Asperio

Menuju tenaga kerja yang terampil melalui teknologi

PT. ARTIFA SUKSES PERSADA, atau yang disebut sebagai Asperio , bergerak di bidang penjualan alat didaktik dan alat peraga pendidikan industri 4.0. Kami menyediakan solusi alat pembelajaran bagi Pendidikan Vokasi, Perguruan tinggi dan pelaku Industri yang ingin mencetak sumber daya manusia yang siap dan terampil menggunakan teknologi Industri 4.0 demi tercapainya Indonesia Maju.

AsperioDOBOT   AsperioLabs   AsperioSim

Asperio**DOBOT**

Asperio DOBOT merupakan lini produk kerjasama Asperio dengan DOBOT berupa robot yang di tujukan untuk dapat digunakan di dua lingkungan: Edukasi dan Industri. Dobot memiliki fleksibilitas untuk dimanfaatkan sebagai alat ajar maupun sebagai otomasi pabrik.

Dobot Magician Lite

SIPLah blibli   SASP-0012-00003

Spesifikasi Dobot Magician Lite

Degree of Freedom	4
Maximum Load	250g
Maximum reach	340mm
Repeatability	±0.2mm
Voltage	100V-240V AC,50/60 Hz
Power Input	12V ∼ 5A DC
Working Environment	-5°C∼45°C
Power	60W Max
Communication	USB Virtual Serial Port / Serial Port
Software	DobotStudio/DobotBlock
Weight	2.4KG
Rear Arm / Forearm	150mm
Base Size	146mm×146mm

Axis Motion

Axis 1- Base	-135° to +135°
Axis 2- Rear Arm	-5° to +80°
Axis 3- Fore Arm	-10° to +85°
Axis 4- End Tools	-145° to +145°

End Tools

Suction Cup	Built-in air pump drive works under negative pressure, with suction cup diameter of 20mm.
Soft Gripper	Built-in air pump drive works under positive and negative pressure, with maximum opening and closing distance of 50mm.
Pen Holder	Pen Diameter: 8-12 mm.

Dobot Magician (Education and Basic)

SIPLah blibli   Education   SASP-0012-00002
Basic   SASP-0012-00001

Spesifikasi Dobot Magician

Number of Axis	4
Payload	500g
Max. Reach	320mm
Position Repeatability(Control)	0.2 mm
Communication	USB / WIFI / Bluetooth
Power Supply	100 V - 240 V , 50/60 HZ
Power In	12 V / 6.5A DC
Consumption	60W Max
Working Temperature	-10°C - 60°C

Axis Motion

Axis	Range	Max Speed
Joint 1 base	-90° to + 90°	320° / s
Joint 2 rear arm	0° to +85°	320° / s
Joint 3 fore arm	-10° to +95°	320° / s
Joint 4 rotation servo	-90° to +90°	480° / s

Education Accessories

Accessories	Kraft Linner paper
	Bluetooth Module
	Wifi Module
Joystick Kit	USB Connector Host

End Tools

3D Printer Kit	Maximum Print Size (L × W × H)	150 mm ×150 mm × 150mm (M/
	3D printing material	PLA
	Resolution	0.1mm
Laser (Education)	Power Consumption	500mw
	Type	405nm (Blue laser)
	Power	12V , TTL trigger (With PWM D
Pen Holder	Pen Diameter	10mm
Vacuum Suction Cup	Suction Cup Diameter	20mm
	Pressure	-35 Kpa
Gripper	Range	27.5mm
	Drive Type	Pneumatic
	Force	8N

🏶 Arduino Kit

🏶 Controller

Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7V-12V
Input Voltage (range)	6V-20V
Digital I/O Pins	54
Analog Input Pins	16 I/O
DC Current per I/O Pin	50 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16MHz

🏶 End Tools

Button Module	Keycap Color	Red, Green, Blue
	Supply Voltage	3.3V - 5V
	Data type	Digital
Joystick	Power Requirements	+3.3-5V
	Analog output	2 axes (X, Y)
	Number Key Output	1 (Z-Axis)
LED Module	Color	Red, Green, Blue
	Voltage	3.3V-5V
Voice Module	Local Speech Recognition	
	Working Voltage	3.3-5V
	Built-in microphone	omnidirectional,
	SNR: 55d, sensitivity min = -43dB,	
	typical = -40, max = -37dB	

🏶 Pixy CUMcam5

Processor	NXP LPC4330, 204MHz, dual-core
Image Sensor	Omnivision OV9715, 1/4", 1280x800
Lens Type	75 degrees horizontal, 47 degrees vertical standard M12 (several different types available)
Power Consumption	140 mA
Power Input	USB Input (5V) or unregulated input (6V to 10V)
RAM	264K bytes
Flash	1M bytes
Available Data Outputs	UART serial, SPI, I2C, USB, digital, analog
Size	2.1" x 1.75" x 1.4"

🏶 Conveyor Belt

🏶 Spesifikasi Conveyor Belt

Payload	500 g
Effective delivering distance	600 mm
Maximum speed	120 mm/s
Maximum acceleration	1100 mm/s²
Net Weight	4.2 kg
Weight (including packing)	5.34 kg
Dimension	700 mm×215 mm×60 mm

🏶 Distance measuring sensor unit

Measurable range	20 ~ 150 mm
Signal	Analog Output
Input	4.5 - 5.5 V

🏶 Color recognizing sensor unit

Input	3~5 V
Detectable	non-glowing object
White LED embedded	on/off controllable

🏶 Ai-Starter

🏶 Spesifikasi Ai-Starter

Operating Voltage	7.4V
Control Board	DuDuino Mega2560 (compatible with Arduino Mega2560)
MPU	ATmega2560
Battery	18650 Li-ion rechargeable (Not Included)
Ultrasonic Measurement Range	30mm-1000mm
AI-Starter Size	195mm x 172mm x 79mm
AI-Starter Weight	810g
Maximum Load	500g
Tire Diameter	67mm
Operating Environment	0℃-40℃
Programming Software	Arduino IDE, Mixly
Communication Interface	USB communication / Serial communication
Expansion Interface	4PIN general I / O interface x 2
Sensor	Ultrasonic sensor x 3 / Color sensor x 2 / Infrared sensor / Geomagnetic sensor x 1 / Light sensor x 1

🏶 Motor Parameters

Reduction ratio	48:1
Voltage	7V
No-load current	150mA
Stall current	150mA
Maximum rotate speed	200r/m
Encoder resolution ratio	585pulse/r

Vision Kit

⚜ Spesifikasi Color Industrial Camera

Sensor Size	1/2.5"CMOS
Sensor Type	AR0521
Effective Pixel	5 Million
Hue	Color
Pixel Size	2.2×2.2um
Frame Rate / Resolution	31 @2592×1944
SNR	>40dB
Dynamic range	>60dB
Shutter Type	Curtain Exposure
Time of exposure Bayer	16μs-1sec
Other Format	28μs-1sec
Exposure control	Auto/Manual
Size	29mm×29mm×30mm
Data Interface	USB3.0
Data Format	Mono 8/10/12, Bayer GR 8/10/10p/12/12p.
Lens Mount	C-Mount

⚜ Six Megapixel 12mm Fixed Focus Lens

Focus		12mm
Maximum Image Size	1/1.8 "	(φ9mm)
Aperture		F2.8-F16
Control		
	Aperture	Manual
	Focus Point	Manual
Visual Angle		
D		41.2°
H	1/1.8 "	34.4°
V		23.4°
Optical Distortion		-0.38%
Flange Back Focus		17.526mm
Recent Shooting Distance		0.06m
Mount		C-Mount
Filter Thread		M27×0.5
Size		φ29×35.36mm

Sliding Rail

⚜ Spesifikasi Sliding Rail

Payload	5 kg
Effective Travel Distance	1000 mm
Maximum Speed	150 mm/s
Maximum Acceleration	150 mm/s²
Repeat positioning accuracy	0.01 mm
Absolute positioning accuracy	0.25 mm
Net Weight	4.7 KG
Weight (including packing)	7.23 KG
Dimension(L × W × H)	1320mm × 120mm × 55mm

Dobot M1

⚜ Spesifikasi Dobot M1

		Mechanical limitation	Software limitation
Reach	400 mm		
Payload	1.5 kg		
Maximum magnitude	Type		
	Rear arm	-90° - 90°	-85°- 85°
	Forearm	-140°-140°	-135°- 135°
	Z-axis screw	0mm - 250mm	10mm- 235mm
	End-effector rotation unlimited	-360°	- 360°
Maximum speed	Joint speed of Forearm and Rear Arm		180°/s
	Resultant speed of the Forearm and Rear Arm		2000 mm/s
	Speed of Zaxis		1000 mm/s
Repeatability	0.02 mm		
Collaborative function	support sensor-free collision detection and teaching and playback		
Input Requirements of Power Adapter	100 -240 V, 50/60 Hz		
Communication interface	Ethernet, RS-232C		
I/O	22 digital outputs, 24 digital inputs, 6 ADC inputs		
Software	M1 Studio		
System	Linux		

Dobot Magician Pro (MG400)

SIPLah biloli SASP-0012-00031

Spesifikasi Dobot Magician Pro (MG400)

Name	DOBOT MG400
Model	DT-MG400-4R075-01
Number of Axes	4
Payload	500 g（Max. 750 g）
Max. Reach	440 mm
Repeatability	±0.05 mm
Power	100~240 V AC, 50/60 Hz
Rated Voltage	48V
Rated Power	150W
Communication Mode	TCP/IP, Modbus TCP
Installation	Desktop
Weight	8 kg
Base Size	190 mm × 190 mm
Environment	0 ℃~40 ℃
Software	DobotStudio 2020, SCStudio

Joint Maximum Speed

J1	300 °/s
J2	300 °/s
J3	300 °/s
J4	300 °/s

Joint Range

J1	±160°
J2	-25 ° ~ 85 °
J3	-25 ° ~ 105 °
J4	-360 ° ~ 360 °

Dobot CR Series

SIPLah biloli

CR 3	SASP-0012-00024
CR 5	SASP-0012-00023

Spesifikasi Dobot CR Series

	DOBOT CR3	DOBOT CR5	DOBOT CR10	DOBOT CR16
Weight	16.5kg	25kg	40kg	40kg
Maximum Payload	3kg	5kg	10kg	16kg
Max Reach	795mm	1096mm	1525mm	1223mm
Rated Voltage	DC48V	DC48V	DC48V	DC48V
Maximum Speed of TCP	2m/s	3m/s	4m/s	3m/s
Joint Ranges				
J1	±360°	±360°	±360°	±360°
J2	±360°	±360°	±360°	±360°
J3	±155°	±160°	±160°	±160°
J4	±360°	±360°	±360°	±360°
J5	±360°	±360°	±360°	±360°
J6	±360°	±360°	±360°	±360°
Maximum Speed of Joints				
J1/J2	180°/s	180°/s	120°/s	120°/s
J3/J4/J5/J6	180°/s	180°/s	180°/s	180°/s
End-Effector I/O Interface				
DI/DO/AI	2	2	2	2
AO	0	0	0	0
Communication Interface				
Communication	RS485	RS485	RS485	RS485
Controller I/O				
DI	16	16	16	16
DO/DI	16	16	16	16
AI/AO	2	2	2	2
ABZ Encoder	1	1	1	1
Repeatability	±0.02mm	±0.02mm	±0.03mm	±0.03mm
Communication	TCP/IP, Modbus, EtherCAT,WIFI			
IP Rating	IP54	IP54	IP54	IP54
Temperature	0~45°	0~45°	0~45°	0~45°
Power	120W	150W	350W	350W
Materials	Aluminum alloy, ABS plastic			

Asperio**Sim**

Asperio**Sim** merupakan lini produk simulator yang ditujukan untuk berbagai macam pelatihan keterampilan vokasi di beragam industri. Keterampilan yang dilatih umumnya merupakan kemampuan motorik seperti mengemudi alat berat, mengemudi mobil, dan mengecat hingga maupu kecerdasan intelektual seperti menilai kerusakan otomotif, dan lainnya

Simulator Alat Berat

Wheel Loader Simulator	Hydraulic Excavator Simulator	Bulldozer Simulator	Mobile Crane Simulator	Tower Crane Simulator	Backhoe Loader Simulator	Skid Steer Loader Simulator

Wheeled Material Handler Simulator	Off-Highway Truck Simulator	Mining Truck Simulator	Harvester Simulator	Forwarder Simulator	Froklift Simulator	Reach Lift Truck Simulator

	Simulator Lite	Simulator Semi-PRO	Simulator PRO
Basis Simulator	• Local Office Chair • Local Office Desk • Equipment Simulator Controls • High Performance PC • Software License	• Asperio Adjustable Chair • Asperio Adjustable Desk • Equipment Simulator Controls • High Performance PC • Software License	• Asperio Heavy Equipment Chair • AsperioSim Heavy Equipment Desk • Real Equipment Simulator Control • High Performance PC • Software License
Opsi konfigurasi jumlah layar	• 1 (Hanya Tampilan Depan) • 3 (Tampilan Depan, Kanan, dan Kiri) • 4 (Tampilan Depan, Belakang) (Tampilan Kiri, Kanan)	• 1 (Hanya Tampilan Depan) • 3 (Tampilan Depan, Kanan, dan Kiri) • 4 (Tampilan Depan, Belakang) (Tampilan Kiri, Kanan)	• 1 (Hanya Tampilan Depan) • 3 (Tampilan Depan, Kanan, dan Kiri) • 4 (Tampilan Depan, Belakang) (Tampilan Kiri, Kanan)
Model Alat Berat	• Semua Simulator	• Semua Simulator	• Semua Simulator

Spray Painting Simulator

Spesifikasi:
1. Perangkat: Laptop
2. Layar : Layar HD 15,6" (1920x1080)
3. Prosesor : Intel i5 Gen Min 9
4. Memori RAM: 16GB
5. Grafik : Geforce 1660ti
6. Port I/O: HDMI, Port USB 3.0 & 2.0
7. Periperhal: Pistol Semprot SimSpray
8. Perangkat VR: HTC VIVE HMD
9. OS : Windows 10 Home
10. Dimensi Kasus: 84x51x31 cm
11. Berat semua: 18Kg

Fiture:
1. Skor & Umpan Balik tima nyata
2. Kurikulum Terintegrasi
3. Peta Cakupan
4. Cat + Cacat Realistis
5. Analisis Kinerja
6. Pengaturan Pasang & Mainkan

Safety Driving Simulator

Spesifikasi:
1. Perangkat: Komputer Desktop
2. Layar Depan : 3 tampilan monitor
3. layar Belakang : 1 tampilan monitor
4. Prosesor : Intel i7 Gen Min 9
5. Memori RAM: 16GB
6. Grafik : Geforce RTX 3060 12Gb
7. Port I/O: HDMI, Display Port, Port USB 3.0 & 2.0
8. Usb : Driveing Force, Shifter
9.Perangkat controller : Logitech
10. OS : Windows 10 Home

Fiture:
1. Berjalan ZigZag dengan cone dan jalur melingkar angka 8
2.Patuh Rambu-rambu
3. Parkir Mundur, pararel dan parkir maju
4.Tanjakan
5. Jalan raya keramaian base replika mobil

Welding Simulator

1. Stinger tongkat SMAW yang dapat ditarik, pistol GMAW/ FCAW dan obor GTAW TIG, logam pengisi, dan perangkat pedal kaki adaptif secara realistis mensimulasikan tampilan, nuansa, dan aksi senjata dan obor yang sebenarnya.
2. Berlatih 5G dan 6G datar, horizontal, vertikal, dan overhead pada baja ringan, aluminium, baja tahan karat
3. Genangan las yang sangat realistis secara visual dan terdengar responsif terhadap perilaku operator, membantu tukang las belajar kapan harus menyesuaikan teknik pengelasan.
4. Melacak dan menilai parameter las utama termasuk sudut kerja, sudut perjalanan, kecepatan perjalanan, jarak dan posisi.
5. Tes tikungan virtual memberikan hasil secara instan dan mengungkapkan apa yang menyebabkan lasan lolos atau gagal
6. Mode Demo, Replay & Pelajaran Mode membantu instruktur dan tukang las mengidentifikasi apa yang salah atau baik
7. Mensimulasikan percikan api, terak, penggilingan dan pendinginan las
8. 6 lingkungan pengelasan yang berbeda

Asperio**Labs**

Asperio**Labs** merupakan lini produk peralatan didaktik yang ditujukan untuk digunakan sebagai alat mengajar pada laboratorium dan kelas yang ingin mempelajari tentang IOT, Otomasi, dan banyak lagi. Produk AsperioLabs datang dengan modul ajar serta garansi penggunaan selama 1 tahun yang didukung oleh support domestik.

PLC & HMI Training kit

Spesifikasi Modul ajar

1. OMRON PLC CP2E Series (18 Input 12 Output)
2. HMI 7 Inch TFT Color W/ Ethernet
3. Standart box case size and robust design
4. Acrylic control panel
5. Toggle switch, indicatorlamp
6. Safety banana plug
7. Terminal I/O D-sub 25 pin
8. Can change other brand

Robot arm and e-label application Kit

Spesifikasi Modul ajar

1. Training platform (1150*780 *350mm)
2. Magician robot
3. Transplanting module
4. Electrical control system (Including Siemens PLC, RFID, Sensor, Main power module and so on)
5. Conveyor (610*221*165 mm)
6. Product warehouse
7. RFID read-write module
8. Product feeding module

Smart Factory Simulation Kit

Spesifikasi Modul ajar

1. Training platform (2450*1000*800mm)
2. Integrasi Mini Arm Robot
3. Camera Vision Sorting
4. Mini Conveyor Belt
5. Integrasi Mini Arm Robot
6. Mini Conveyor Belt
7. Industrial Inspection Camera
8. Integrasi Panel Control
9. Integrasi Mobile Robot
10. PC server IoT

Machine Vision Basics Teaching Kit

Spesifikasi Modul ajar

1. Training platform (1220*780*140mm)
2. MG400 robot
3. Machine vision system
4. Electrical control system
- Siemens PLC,
- Remote IO module
- Main power module
- Sensor
- Computer
- Other Accessories

5. Conveyor (630*100*142mm)
6. Phone Screen Warehouse
7. Analog detection module
8. Analog assembly module
9. Automatic feeding module
10. Tool library

PLC Controlled Pneumatic Trainer Kit (Single Side)

SIPLah bilbli SASP-0012-00021

Spesifikasi Modul ajar

1. Pelatihan kontrol dasar pneumatik
2. Simulasi aplikasi teknik kontrol pneumatik
3. Pengenalan part-part pneumatik
4. Power supply: three-phase five-wire AC 380 V ± 10% 50 Hz
5. Dimension (L×W×H): 1420×1040×1670 (mm)
6. The apparent power of machine consumption: ≤ 1.5 kVA

PLC Controlled Hydraulic Trainer Kit

SIPLah bilbli SASP-0012-00022

Spesifikasi Modul ajar

1. Pelatihan kontrol dasar pneumatik
2. Simulasi aplikasi teknik kontrol pneumatik
3. Pengenalan part-part pneumatik
4. Pelatihan kontrol dasar Hydraulic
5. Simulasi aplikasi teknik kontrol Hydraulic
6. Pengenalan part-part Hydraulic
7. Power supply: three-phase five-wire AC 380 V ± 10% 50 Hz
8. Dimension (L×W×H): 1420×1040×1670 (mm)
9. The apparent power of machine consumption: ≤ 1.5 kVA

Smart Building Integration Teaching Kit

Spesifikasi Modul ajar

1. Intelligent building system integration
2. Internet of things development
3. Power input: single-phase 3-line/ AC 220V/50Hz
4. Power consumption: ≤ 100W (without computer, computer ≤300W)
5. Dimensions: 2040mm×720mm×1760mm

Automatic Production Line Training Kit

Spesifikasi Modul ajar

1. PLC design and application
2. Sensor technology and application
3. Pneumatic control technology
4. Motion control system
5. Configuration monitoring and HMI technology
6. Mechanical structure training technology
7. Fault detection technology skills training
8. Network communication technology and PROFIBUS bus technology
9. Manipulator transport system control

Our Customer 🇮🇩

Simulator Alat berat di UPTD BLKK Kolaka
Sulawesi Tenggara

Smart Factory Simulation Kit di Akademi Komunitas
Toyota Indonesia (AKTI) Karawang Barat

Asperio Dobot di BBPLK Bekasi
Kota Bekasi

Forklift Simulator di Toyota Learning Center (TLC)
Karawang Barat

⬢ Produk kami digunakan di berbagai institusi pendidikan

⬢ Produk kami digunakan di berbagai industri

PURNA JUAL PRODUK

Produk yang kami tawarkan memiliki garansi selama 1 tahun untuk spare part dan ketersediaan stoknya.

Mendapatkan User Guide/Instruction Manual dalam Bahasa Inggris atau Bahasa Indonesia.

Client akan mendapatkan pelatihan online GRATIS selama masa garansi.

Mendapatkan pelayanan konsultasi permasalahan atau improvisasi produk secara GRATIS bahkan setelah garansi berakhir.

Ketersediaan Jobsheet Praktikum untuk memudahkan dalam proses Belajar-Mengajar

Membangun Komunitas Dobot di Indonesia

Menjalin kolaborasi atau kerjasama kegiatan Workshop Internal maupun Eksternal

Asperio

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Asperio**DOBOT** Asperio**Labs** Asperio**Sim**