



KGKJET CCS-R (Japan)

Robust, Reliable and Economical



Ensures High Print Quality, Reliability & Uptime With Food Grade Inks



Applications:

- Confectionaries & Snacks
- Beverages
- Dairy
- Meat & Poultry Products
- Baked & Frozen Foods
- Cosmetics
- Pharmaceuticals
- Packaging Industry
- Chemical Products



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CCS-R is built to withstand robust and demanding environment of low temperature and humidity. It can print on substrate materials such as paper, metal, plastic, glass, wood and various package materials. It can print expiry dates, lot numbers, graphics or logos and other pertinent code formats.

Features and Benefits of the **CCS-R**

● **Robust: adaptable and design to meet extreme working environments**

CCS-R can work under extreme harsh environments such as relative high humidity and low temperature. It is very flexible and can print lot numbers, manufacturing / expiry dates, logos and other pertinent code formats on most type of packaging.

● **Patented 'Nozzle Sealing System Technology': Better Uptime, Lesser Maintenance & Superior Reliability**

The patent called 'Nozzle Sealing System' by KGK is a new technology in reducing operation cost and virtually maintenance free. It utilizes the gutter tube sealing on the nozzle by slider during non-operation.

During operation, the gutter will open automatically and closed when production stop. With this technology, it prevent nozzle from dust, which can cause ink line deflection. This also can prevent dry ink clogging around the nozzle area.

● **'Auto Cleaning' No Longer Required**

'Nozzle sealing system' can reduce solvent consumption as automatic cleaning with solvent which is no longer required during start-up and shut down.

'Nozzle Sealing System' ensures nozzle sealed with gutter to prevent ink from drying around the nozzle and gutter.

● **Preserving Ink Quality**

With no 'auto cleaning' required, CCS-R can maintain the viscosity of the ink as no solvent is being introduce into the system. This ensures stable ink viscosity through out the printing process at all time to keep consistent quality printing in comparison with other inkjet printers.

● **Automatic Interval Setting**

CCS-R's automatic start-up and shut down function can be programmed. It is designed to help circulating the ink during non-operation. This reduces the risk of nozzle clogging which arises due to drying of ink. Start-up and shut down interval can be set arbitrarily via timer.

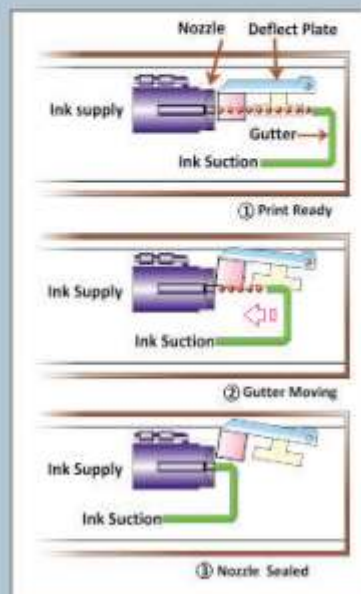
Continuous Inkjet Printer **Continuous IJP Technology**

When small character inkjet printer work, the ink is ejected continuously from the nozzle by pressure, which forms regular interval ink dots through modulation, ink dots are electrified by charge detector later. The electrified ink dots will fly onto printing material and form dot matrix after deflection by high-voltage deflecting electrode.



Auto Nozzle Capping System

Auto Nozzle Capping System prevent the dried ink clogging around the nozzle-area, the solvent consumption drops rapidly.





● Lower Consumption

CCS-R is equipped with 50µm nozzle (60µm nozzle as an option without making any changes in hardware and software). Comparing with 60µm, the consumption ratio of 50µm is 1:1.7 e.g. with the same quantity of ink, 50µm-nozzle's print out will be 1.7 times more than 60µm-nozzle. As the 50µm -nozzle produces smaller ink drops (or dot), it will consume less ink solvent compared to the 60um-nozzle.

Furthermore, smaller ink dots produce clearer prints and able to achieve up to around 150 million characters per litre of ink. This enables our customer to enjoy more savings while maximizing efficiency and effectiveness.



● High Quality Ensures Stability and Safety

With the state-of-art R&D in electronic technology along with the high and stringent quality assurance, KGG always strive to ensure customer a high quality and reliability of product. KGG's ink jet printers are widely used in the most packaging industry such as food, beverage, pharmaceutical, chemical products, construction materials and many more.

● Easy Data Transmission

KGG ink-jet printers can be connected to PC via RS232C with a maximum transmission speed of 38,400bps. This ensures a more stable communication especially in automatic application.

● What You See Is What You Get

Ultimate functionality and user-friendliness were our main priority. Designing inputs e.g. codes and message formats can be easily done on the LCD Panel design and verified from WYSIWYG displays on the screen.



● Customization

We have decades of experience in the industry of marking and coding solutions. With our reliable R&D team, KGG can fully provide both hardware and software customization for special applications according to customer's requirement.



● Global Support

KGG has set up sales network and support systems throughout the region and cities all around the globe. Likewise, KGG's technical support engineering teams are always ready to respond and support customers.

• Technical Specifications

Items	Specifications
Printing Method	Continuous (Charge Control System)
Character Height	1-10mm
Print Speed [character/sec.] (5x5 dot, interval 1)	[40µm nozzle] 2666 [50µm nozzle] 2041 [60µm nozzle] 1780
Lines & Dot Matrix	[1-4 line] 5x5, [1-3Line] 7x8, 7x5, [1-2 Line] 12x10, 10x8, 9x9, 9x7 [1 line] 24x24, 24x18, 16x16, 16x12
Fonts	Minchao, Gothic, Block
Memory	50 messages Max.
Date & Time (expiration date)	Year/date, day of week, time (12/24 schedule), annual serial date, annual serial week number, early/middle/late part of month (variable term setting), AM/PM and the replace-character function (replaces year, month, day, time, minute and second with different characters in single-digit)
Numbering Function	Max 8 digits, optional default value setting, up/down, carry (1 count can be set ranging from 1 to 9999 works), zero suppression function (replaces zeros in higher digits with spaces), numbering replace-character function (replaces with characters other than figures)
Communication	RS232C 1CH, Max.76, 800BPS
Conduit Length	3.5m
Nozzle Size	50µm
Date Input	Full keyboard, RS-232C communications
User Interface	Japanese, English
Dimensions	Main Unit:H674mmxW450mmxD300mm, Printhead:H40mmxW40mmxD199mm
Environmental Standard	0-40°C, 10-80%RH (Non-codensing)
IP	IP54
Power Supply	AC200V 50/60Hz 70W (100VA) GB standard
Ground	Type D ground

Due to our policy of continuous product improvement, specifications are subject to change without notice. E&OE.



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