

Kyocera's Inkjet Printheads are used in a wide variety of applications.
We aim to contribute to society by creating value-added technologies.



Textile

Value and Benefit	Increases design possibilities Eliminates overproduction and mass disposal Improves work environment
Suitable Products	KJ4B-EX600-RC KJ4B-EX600 KJ4B-QL



Labels

Value and Benefit	Meets new/diverse needs Increases personalization Offers variable information
Suitable Products	KJ4A-EX1200-RC KJ4A-AL KJ4A-RN KJ4A-TL



Commercial Printing

Value and Benefit	Reduces operator workload Eliminates overproduction and mass disposal Increases personalization
Suitable Products	KJ4B-EX1200-RC KJ4B-1200 KJ4B-YN KJ4B-QL



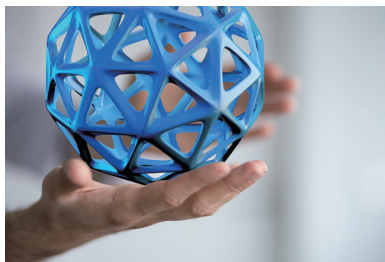
Packages

Value and Benefit	Meets new/diverse needs Increases personalization Enhances product appeal
Suitable Products	KJ4B-EX1200-RC KJ4B-EX600-RC KJ4B-0300



Sign Graphics

Value and Benefit	Meets new/diverse needs Allows "on-demand" printing Increases personalization
Suitable Products	KJ4A-RN KJ4A-0300



3D Printing

Value and Benefit	Increases design freedom Shortens prototype lead time Accelerates manufacturing innovation
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Inkjet Printheads

Kyocera's Inkjet Printheads are Shaping a New Future



Experience the outstanding technology of Kyocera's inkjet printheads.



Inkjet Printheads

We offer consultations for inkjet printhead products and related technologies. Please feel free to contact us.

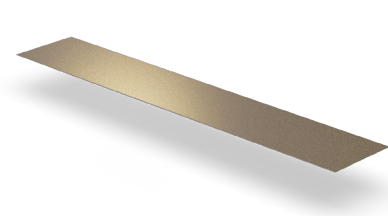


Ink

Jetting evaluation and ink-dipping tests can determine the compatibility of virtually any ink or novel material in advance. Please contact us if you would like to check whether a specific ink can be tested.

Kyocera's Inkjet Printhead Technology

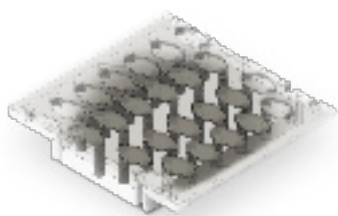
High Speed



High-Performance Monolithic Piezo Actuator

Kyocera has designed and manufactured piezoelectric actuators in-house, utilizing highly advanced fine ceramic technology. Ensuring high-speed printing and high productivity, these actuators fulfill the need for high-speed nozzle control with the instantaneous-response characteristics of piezoelectric ceramics.

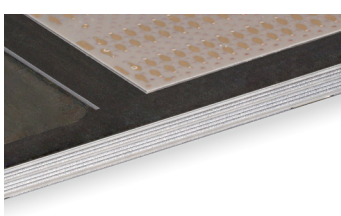
High Image Quality



Flow-Channel Design Technology

Microfabricated stainless-steel laminated structure offers high durability and stable continuous printing. With our unique flow channel design technology inherent to laminated structures, we achieve optimal flow channel design for various inks and applications.

High Durability



Stainless-Steel Lamination

Our ink-flow channel is composed of laminated stainless-steel parts. Laminating of stainless-steel parts helps achieve outstanding robustness and stable, continuous printing.

Contact Us

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+668 1 9269565

Please feel free to contact us with any questions.

Corporate Printing Device Group



WEB Site of
Inkjet Printheads



Contact Form

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* Duplication or reproduction of any part of this data sheet without approval is prohibited.
* Product names and specifications are subject to change without prior notice for further improvement.
* Please refer to the handling precautions in the instruction manual or specifications when using products.
* All graphs and data in this datasheet are based on Kyocera research unless otherwise noted.

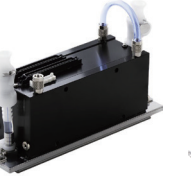
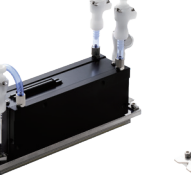
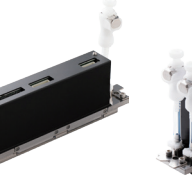
A wide lineup to support various needs for ink types,resolutions, and printing speeds.

KJ4A Series

Designed for ink with relatively high viscosity, including UV curable ink.

KJ4B Series

Designed for high-speed printing with water-based ink.

												
Printhead New (*Former)	KJ4A-EX1200-RC	KJ4A-RN	KJ4A-AL	KJ4A-TL	KJ4A-0300	KJ4B-EX1200-RC	KJ4B-1200	KJ4B-EX600-RC	KJ4B-EX600	KJ4B-YN	KJ4B-QL	KJ4B-0300
Ink	UV					AQ						
Maximum Drive Frequency (kHz)	64	30	20	20	30	80	64	40	30	40	30	30
Resolution (dpi)	1200 × 1200	600 × 600			300 × 600	1200 × 1200		600 × 600				300 × 600
Print Speed*1 (m/min)	81.3	76.2	50.8	50.8	76.2	101.6	81.3	101.6	76.2	101.6	76.2	76.2
Minimum Drop Volume*1 (pL)	2	3	3	6	4	2	1.5	5				
Maximum Drop Volume*1 (pL)	4	14	17	14	14	4	5	14	16	12		
Nozzle Recirculation	Yes	No				Yes	No	Yes	No			
Width×Length×Height (mm)	200×55.5×79.15	200×30×69.4	200×25×58.0	200×25×57.9	200×36×68.9	200×55.5×79.1	200×58.4×79.1	200×41.6×68.2	200×25×68.1	200×30×69.2	200×25×58.0	200×36×68.5
Number of Nozzles	5,116	2,656 (2,558)			2,656	5,116	5,312	2,656 (2,560)		2,656 (2,558)		2,656
Effective Print Width (mm)	108.27	108.25			112.35	108.27	112.42	108.33		108.25		112.35
Recommended Ink Viscosity*2 (mPa*s)	6.0~7.0					5.0~6.0						

*1 : These values are for reference only. *2 : The ink viscosity could be adjusted to the recommended range with the heater inside the printhead.

EX Series Features



Large Monolithic Piezo Actuator

Thickness of 0.04 mm and length of over 100 mm ensure uniform image quality within the printhead and high print quality.

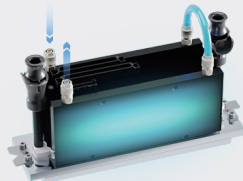
KJ4A EX1200-RC, KJ4B EX1200-RC, EX600-RC, EX600



Ink Recirculation at the Nozzle

Enables stable printing by controlling the temperature uniformly and suppressing the sedimentation of ink components.

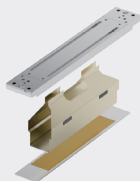
KJ4A EX1200-RC, KJ4B EX1200-RC, EX600-RC



Water-Cooling System

Included as a standard specification to ensure continuous printing and stable print quality.

KJ4A EX1200-RC, KJ4B EX1200-RC, EX600-RC



Flow-Channel Structure with Stainless-Steel Lamination

Simple and robust structure for enhanced durability.

KJ4B EX600-RC, EX600