

INKJET PRINTHEADS

KJ4A-SERIES · KJ4B-SERIES · KJ4C-SERIES



- ▶ Excellent performance opening new horizons
- ▶ Design center support with inkjet test lab in Esslingen, Germany

KEY DEVICES BEYOND THE STANDARD

▶ Features

- **Recirculation available**
- **Wide print width:** 108 mm
– wider printing coverage with fewer printheads
- **High-speed:** 100 m/min achieved in single pass printing
- **High image quality:** 1200 dpi grayscale due to Kyocera's piezoelectric actuator
- **High reliability** for continuous printing
– unique ink channel design provides stable ink supply up to 5312 nozzles

▶ KJ4A-Series

- designed for UV-curable inks or other high viscosity inks
- optimal for e.g. label/package, sign graphics, offset surprint

▶ KJ4B-Series

- designed for high speed printing of water-based inks
- optimal for e.g. transaction printing, document printing, textile, MICR printing, 3D printing, building materials and others

▶ KJ4C-Series

- designed for high viscosity oil-based inks with ink circulation feature
- optimal for e.g. ceramic tile printing which requires large drop volume

COMPANY

 **KYOCERA** KYOto CERAmics

Headquartered in Kyoto, Japan, KYOCERA Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry.

Kyocera produces the piezo actuator, which is the core component in inkjet printheads. The production is based on Kyocera's technical expertise in fine ceramics ever since the company was established in 1959.

With the combination of the piezo technology and printing device technology, Kyocera inkjet printheads have realized high speed printing, high resolution, grayscale and wide printing width.

AQ

KJ4B-SERIES



Model	KJ4B-1200 (RC)	KJ4B-1200	KJ4B-QA	KJ4B-YH
Type	High resolution with R/C	Specialist for high resolution applications	Standard	High speed
Number of nozzles (in effective print width)	5116	5312 (5312)	2656 (2558)	2656 (2558)
Standard resolution [dpi]	1200 x 1200	1200 x 1200	600 x 600	600 x 600
Effective print width [mm]	108.27	112.44	108.25	108.25
Max. drive frequency [kHz]	80	64	30	40
Max. print speed [m/min]	100	80	75	100
Drop volume [pL]	1.0 - 2.5 (TBD)	1.5 / 3 / 5	5 / 7 / 12 / 18 ⁽¹⁾	5 / 7 / 12
Optimum ink viscosity [mPa*s]	5.5 - 6.0	5.5 - 6.0	5.0 - 6.0	5.0 - 6.0
Dimensions (W x D x H) [mm]	200 x 52 x 141.1	200 x 45 x 71.6	200 x 25 x 59.3	200 x 30 x 60.9
Weight [g]	1400 (TBD)	760	420	438

AQ

KJ4B-SERIES



Model	KJ4B-0360	KJ4B-0300	KJ4B-0150	OIL KJ4C-SERIES	KJ4C-0360
Type	Large drop deposition with R/C	2c for scanning applications	4c for multi-pass printing		ink circulation
Number of nozzles (in effective print width)	1584 (1456)	1328 x 2 channels (1328 x 2)	664 x 4 channels (664 x 4)		1568 (1568)
Standard resolution [dpi]	360 x 360	300 x 300	150 x 150		360 x 360
Effective print width [mm]	102.66	112.35	112.35		109
Max. drive frequency [kHz]	12	30	30		12
Max. print speed [m/min]	50	152	152		50
Drop volume [pL]	15 - 84 (TBD)	5 / 7 / 12 / 18 ⁽¹⁾	5 / 7 / 12 / 18 ⁽¹⁾		15 - 84
Optimum ink viscosity [mPa*s]	10 - 15 (TBD)	5.0 - 6.0	5.0 - 6.0		10 - 18
Dimensions (W x D x H) [mm]	200 x 39 x 54	200 x 36 x 61.1	200 x 45 x 66.8		200 x 39 x 54
Weight [g]	424	540	640		407

(1) 18pL: for up to 20 kHz drive frequency only

UV

KJ4A-SERIES



Model	KJ4A-RH	KJ4A-TA	KJ4A-AA	KJ4A-0300
Type	Print on round surface	Standard	Enables small drop	2c for multi-pass printing
Number of nozzles (in effective print width)	2656 (2558)	2656 (2558)	2656 (2558)	1328 x 2 channels (1328 x 2)
Standard resolution [dpi]	600 x 600	600 x 600	600 x 600	300 x 300
Effective print width [mm]	108.25	108.25	108.25	112.35
Max. drive frequency [kHz]	30	20	20	30
Max. print speed [m/min]	75	50	50	152
Drop volume [pL]	3 / 7 / 11 / 14	6 / 7 / 11 / 14	3 / 6 / 13	4 / 6 / 10 / 14
Optimum ink viscosity [mPa*s]	6.0 - 7.0	6.0 - 7.0	6.0 - 6.5	7.0 - 7.5
Dimensions (W x D x H) [mm]	200 x 30 x 61.2	200 x 25 x 59.3	200 x 25 x 59.3	200 x 36 x 61.4
Weight [g]	438	420	420	540



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