KONICA MINOLTA

# INKJET CONTROL SYSTEM

# IJCS-1

## Best suited development tool for industrial inkjet system


KM1024 KM512

### Control System for Exclusive Use with Konica Minolta Inkjet Printheads

The inkjet control system IJCS-1 is a dedicated controller for the operation of Konica Minolta printheads. Simply connecting the device to any available PC, in combination with dedicated drive circuits KMDB series, is all that is required to initiate procedures such as inkjet printhead evaluation and testing.

### Reduction in Inkjet Printer System Development Time

By providing the ability to immediately carry out processes such as Konica Minolta inkjet printhead evaluation, verification of head-to-ink matching and checking of actual printed image quality, the device offers benefits such as reduction in the number of development tasks and development time.

Giving Shape to Ideas

# Inkjet Control System

# IJCS-1

## Features

### Simplicity of Connection and Operation

All that is required for set up is to connect the IJCS-1 body to any available PC by a USB cable. The accessory software enables simple setting of image data transmission and various inkjet printhead parameters (e.g. voltage and drive waveform).

### Simplicity of Connection to External Devices

IJCS-1 is furnished with functions that allow operation in response to synchronizing signal received from external devices and output of triggers to external devices to facilitate the creation of an inkjet experiment system by enabling combined operation with devices such as stages and strobe systems.

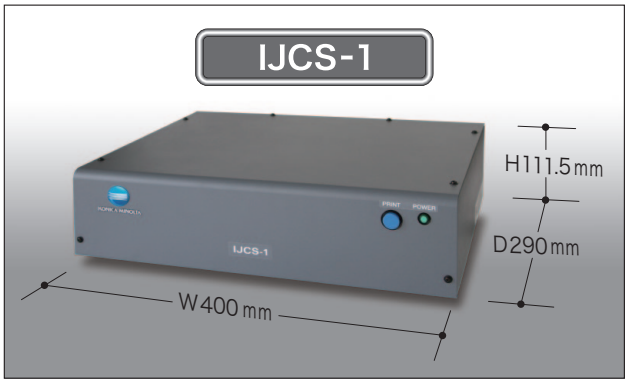
### Reduction in Inkjet Printer System Development Time

An SDK (Software Development Kit) is available to enable the use of the accessory software in combination with the customer's application software.
In addition, I/F information is also available for the KMDB series, making it possible to create an inkjet system without the need for time-consuming tasks such as the development of elements such as circuit boards and printhead drive software.

| ■ Specifications Inkjet Control System IJCS-1 | |
|---|---|
| Applicable Printheads | KM512 series<br>KM1024 series<br>KM1024i series (TBD) |
| Max. Printhead Number | 4 pieces (16 pieces in case of 4 units with cascade connection) |
| Power Supply | AC100-240V 50/60Hz |
| Operating Environment | Temperature 20~30°C Humidity 30~70% No condensation |
| Interface | USB 3.0 |
| Input Signal | Encoder signal (phase A, B, Z)<br>Scan trigger, Flash trigger<br>*RS422 or TTL selectable |
| Output Signal | Fire signal<br>5VC (1A) output |
| Printing Mode | Uni-directional, Bi-directional |
| Image Format | bmp, tiff |
| Operating System | Windows 7 Professional 32bit / 64bit<br>Pentium4, 2GHz or more<br>Memory 256MB |
| Language | English, Japanese |
| Product Life | 5 years or 10,000 hours |
| Weight | 10.0 kg |
| Dimensions | W380×D323×H142mm |
| Accessory | Drive unit, IJCS-1-DU01A, DC connection code |

| ■ Drive Circuit Board KMDB Series | |
|---|---|
| Applicable Printheads | KMDBS01A : KM512 series<br>KMDBL01A : KM1024 series<br>KMDBL02B : KM1024i series (TBD) |
| Power Supply | Printhead and Logic Board : 24.0±2.0v, 1.2A or less<br>Heater : 24.0±3.0v, 1.2A or less |
| Operational Environment | Temperature 10~40°C Humidity 30~70% No condensation |
| Driving Voltage Setting Range | 4.0v~23.5v Adjustable by 0.01v pitch |
| Temperature Controllable Range | 40~55°C (±1°C) |
| Product Life | 5 years |
| Dimensions | KMDBS01A : 55mm × 64mm<br>KMDBL01A : 58mm × 60mm<br>KMDBL02B : 74mm x 103mm (TBD) |

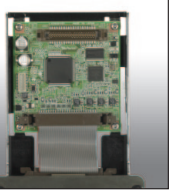
* Above attributes may be changed without notice.




Printhead drive unit, LVDS cable and power code

KMDBS01A

KMDBL01A



KMDBL02B

Connected product image with PC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