FPA-3030i5a i-line Stepper for Power, 5G & IoT Applications

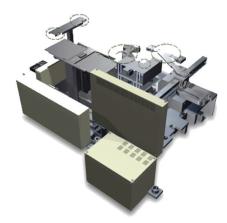


FPA-3030i5a FEATURES

- Resolution ≤ 350 nm
- · Lens Reduction 5:1
- Substrate handling capability: 50, 75, 100, 150, 200 mm
- FPA-3030i5a Steppers leverage and extend proven Canon FPA-3000 Stepper designs
- · Canon Built-In Metrology (CANOMAP)

KEY OPTIONS

- · Through Silicon Alignment (TSA) Scope
- Die-by-Die Overlay Compensation (EAGA)
- · Multi-Wafer Size Handling Kit
 - 75 & 100 mm, 100 & 150 mm, 150 & 200 mm
- · Warped/Bonded/Transparent Wafer Handling
- · Pellicle Particle Checker
- · PC Remote Console
- · GEM-compliant online software



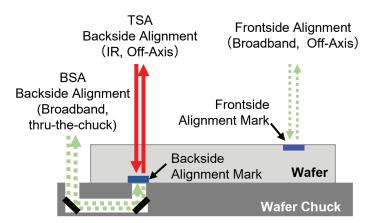
Multi-Wafer Size Handling Kits allow quick changeover between two wafer sizes $75 \leftrightarrow 100$ mm, $100 \leftrightarrow 150$ mm, $150 \leftrightarrow 200$ mm

High-Resolution i-line Stepper for ≤ 200 mm Wafer Fabrication

FPA-3030i5a [30i5+] Steppers deliver performance and flexibility required for manufacturing and R&D environments and support a variety of substrates including GaAs, GaN and transparent sapphire and SiC wafers.

The 30i5a is able to support a range of wafer sizes for innovative Internet-of-Things (IoT), 5G, automotive, power and Micro-electromechanical Systems (MEMS) applications and can be configured to process wafers from 50 mm (2") to 200 mm (8") in diameter. 30i5a systems can also be configured to handle two different wafer sizes with the Multi-Wafer Handling Kit option.

The resolution, overlay, productivity and available options of the 30i5a make it a cost-effective solution for challenging ≤ 200 mm wafer processes.



FPA-3030 Stepper Backside Alignment Options enable front-to-back overlay alignment

SPECIFICATIONS	
Technology	i-line Stepper (365 nm)
Resolution	≤ 350 nm
Overlay	≤ 40 nm (Front) ≤ 150 nm (Front, TSA)*
Numerical Aperture	0.45 - 0.63
Lens Reduction Ratio	5:1
Exposure Field	22 x 22 mm
Substrate Size Options	50, 75, 100, 125, 150, 200 mm
Dimensions (W x D x H)	1.9 x 2.6 x 2.45 m

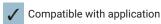
Canon Lithography Systems

Canon Photolithography equipment is designed to help provide exceptional quality, performance, and cost of ownership for your wafer imaging applications.

Canon FPA (Fine Pattern Aligner) Series Nanoimprint, i-line and Deep Ultraviolet (DUV) lithography systems are used in the fabrication and heterogeneous integration of high-tech devices including integrated circuits, hard disk read/write heads, microelectromechanical systems (MEMS) devices, image sensors, displays, power devices and light emitting diodes (LED).

LITHOGRAPHY PRODUCTS & TARGET APPLICATIONS

Lithography Products	Technology	Resolution	Lens Red. Field Size [mm]	Substrate Options [mm]	MRAM	Logic & MPU/GPU	Medical	HDD & SCM	Power & Automotive	Waveguide & RF	Advanced Packaging	Optics & Photonics	MEMS, Sensors & loT	PC & Mobile	5G & Data Centers	Wearables	AR/VR & Display	LED, MicroLED	Artificial Intelligence
FPA-1200NZ2C	Nanoimprint Lithography	≤15 nm	1:1 26 x 33	300	1	1	1	1	1	\	\	1	/	1	/	\	\	/	1
FPA-8000iW	i-line (365 nm) Stepper	≤ 0.8 µm	2:1 55 x 55	510 x 515			1				1	1	/	1	✓	1	/	/	1
FPA-3030i5a	i-line (365 nm) Stepper	≤ 350 nm	5:1 22 x 22	≤ 200			1	1	1	1	1	1	1	1	1	1		1	1
FPA-3030iWa	i-line (365 nm) Stepper	≤ 0.8 µm	2:1 52 x 52	≤ 200			1	1	1	1	1	1	1	1	1	1	1	1	1
FPA-3030EX6	KrF (248 nm) Stepper	≤ 150 nm	5:1 22 x 22	≤ 200			1	1	1	1	1	1	/	1	/	1		1	1
FPA-5520iV LF2	i-line (365 nm) Stepper	≤ 0.8 µm	2:1 54 x 68	300	1	1	1	1	1	1	1	1	1	1	/	1	1	1	1
FPA-5550iZ2	i-line (365 nm) Stepper	≤ 350 nm ≤ 280 nm (2/3 Ann.)	4:1 26 x 33	200 300	1	1	1	1	1	√	√	1	√	✓	✓	√	√	√	1
FPA-5510iX	i-line (365 nm) Stepper	≤ 0.5 µm	2:1 50 x 50	300			√	1	1	\	>	1	\	\	>	>	>	>	1
FPA-6300ES6a	KrF (248 nm) Scanner	≤ 100 nm ≤ 90 nm (2/3 Ann.)	4:1 26 x 33	200 300	✓	1	1	1	1	✓	✓	1	√	✓	√	√	√		1
FPA-6300ESW	KrF (248 nm) Scanner	≤ 130 nm	3.125:1 33 x 42.2	200 300			1	1	1	√	√	1	✓	✓	✓	√	√		1
MS-001	Overlay Metrology			300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	✓



All options may not be available on all models. Contact Canon for details.



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