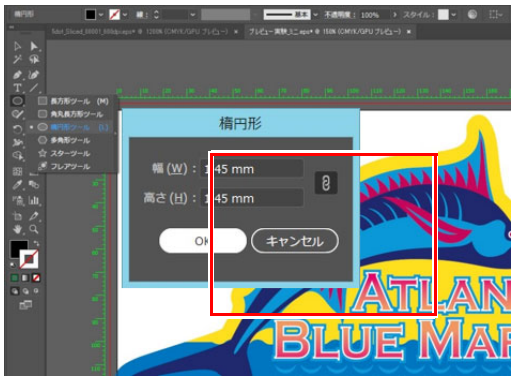
Creating braille date using ellipse tool

(1) Based on the Braille syntax, check the Braille arrangement for the character you want to create.

Example



(2) Use the Ellipse Tool in Illustrator to create the following shape.
- Shape: Perfect circle
- Diameter:
  Compliant with Braille standards.
  Setting the line to “None” makes alignment easier in the next step.



(3) Layout the shape you created in (2) based on the standards for Braille of JIS.



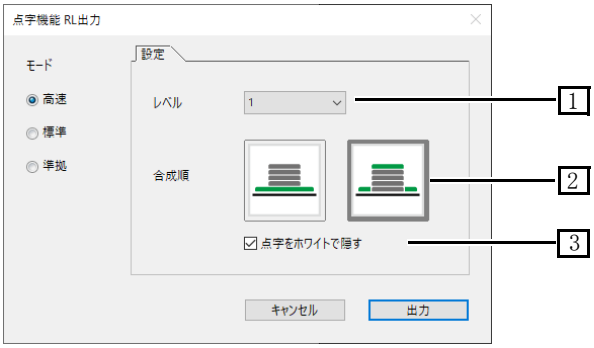
2. [RasterLinkTools] Configure the Braille Settings and Output to RasterLink

Important!	In the case of CorelDRAW When using special color such as metallic color together, use the palette provided by RasterLink-Tools. Refer to the separate "Metallic Color Printing Guide" for how to select a pallet.

(1) Select all of the braille data.
(2) Click the [Braille] icon in RasterLinkTools.
- The [Braille Function RL Output] window appears.

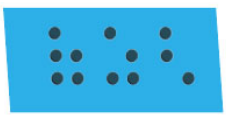
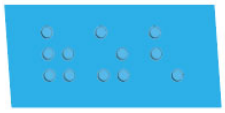
(3) Select “High-speed” or “Standard” for [Mode].

High-speed mode

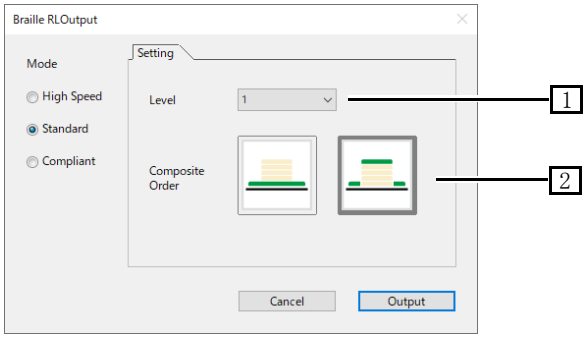


1	[Level]	Varies the braille height. Level 1: Approx. 0.3 mm Level 2: Approx. 0.5 mm Level 3: Approx. 0.7 mm Level 4: Approx. 0.9 mm
2	[Composite Order]	Specifies the printing order for the color image forming the base for the braille.
3	[Cover up braille with white]	Enable this to print white ink over the braille. • This setting is ignored for models not equipped with white ink, even when enabled. • If [Composite Order] is "Color -> Braille", it cannot be set.

Difference in print results depending on [Order] and [Hide Braille with white] settings

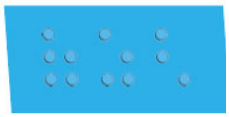
			
[Composite Order]	Color → Braille	Braille → Color	Braille → Color
[Cover up braille with white]	OFF	OFF	ON
Printed state of braille	Mixed colors	The braille appears darker as the color image is printed on top of the mixed colors.	The braille takes the color of the color image, as white ink is printed on top of the mixed colors, and the color image is printed on top of that.

Standard mode



1	[Level]	Varies the braille height. Level 1: Approx. 0.3 mm Level 2: Approx. 0.5 mm Level 3: Approx. 0.7 mm Level 4: Approx. 0.9 mm
2	[Composite Order]	Specifies the printing order for the color image forming the base for the braille.

Difference in print results depending on [Composite Order] settings

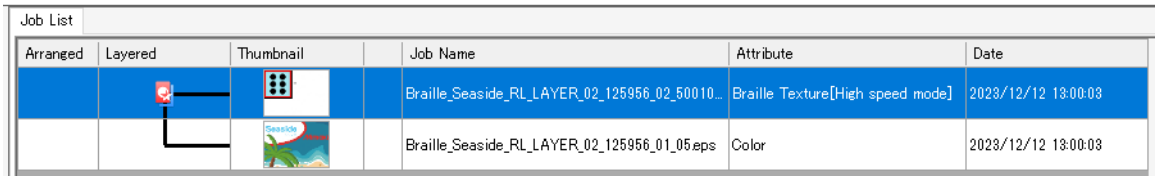
		
[Composite Order]	Color → Braille	Braille → Color
Printed state of braille	Braille is transparent	Braille takes color of color image

(4) Once set, click the [Output] button.
- The [Save as] window appears. Enter the file name and save.

Important! Be sure to output to the hot folder. If saving to another folder, be sure to load from the hot folder when loading to RasterLink.

3. [RasterLink] Check the Settings

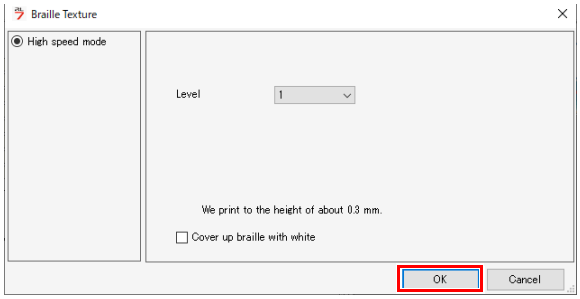
Loading using the hot folder creates two jobs as shown below.



(1) Select “Braille Texture” for the job properties, then click the [Properties] icon .

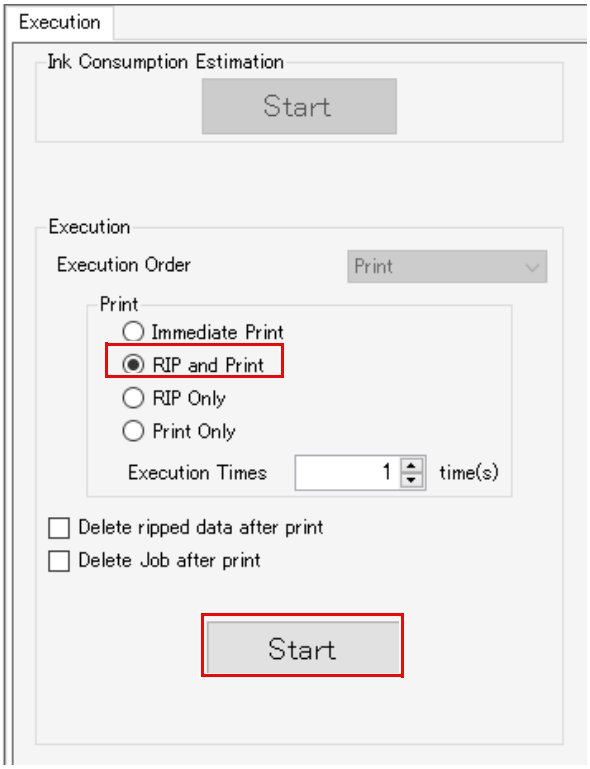
(2) Click the [Setup] button for [Job Attribute].
- The setting window appears.
- The [Level] and [Cover up braille with white] settings set in RasterLinkTools can be configured.
- For details of setting items, refer to P. 13

(3) Click [OK].



4. [RasterLink] Print

(1) Click the [Execution] icon .
(2) Select [RIP and Print], then click [Start].



Important! When outputting high-speed Braille, ink may get on the carriage base, the area around the head, and the UV LED frame.
Please clean the carriage base, head area, and UV LED frame frequently.



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