Mimaki UCJV150-160/UCJV300-160/130/107/75

This document bridges the gap between the Fiery XF documentation and the Mimaki UCJV150-160/UCJV300 documentation. Refer to the Installation section before you connect the printer to a computer.

The Operation section has information on profile generation and everyday use. Please refer also to the Operation Manual.

Installation

For a Mimaki UCJV150-160/UCJV300 printer, select the Fiery XF driver that matches the ink configuration in the printer:

Fiery XF Model (Printer Type)	Description
Mimaki UCJV150-160 LUS-170/175 CMYK	**Ink type: LED-UV Ink (LUS-170/LUS-175)** **4 Colors - CMYK**
Mimaki UCJV150-160 LUS-200 CMYK	**Ink type: LED-UV Ink (LUS-200)** **4 Colors - CMYK**
Mimaki UCJV300-160 LUS-170/175 CMYK **Mimaki UCJV300-130 LUS-170/175 CMYK** **Mimaki UCJV300-107 LUS-170/175 CMYK** **Mimaki UCJV300-75 LUS-170/175 CMYK**	**Ink type: LED-UV Ink (LUS-170/LUS-175)** **4 Colors - CMYK**
Mimaki UCJV300-160 LUS-200 CMYK **Mimaki UCJV300-130 LUS-200 CMYK** **Mimaki UCJV300-107 LUS-200 CMYK** **Mimaki UCJV300-75 LUS-200 CMYK**	**Ink type: LED-UV Ink (LUS-200)** **4 Colors - CMYK**
Mimaki UCJV300-160 CMYKcmW **Mimaki UCJV300-130 CMYKcmW** **Mimaki UCJV300-107 CMYKcmW** **Mimaki UCJV300-75 CMYKcmW**	**Ink type: LED-UV Ink (LUS-170/LUS-175/LUS-200)** **7 Colors - CMYKcmW**
Mimaki UCJV300-160 CMYKWCl **Mimaki UCJV300-130 CMYKWCl** **Mimaki UCJV300-107 CMYKWCl** **Mimaki UCJV300-75 CMYKWCl**	**Ink type: LED-UV Ink (LUS-170/LUS-175)** **6 Colors - CMYKWCl**
Mimaki UCJV300-160 CMYKW **Mimaki UCJV300-130 CMYKW** **Mimaki UCJV300-107 CMYKW** **Mimaki UCJV300-75 CMYKW**	**Ink type: LED-UV Ink (LUS-200)** **5 Colors - CMYKW**

From the computer viewpoint, the Mimaki UCJV-150/UCJV-300 supports as special USB Device and Network Device also. The latest driver is downloadable from

https://mimaki.com/product/inkjet/print-cut/ucjv150-160/specification.html
https://mimaki.com/product/inkjet/print-cut/ucjv300-series/specification.html

The Fiery XF drivers for Mimaki printers are available for Windows only. Macintosh OS X is not supported.

1   Follow the instructions in the Mimaki USB Driver Install Guide before you connect the printer. Mimaki USB Driver version 4.2.0 or later is recommended.

2   Install Fiery XF7.1 that supports **Mimaki UCJV-150/300 Printer Model**. To configure the Fiery XF output device:

- Add the Printer through "**Server Manager**".

- Select Connection Type as "**Print via Network**" or "**Print via Port**".

Printer Special Settings

White ink printing

Print mode:

| Spot color WHITE_INK | ⌄ |

White ink coverage: 100 %

Spread and choke: -0.02 mm

Media

Vaccum:

| Strong | ⌄ |

Drying time per scan

Drying time per scan: 0.1 seconds

Autocut drying time

Autocut drying time: 1 seconds

Logical Seek

☑ Enable Logical Seek

Cut

Mode:

| Autocut off | ⌄ |

Printing order:

Printing order:

| Off | ⌄ |

Media Type

Media Type:

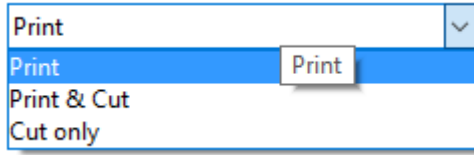| PVC | ⌄ |

Clear ink printing

Print mode:

| Off | ⌄ |

◯ Glossy

◉ Matte

Clear ink coverage: 100 %

- **Contour Cutting** – This has 3 Option to Select which is Self-Explanatory as mentioned below:

Print

Print
Print
Print & Cut
Cut only

- **White ink printing (Supported for Mimaki UCJV-300-75/107/130/160 CMYKcmW, Mimaki UCJV-300-75/107/130/160 CMYKW & Mimaki UCJV-300-75/107/130/160 CMYKWCl)**

There are following options to print White:

Name	Meaning
Spot color WHITE_INK	The spot color of this name or alias from a separated document prints white.
Inked image	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds white
Bounding box	Every pixel in the image rectangle adds white. This is the recommended mode during linearization and profile creation.
White_INVERSE	Same as "Spot color WHITE_INK" but channel inversed
Ink chroma map	Reduces the amount of white for darker colors.
Off	White off, even when it comes from the separated document

The options "Inked image" and "Bounding box" work regardless whether the file is separated or not.

White ink coverage

White ink coverage is an option that configures the amount of white ink relative to black.

- **Clear ink printing (Supported for Mimaki UCJV-300-75/107/130/160 CMYKWCl)**
  There are following options to print Clear Ink:

Print mode
There are five ways to print Clear ink:

Name	Meaning
Spot color CLEAR_INK	The spot color of this name or alias from a separated document prints Clear. This is the default mode.
Inked image	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds Clear
Inked image inverse	Same as "Inked image" but channel inversed
Bounding box	Every pixel in the image rectangle adds Clear. This is the recommended mode during linearization and profile creation.
Off	Clear off, even when it comes from the separated document

The settings "Inked image", "Inked image inverse" and "Bounding box" work regardless of whether the file is separated or not.

Clear ink finishing

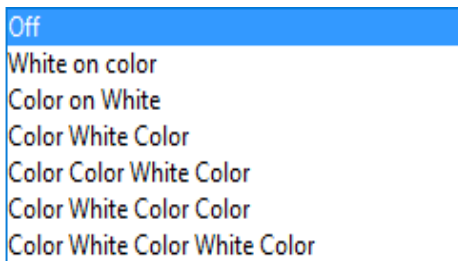The following types of Clear ink finishing can be achieved:

- **"Matte"** prints Clear ink with matte finish

- **"Glossy"** prints Clear ink with glossy finish. Printing with glossy finish is slower compared to matte because the job has to go through an extra irradiation pass.
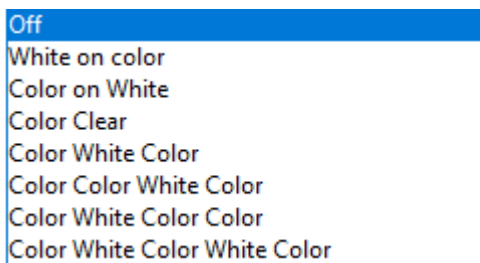
Clear ink coverage

Clear ink coverage is an option that configures the amount of Clear ink relative to black. The available settings range from 1% to 100%

- **Printing Order (Supported for Mimaki UCJV-300-75/107/130/160 CMYKcmW & Mimaki UCJV-300-75/107/130/160 CMYKW)**

Because white is opaque, printing order is important:

```
Off
White on color
Color on White
Color White Color
Color Color White Color
Color White Color Color
Color White Color White Color
```

Printing Order - (Supported for Mimaki UCJV-300-75/107/130/160 CMYKWCl)

```
Off
White on color
Color on White
Color Clear
Color White Color
Color Color White Color
Color White Color Color
Color White Color White Color
```

1- **"Color on white"** uses white as foundation, then prints the color part.

2- **"White on color"** prints the white on top of the color. This is for printing transparencies from the back side.

3- **"Color White Color"** prints three layers with white in the middle.

4- **"Color Color White Color"** prints 4 Layers in the following Sequence

    Color, Color, White, Color.

5- **"Color White Color Color"** prints 4 layers in the following Sequence.

    Color, White, Color, Color.

6- "**Color White Color White Color**" prints 5 layers in the following sequence:

    Color, White, Color, White, Color.

7- "**Color Clear**" prints Clear Ink on top of Color.

- **Vaccum** - Setting in the "Special Settings Tab" set the absorbability of absorption fan

- **Drying time per scan** - sets the drying time per scan in the unit of 0.1 second

- **AutoCut Drying time** - sets the drying time after printing.

- **Logical Seek** - sets the logical seek for the printer i.e. Continuous Printing

- **Media Type** – sets the Media Type (PVC, TARPAULIN, PET, PAPER, SYHTHETIC PAPER, FABRIC)

Constraint Table between Media Types, Print mode & Resoloution

1. **_Mimaki UCJV-150-160 CMYK LUS-170/175_ & _Mimaki UCJV-300-160/130/107/75 CMYK LUS-170/175_**

Media Type	Resoloution	Print Mode
PVC	900x300	6 Pass 8 Pass
PVC PET PAPER SYNTHETIC PAPER FABRIC	600x600	8 Pass 12 Pass 8 Pass(Hi-Speed Scan) 12 Pass(Hi-Speed Scan)
PVC	1200x600 1200x1200	16 Pass 22 Pass 16 Pass(Hi-Speed Scan) 22 Pass(Hi-Speed Scan)
TARPAULIN	600x300	6 Pass 4 Pass

2. **_Mimaki UCJV-150-160 CMYK LUS-200_ & _Mimaki UCJV-300-160/130/107/75 CMYK LUS-200_**

Media Type	Resoloution	Print Mode

PVC PET PAPER SYNTHETIC PAPER FABRIC	600x600	16 Pass 24 Pass 16 Pass(Hi-Speed Scan) 24 Pass(Hi-Speed Scan)
PVC PET PAPER SYNTHETIC PAPER	1200x600 1200x1200	16 Pass 22 Pass 16 Pass(Hi-Speed Scan) 22 Pass(Hi-Speed Scan)

Constraint Table between Media Types, Printing Order, Print mode & Resoloution

- ### *Mimaki UCJV-300-160/130/107/75 CMYKcmW*

Printing Order	Media Type	Resoloution	Print Mode
Off White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC PET FABRIC	600x600	16 Pass 24 Pass 16 Pass(Hi-Speed Scan) 24 Pass(Hi-Speed Scan)
Off White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC PET FABRIC	1200x600 1200x1200	32 Pass 44 Pass 32 Pass(Hi-Speed Scan) 44 Pass(Hi-Speed Scan)
Off White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC	1200x600 1200x1200	12 Pass 16 Pass

- *Mimaki UCJV-300-160/130/107/75 CMYKWCl* & *Mimaki UCJV-300-160/130/107/75 CMYKcmW*

Printing Order	Media Type	Resoloution	Print Mode
Off	PVC TARPAULIN PET PAPER SYNTHETIC PAPER FABRIC	600x600	16 Pass 24 Pass 16 Pass(Hi-Speed Scan) 24 Pass(Hi-Speed Scan)
Off	PVC PET PAPER SYNTHETIC PAPER	1200x600 1200x1200	32 Pass 44 Pass 32 Pass(Hi-Speed Scan) 44 Pass(Hi-Speed Scan)
Off	PVC TARPAULIN	900x300	12 Pass 16 Pass
Off	TARPAULIN	600x300	8 Pass 12 Pass
White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC PET FABRIC	600x600	16 Pass 24 Pass 16 Pass(Hi-Speed Scan) 24 Pass(Hi-Speed Scan)
White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC PET FABRIC	1200x600 1200x1200	32 Pass 44 Pass 32 Pass(Hi-Speed Scan) 44 Pass(Hi-Speed Scan)
White on color Color on White Color White Color Color White Color Color Color Color White Color Color White Color White Color	PVC	1200x600 1200x1200	12 Pass 16 Pass

Printing Order	Media Type	Resoloution	Print Mode
White on color	PVC	1200x600	12 Pass
Color White			16 Pass
Color			
Color White Color Color			
Color Color White Color			
Color White Color White Color			

- ***Mimaki UCJV-300-160/130/107/75 CMYKWCl***

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Color Clear	PVC PET	1200x600 1200x1200	32 Pass 44 Pass 32 Pass(Hi-Speed Scan) 44 Pass(Hi-Speed Scan)
Color Clear	PVC PET	600x600	16 Pass 24 Pass 16 Pass(Hi-Speed Scan) 24 Pass(Hi-Speed Scan)

History

1.0 - 03.07.2018 – First draft

1.1 - 20.07.2018 – Classifying the Printer based on Roll Width.

1.2 - 09.10.2018 – Media type & Printing Order Constraint added with the new Classification of Printers.

1.3 – 25.06.2019 – Clear Ink Support Added with the new Classification of Printers.