



Company profile

PAMTEK CORPORATION

PAMTEK is dedicated to providing optimum automation system solution for your business.





Contents

Company

Mission statement

Company at a glance

Core competency

Organization

Partners and clientele

Product

Hardware/Test software

CM test system

CM handling system

Semiconductor handling system

Mission statement

Company



We provide optimal automation solutions for you.

Company at a glance

Company



Name	PAMTEK Corporation
CEO	Jae-Woong Kim
Founded	5 th October, 2003
Capital	0.2MII/USD
Employees	135
Location	HQ/1 st Factory Dongtan, Gyeonggi-do, South Korea Field Office Gumi, Gyeongsangbuk-do, South Korea
Facility Capacity	Dongtan : 1410m ² Gumi : 400m ²
Revenue	36MIL/USD (End of '20)
Business	CCM automation system Semiconductor automation system

Staff ratio

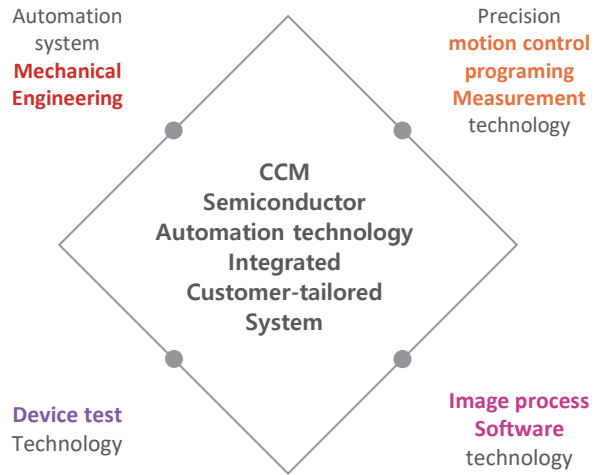


Sales ratio per business



Core competency

Company



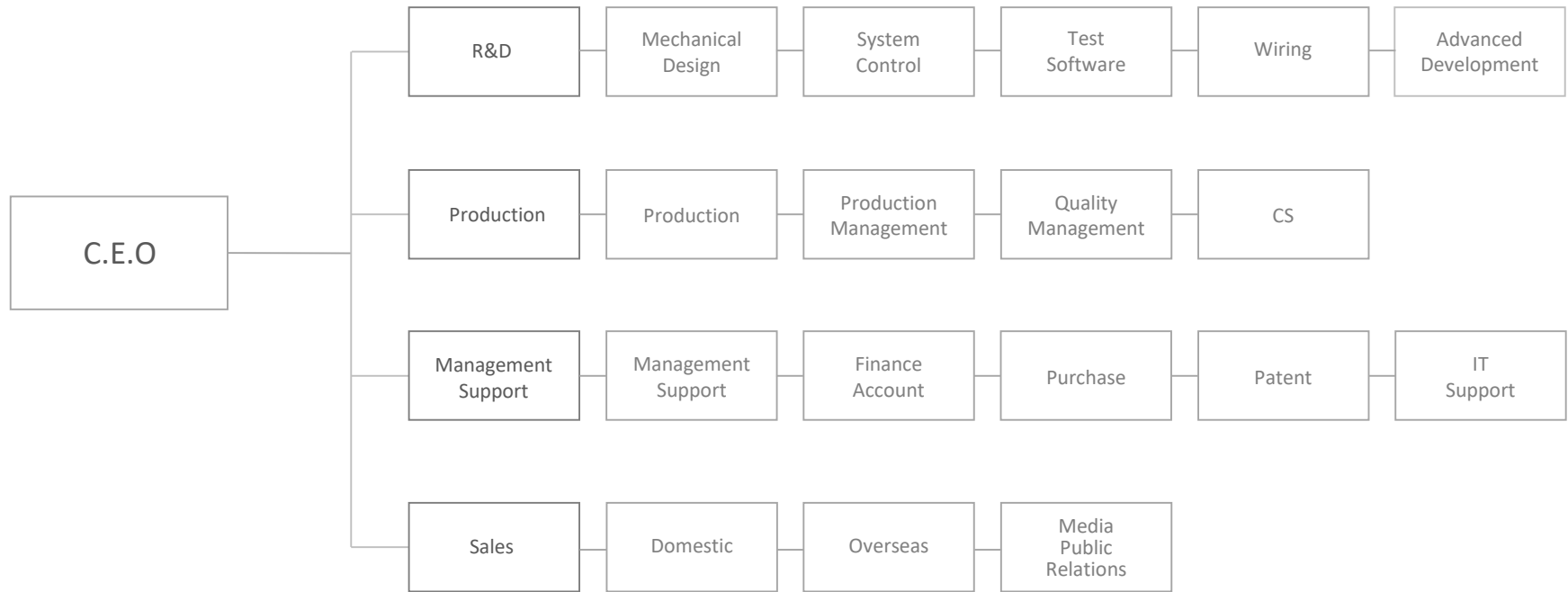
Programs :
Algorithm 7, SW 2, HW 3



Patents :
Related to Compact camera module test,
Semiconductor automation system
Total 15 patents

Organization

Company



Hardware/Test software

Product

H/W Specification

	MIU I	MIU II
Sensor Interface	MIPI 4 lane (1Gbps/lane) Parallel 16bit(CCIR601) HiSPI LVDS IIC/SPI : 1ea GPIO : 4ea	1ea of MIPI 8 lane (1.5Gbps/lane) 2ea of MIPI 4 lane (1.5Gbps/lane) HiSPI LVDS IIC/SPI : 2ea GPIO : 2ea
Buffer Memory	1GB DDR2 x 1ea	2GB DDR3 x 1ea
PC Interface	USB3.0 : 2.5Gbps	USB3.0 (Dual line) : 5Gbps
Sensor Power	CH1-5 : 0.9-3.0V, 500mA CH6 : Fixed (5V or 12V)	A/B Core : 0.9-2.8V, 1A A/B 3CH : 0.9-3.6V, 1A A/B OTP : 1.0-10.5V, 500mA
Sensor Clock	1ea of Programmable 1KHz-68KHz	2ea of Programmable Up to 68MHz (0.1MHz step)
Current measure	Standby : up to 1mA (0.2uA step) Dynamic : up to 500mA (0.1mA step)	Standby : up to 2mA (0.4uA step) Dynamic : up to 1A (0.2mA step)
Open/Short (Optional)	Up to 50pin	Up to 50pin
Built-in ISP	LPMC-500CV : No LPMC-600CV : Yes	Yes

Test Software

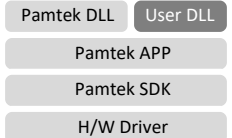
PCFT®

- Electrical
- Focus
- Image Quality

PCFT_SDK®

- Customers exclusive DLL
- Simultaneous use with Pamtek's test items

SDK architecture



Test Items

Electrical

- Short
- Open
- Leakage
- Current

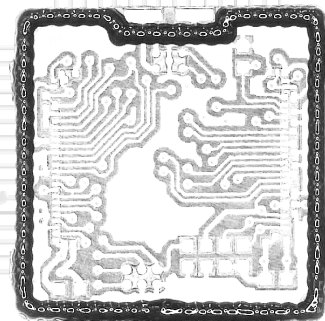
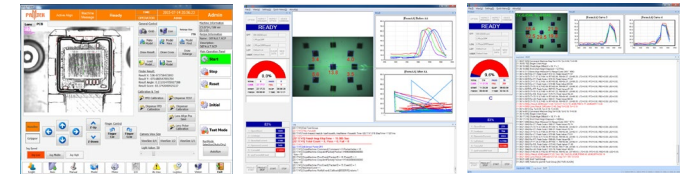
Image

Resolution

- Focus adjustment
- Infinite/Macro focus
- AF calibration
- OIS
- Active alignment

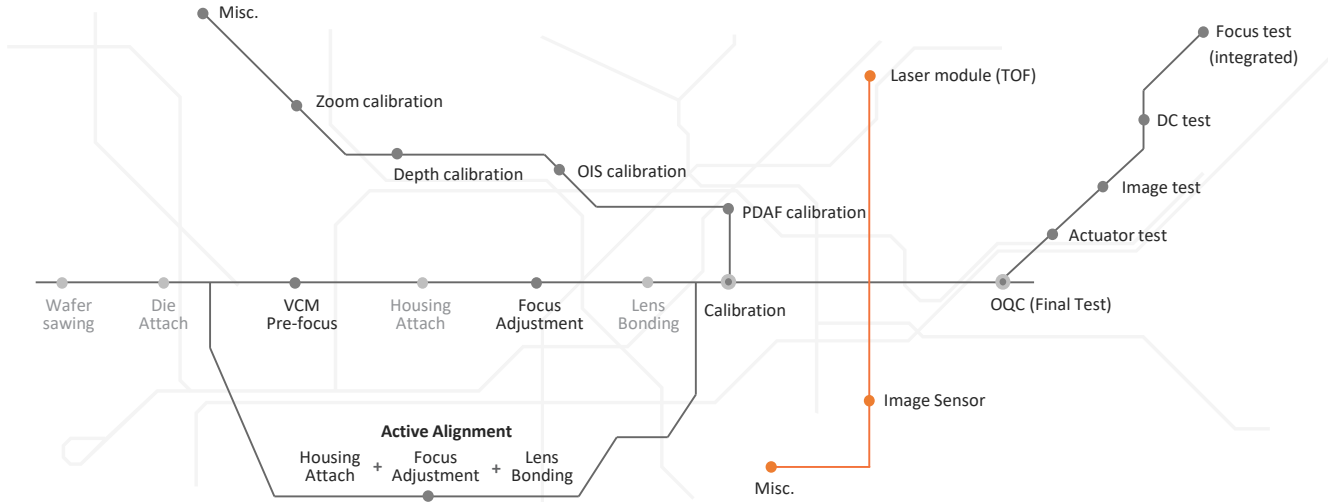
Image quality

- Defect
- Stain/Blemish
- Noise(FPN)
- LSC/Color cal
 - Shading(Lens/Color)
 - Calibration

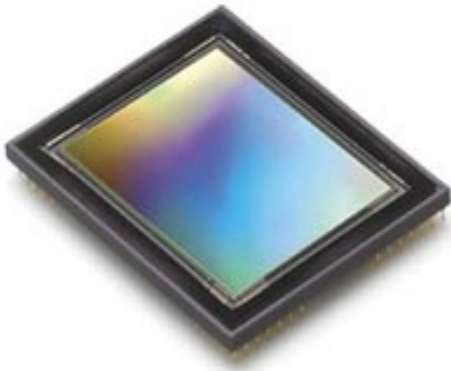


CM test system

Product

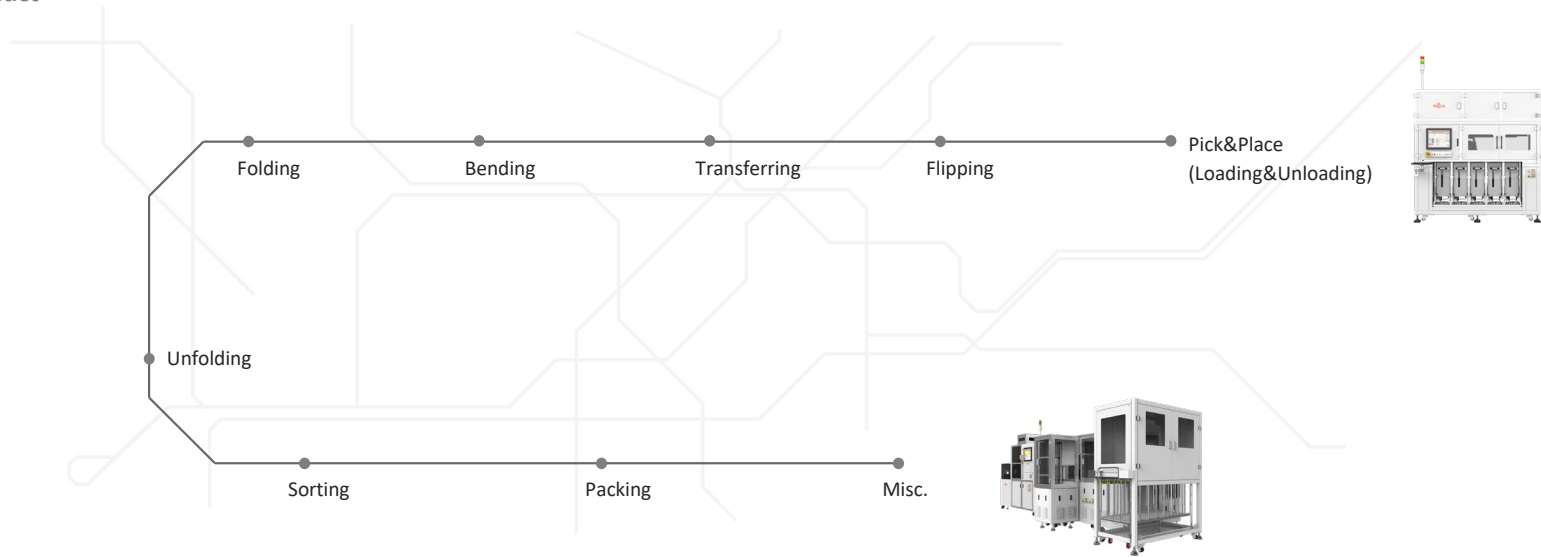


Test	Model	Features	Test items
VCM pre-focus	TERA-VCM	Full auto, 8sockets	Focus test (AFA & lens test)
Active alignment	PION-AA2	Full auto, 2sockets	Focus adjustment, Lens bonding
PDAF calibration	PION-CMF2	Full auto, 2sockets	PDAF calibration, Writing values to EEPROM
OIS calibration	Quantum-OIS4	Semi auto, 4sockets	OIS test
Depth calibration	TERA-HDC	Semi auto, 4sockets	Depth calibration
Zoom calibration	TERA-ZC	Full auto, 12sockets	Zoom/Color calibration, AF calibration(Macro, infinite)
Focus test(Final)	TERA-IMT	Semi auto, 6sockets	OS, Current, Image(white, dark), Focus(Macro, infinite)
DC test	Quantum-DC	Full auto, 4sockets	Open/short, leakage, standby/dynamic current test
Image test	Quantum-IT	Full auto, 8sockets	Image test
Actuator test	Quantum-Act	Full auto, 6sockets	Actuator test
TOF test	PION-TOFES/C/V	Semi auto, 4sockets	LIV test, Far/Near-field test, Calibration, Verification
Image sensor test	PION-ISIT	Full auto, on tray test	Image sensor image test



CM handling system

Product

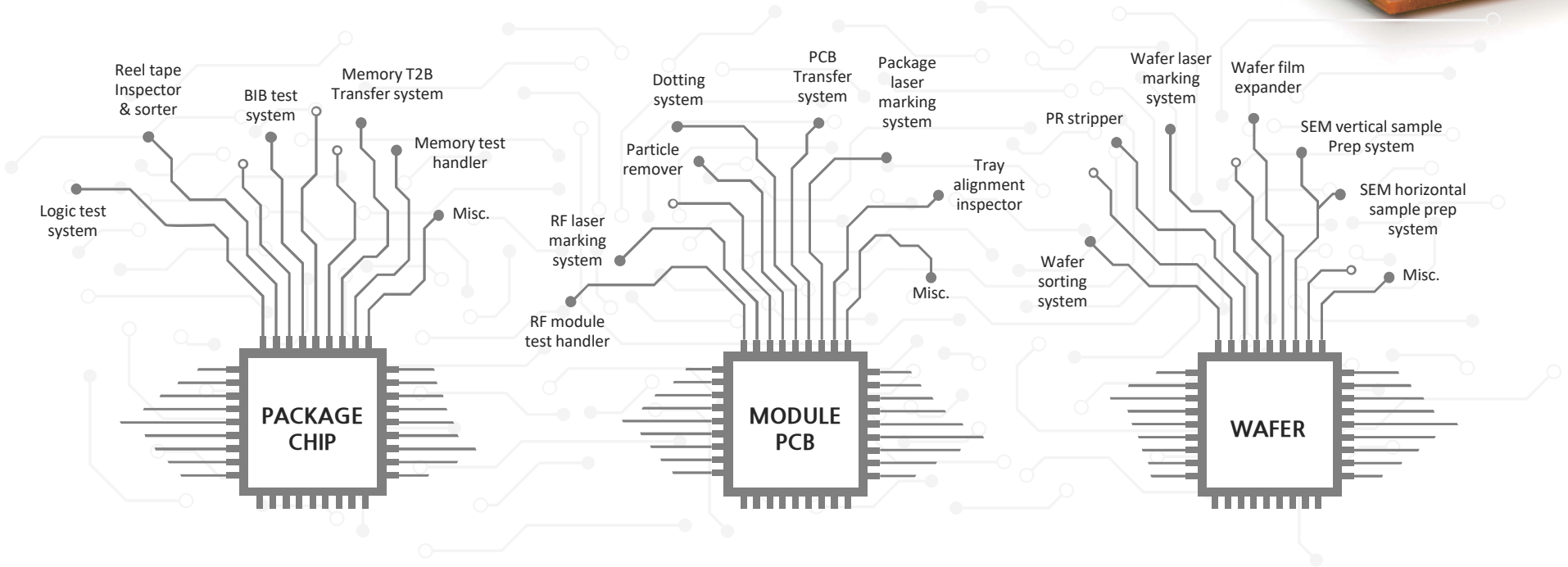
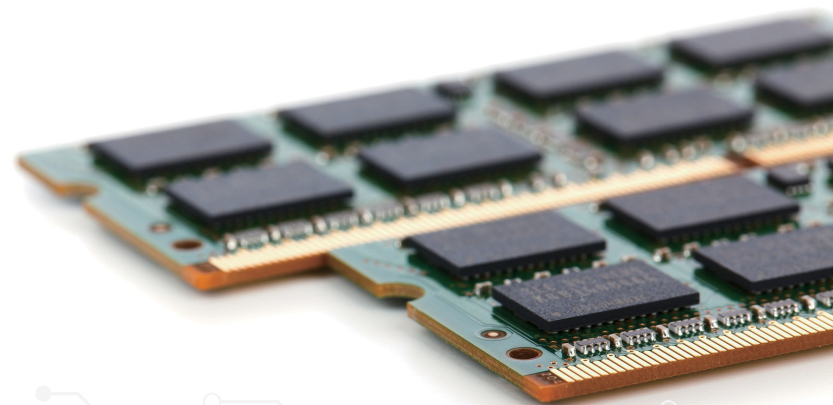


Function	Model	Target device	Operating items
Pick & Place	HAND-CMP/LMP	Camera / Laser module	Loading&unloading
	HAND-UNI	Camera / Laser module	Loading&unloading, Modular type design
	HAND-TUL	Tray	Tray unloading, Module transferring
Flipping	HAND-TF	Tray	Tray(To to bottom & bottom to top) flipping
Transferring	HAND-CMCT/CMCC	Camera module	Carrier to Tray / Tray to Carrier transferring
	HAND-LMTT	Laser module	Tray to Tray transferring
	HAND-ISTC/ISCC	Image sensor	Tray to Carrier / Carrier to Carrier transferring
Bending	HAND-B	Camera module FPCB	FPCB bending
Folding	HAND-FL	Camera module FPCB	FPCB folding/Pressing, Film attach
Unfolding	HAND-UFL	Camera module FPCB	FPCB unfolding/Pressing, Film detach
Sorting	HAND-CMS	Camera module	Sorting NG camera modules by type
Packing	HAND-TPI	Tray	Auto packing, Device barcoding
	HAND-BPI	Box	Box forming/packing



Semiconductor handling system

Product



Thank you

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