

ARCUS

Solution Beyond Your Dreams

Arcus Automation is a turnkey solution provider in machine vision system sensors safety products and control panels for automotive and marine sectors.



WHO WE ARE

We Arcus inception in year 2010 as a startup.

Arcus team with 13+ years of hard experience as a solution provider in industrial, factory and marine automation. As technology and market finest solution provider and provides applications with experienced and cost effective solutions. Our goal is to exceed the expectations of every client by offering outstanding customer service, increased flexibility and greater value.

Vision

We strive to deliver optimistic solutions to our clientele, providing diverse engineering solutions with our expertise and point of view to our customer with hard work and passion.

Mission

Our mission keeps us engrossed and responsible. our vision energizes us and our values command how we succeed. Your experience our motto. We are diverse to understand best. we invite you to explore our solutions.

COGNEX

MACHINE VISION

Cognex is the world's most trusted machine vision company. We have the people, experience, and knowledge to ensure the machine vision technologies you deploy do exactly the job you need to Make It Right for your customers.

Major Categories of Machine Vision Applications are;

- Guidance
- Identification
- Gauging
- Inspection

Cognex machine vision sensors, systems and software detect product defects, monitor production lines, guide assembly robots, and track, sort, and identify parts. With nearly two million machine vision systems installed worldwide, manufacturers rely on Cognex's technology to:

- Increase throughput while optimizing quality
- Eliminate errors and reduce costly rework
- Maximize efficiency by reducing cost
- Ensure traceability across the supply chain

HANDHELD BARCODE READERS



DataMan 8700DX

Offer cutting-edge performance and operator feedback on the toughest DPM and label-based codes while withstanding harsh oils, dirt and water.



DataMan 8050 Series

Decodes well-marked 1D, 2D, and DPM codes in harsh industrial environments.



DataMan 8700DQ

Decodes well-marked DPM codes with IP67-rated housing and an OLED display screen.



DataMan 475V Series Inline Verifier

Grades 1D, 2D and DPM codes from a fixed position on the production line.



COGNEX

FIXED-MOUNT BARCODE READERS

DataMan 260 Series

For 1D linear barcodes, higher-density 2D matrix codes, or direct part mark (DPM) codes, the DataMan 150/260 series fixed-mount, image-based barcode readers deliver unprecedented performance, flexibility and ease-of-use.



POWER 4X	RESOLUTION 1.6 MP	SYMBOLOLOGIES		FEATURES		CONNECTIVITY		

DataMan 280 Series

Premium decoding technology in a compact form factor.



POWER 4X	RESOLUTION 1.6 MP	SYMBOLOLOGIES		FEATURES		CONNECTIVITY		

DataMan 370 Series

Delivers superior read performance for the broadest range of application, including multi-code, multi-symbolology applications.



POWER 5X	RESOLUTION 5 MP	CONNECTIVITY		FEATURES		SYMBOLOLOGIES	

DataMan 470 Series

Premium reader with multi-core processing power and advanced imaging technology for complex, high-throughput 1D and 2D code applications.



POWER 7.5X	RESOLUTION 5 MP	CONNECTIVITY		FEATURES		SYMBOLOLOGIES	

Cognex DataMan fixed-mount barcode readers offer unmatched 1D and 2D code reading performance. Advanced technology, processing power, modularity, and ease of use make DataMan barcode readers the ideal solution for challenging manufacturing and logistics applications.



COGNEX

VISION SENSORS AND SYSTEMS

In-Sight 2000 Series

Provides easy and reliable error-proofing inspections thanks to powerful vision tools, modular lighting and option, and an easy-to-use setup environment. Reducing defects and increasing yield helps environment operations and increase profitability.

POWER	RESOLUTION	FEATURES	
			
			

In-Sight 2800 Series

Combines edge learning technology with traditional rule-based vision tools to solve a range of error-proofing tasks. From simple presence/absence detection to more advanced categorization and sorting problems, this fully integrated vision system offers an easy-to-use solution for automating inspections.

POWER	RESOLUTION	FEATURES	
			

In-Sight 7000 Series

Combines modular integrated lighting and optics for optimal image formation with powerful vision tools and ease of use in a compact footprint for fast, accurate inspection on space-constrained production lines.

POWER	RESOLUTION	FEATURES	
			
			

In-Sight 8000 Series

Ultra-compact standalone vision systems deliver industry-leading vision-tool performance in the micro form factor of a typical GigE vision camera.

POWER	RESOLUTION	FEATURES	
			
			

COGNEX

VISION SENSORS AND SYSTEMS

In-Sight 9000 Series

Rugged, ultra-high-resolution standalone vision systems equipped with a full suite of In-Sight vision tools solve high accuracy part location, measurements. Line scan and area scan image acquisition options are available for imaging large continuously moving or stationary objects.

POWER



RESOLUTION

Up to 1.6MP

FEATURES



In-Sight D900 Series

The In-Sight D900 vision system leverages advanced AI-based tools to solve challenging OCR, assembly verification, and defect detection tasks. Processing takes place on-device, which eliminates the need for a PC, simplifying application deployment and bringing the power of deep learning to non-programmers.

POWER



RESOLUTION

Up to 5MP

FEATURES



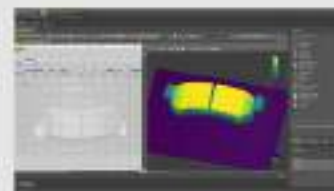
In-Sight 3D-L4000 Series

A unique vision system combining 3D laser displacement technology with a high-performance smart camera allowing factory engineers to quickly, accurately, and cost effectively solve a wide variety of inspections thanks to a comprehensive suite of true 3D vision tools, easy setup, and spec-free blue laser optics.

3D RESOLUTION

2000 points

FEATURES



In-Sight 3D-A5000 Series

Cognex's 3D-A5000 series is an area scan 3D camera designed to capture high-resolution 3D images. It features 3D LightBurst technology which rapidly acquires images to maximize throughput. High-resolution 3D images combined with industry-leading Cognex 3D vision tools enable reliable and accurate solutions to applications such as assembly verification, in-line measurement, and robotic guidance.

3D RESOLUTION

1.5 million points

FEATURES



COGNEX

VISIONPRO

VisionPro® is a PC-based software combining best-in-class vision technologies in a graphical programming environment. Powerful enough to automate any vision task, VisionPro leverages extensive tool prototyping to enable rapid deployment of highly- customizable applications. With a future-oriented design that includes rule-based and hybrid smart tools, plus edge learning and deep learning capabilities, this innovative software makes it easy to configure jobs and generate inspection results, fast.



IN-SIGHT VISION SOFTWARE

All In-Sight 2D products, from vision sensors to vision systems, are configured with the powerful, yet intuitive In-Sight Vision Suite. The EasyBuilder development environment walks users step-by-step through the setup process, while the spreadsheet view provides additional power and flexibility for more complex applications.

In-Sight Vision Suite also offers the widest range of built-in communication protocols that interface directly to any PLC, robot, or HMI on the factory network.



Proven, reliable vision tools in an integrated platform
With VisionPro, users can access a robust library of pattern matching, blob, caliper, line location, image filtering, OCR, OCV, smart and deep learning vision tools, as well as 1D and 2D barcode reading, to perform a wide range of functions from inspection to identification and measurement. VisionPro software is fully integrated with extensive .NET C# and C++ class libraries and user controls.

PULS



PULS is a German based company and specialist in mfg of Din Rail power supplies. Their Products are smaller size, lighter weight with higher efficiency which minimizes energy losses in the form of heats. And it is one of the main reasons why Puls product is always offer highest reliability & robustness with high MTBF figure.

CORE FEATURES OF PULS

- No1 Din rail power supply Manufacturing Company.
- High Efficiency (Up to 95.6%)
- Small Size & Light Weight
- Heat Less & Fan less
- Less energy loss
- High reliability & Long Life
- 3years Warranty with 100% load

PULS

1-PHASE DIN RAIL POWER SUPPLIES

PULS offers a wide variety of efficient, compact and reliable DIN rail power supplies for 1-phase systems. With a PULS solution you will experience three main benefits:

- Reduce system costs thanks to very high efficiency values.
- Increase process uptime due to high MTBF (Mean Time Between Failures) and superior lifetime values.
- Save space in your system by using power supplies with the smallest dimensions



3-PHASE DIN RAIL POWER SUPPLIES

With its highly efficient and very compact DIN rail power supplies, PULS provides the best solutions for your 3-phase systems.

Our AC/DC converters for 3-phase applications are available with output voltages of 12 V, 24 V, 36 V, 48 V and 72 V.

Some of our 3-phase DIN rail power supplies are also specified for 2-phase operation.



DC-UPS

Efficient, compact and reliable DC-UPS from PULS ensure highest system availability. Our uninterruptible power supplies are available with capacitor storage or VRLA batteries.

The DC-UPS with integrated electrochemical double layer capacitors are fully maintenance free and guarantee an uninterrupted power supply for periods measured in seconds.

The DC-UPS with external VRLA batteries feature the PULS' 1-Battery-Concept: This means each battery is individually charged and monitored, which avoids the need for matched batteries and ensures longest battery life.



DC/DC CONVERTERS

Efficient and reliable PULS DC/DC converters provide regulated DC voltages of 12 V, 24 V or 48 V.

An efficient DC/DC converter can do more than just adjust voltages. It can contribute to system reliability and increase endurance in the event of voltage fluctuations.

The compact design allows installation in standard decentralized on-machine cabinets and saves plenty of space on the DIN-rail.



REDUNDANCY MODULES

PULS' redundancy modules are available with efficient MOSFET or economically priced diode technology.

The modules secure highest reliability and availability in 1+1 and n+1 redundant systems.



BATTERY MODULES FOR DC-UPS

Battery modules use maintenance-free VRLA batteries (valve regulated lead-acid) and are charged at PULS before delivery.

Battery modules can be ordered with (UZK) or without a battery (UZO). All battery modules from PULS support the I-Battery-Concept. If you are searching for a battery replacement please click [here](#).

The 24 V battery modules are equipped with a center-tap, which protects against over-current, and with an integrated temperature sensor.



ELECTRONIC CIRCUIT BREAKERS

The PISA multi-channel electronic circuit breakers with DIN rail mounting are designed for current distribution and protection of DC 24 V load circuits.

The PISA electronic circuit breakers distribute the current of large power sources to multiple lower current output channels and therefore allow for smaller wires to be used.

In the event of a fault, the electronic circuit breaker reliably switches off the channels and protects the loads.



BUFFER MODULES

Buffer modules with electrolytic capacitors work similarly to a DC-UPS and can bridge power failures in the 24 V or 48 V mains for periods measured in milliseconds.

In buffer mode, the output voltage is regulated and the change from normal to buffer mode occurs without interruptions. All modules are protected against overload and short-circuit and have a wide operating temperature range.





FIELD POWER SUPPLIES

The decentralized FIEPOS field power supplies with high protection classes IP54, IP65 or IP67 were developed for flexible use directly in the field. The efficient 300 W and 500 W field power supplies fit in a very robust and compact housing.

Various versions are available from stock – including current-limited outputs for selective current distribution, a variety of plug connectors, IO-Link as a communication interface, and decoupling MOSFETs for developing redundant systems.

INDUSTRIAL PoE INJECTORS

Efficient 4-channel and 8-channel Power-over-Ethernet injectors for DIN rail mount. Available with an integrated 240 W power supply or as stand-alone PoE injectors.

Both devices feature a stable power of up to 30 W per channel.

This enables you to supply up to 8 PoE/PoE+ devices with only one injector. PULS PoE injectors can handle varying grid quality, high temperatures and vibrations. These units are therefore perfect for industrial applications.



BATTERY REPLACEMENTS FOR DC-UPS

PULS cooperates with renowned battery manufacturers to provide you VRLA lead-acid battery replacements in the highest quality.

Our battery replacements for DC-UPS systems are maintenance-free, easy to install and feature a very long service life.



MOUNTING BRACKETS

In some applications DIN rail mounting is not possible or not desired. For such cases, PULS offers practical wall, panel and side mounting accessories for its power supplies offering even more flexibility for your application.

The zinc-plated steel brackets allow the devices to be easily attached to any flat surface without utilizing a DIN rail. The side mounting option also helps to reduce the installation depth of the power supplies.





MICRON MI 150 AC

Measurement Light Curtain with Analogue Outputs.
2 programmable static outputs PNP + 2 programmable analogue outputs (4/20 mA)

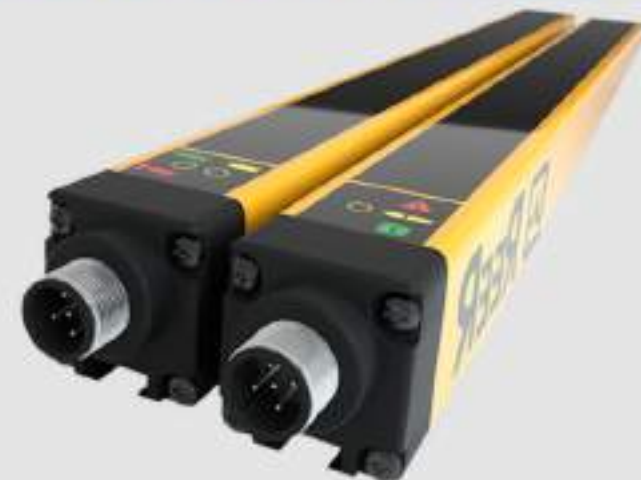
-  145 CONTROLLED HEIGHT (MM)
-  5 BEAM SPACING (MM)
-  2.5 MAX. RANGE (M)
-  2 analog outputs (4-20 mA)



TYPE 2 SAFETY LIGHT CURTAIN

Hand and Body Detection Safety Light Curtain with Automatic / Manual Restart

-  Type 2 - PL c SAFETY LEVEL
-  160 mm to 2.2mm PROTECTED HEIGHT (MM)
-  30 RESOLUTION (MM)
-  12 MAX. RANGE (M)



TYPE 4 SAFETY LIGHT CURTAIN

Finger, Hand and Body Detection Safety Light Curtain with Automatic / Manual Restart.

-  Type 4 - PL e SAFETY LEVEL
-  160 mm to 2.2mm PROTECTED HEIGHT (MM)
-  14 RESOLUTION (MM)
-  6 MAX. RANGE (M)



SAFETY DEVICES



SAFETY LASER SCANNER



PL d
SAFETY LEVEL



Laser scanner
SENSOR TYPE



SAFECODER SC3 2402048R



PL e
SAFETY LEVEL



Incremental encoder
SENSOR TYPE



SAFELOCK SLK-M-P-2NC-24

Safety Interlock with Mechanical Retention. Plastic Actuating Head. 2 NC contacts. Feedback 1 NC contact 1290100



Mechanical /
electrical
safety
interlock
SENSOR TYPE



Mechanical
GUARD LOCK





Baumer

DISTANCE MEASUREMENT

INDUCTIVE PROXIMITY SWITCHES

- Non-contact detection of metal objects
- Monitoring presence, movement and position
- Very small sensors with all integrated processing electronics
- Small-sized sensors with large sensing distance



FIBER OPTIC SENSORS

- Large selection of sensing heads
- Plastic and glass fiber optics
- Fiber optic amplifiers in different versions
- Detecting filling levels or leaks



LIGHT BARRIERS/PHOTOELECTRIC SENSORS

- Reliable operation with difficult object properties, mounting positions, or lighting conditions
- Greatest performance with the smallest designs
- Smart sensors save time from design-in to commissioning
- Highest precision



CAPACITIVE SENSORS

- Non-contact detection of liquid as well as solid objects
- Absolutely reliable even when interfered by ambient conditions
- High switching distance up to 30 mm even through non-metallic walls





Baumer

OBJECT DETECTION

LASER DISTANCE SENSORS



- Miniature sensors with high precision
- Powerful sensors for factory automation
- High performance sensors for demanding surfaces
- Measuring distances up to 13 meters

ULTRASONIC DISTANCE SENSORS



- Small and light designs
- Measurements in very small containers or openings
- Large measuring ranges up to 6000 mm
- Sturdy sensors for demanding environments

INDUCTIVE DISTANCE SENSORS

AlphaProx

- Comprehensive portfolio
- Measuring accuracy down to the nanometer range
- Compact sensors with completely integrated evaluation electronics
- Calibrated for minimum production lot variations



ULTRASONIC SENSORS

- Outstanding fast, small and sturdy in one
- Unaffected by object's brilliance, color or transparency
- Immune to dust, moisture or ambient light





Baumer

PROCESS SENSORS



PRESSURE MEASUREMENT

- Pressure sensors, pressure transmitters, and pressure switches
- Optimum technology for every application
- Relative pressure, absolute pressure, and vacuum measurement
- Fast commissioning, valuable additional data thanks to IO-Link
- Wide portfolio of process connections and adapters
- ATEX approvals for the Ex area



LEVEL SENSORS

- Point level detection and continuous level measurement in fluids and bulk media
- For hygienic and industrial applications
- Reliable sensor solutions for high process reliability
- All standard process connections



FLOW MEASUREMENT

- Volumetric flow, flow velocity, and temperature measurement
- For hygienic and industrial applications
- Precise and stable measurements for increased efficiency and resource savings
- For media in closed systems
- All standard process connections



SCARA ROBOT

A new industrial revolution is moving towards smart manufacturing and smart factories. To meet customer requirements for the future smart industry, there are new emerging technologies such as industrial robots designed to operate in dangerous environments that can assist in achieving flexible manufacturing, reduce manpower, and save development time.



ARTICULATED ROBOT

In this age of smart production lines and factory automation, industrial robots are applied to perform extremely dangerous tasks, improve flexible manufacturing, reduce manpower cost and save development time.

Delta's new six-axis articulated robots include two model types to meet all kinds of application demands. Delta is your best partner for smart manufacturing.





ELITE ROBOTS



CS63 3KG 6-AXIS ROBOT



CS66 6KG 6-AXIS ROBOT



CS612 12KG 6-AXIS ROBOT

WEIGHT	14kg	20kg	33kg
PAYLOAD	3kg	6kg	12kg
REACH	624mm	914mm	1304mm
FOOTPRINT	Ø128mm	Ø150mm	Ø190mm
ACCURACY	±0.03mm	±0.03mm	±0.05mm



EC612 12KG 6-AXIS ROBOT



EC66 6KG 6-AXIS ROBOT



EC63 3KG 6-AXIS ROBOT

WEIGHT	33.5kg	17.5kg	13kg
PAYLOAD	12kg	6kg	3kg
REACH	1304mm	914mm	624mm
FOOTPRINT	Ø200mm	Ø150mm	Ø128mm
ACCURACY	±/-0.03mm	±/-0.03mm	±/-0.03mm

ELECTRICAL SOLUTIONS

PLC CONTROL & AUTOMATION

We as a team has a cumulative experience in doing Engineering, Designmanufacture, supply, installation and Commissioning of PLC /Relay Control Panels, Synchronization Panels, APFC Panels, Retrofitting Panels, LV MCC and PCC Panels.

We also Manufacture and supply Panels for Marine Applications with third party approvals (IRS).

MANUAL BATTERY BANK CHANGE OVER PANEL

Battery Bank change over panels for DG applications.





CONVEYOR AUTOMATION

- Panel Marking System at Automobile industry
- Belt conveyor solution for FMCG industry
- Conveyor automation with PLC Control and HMI.
- Chain Conveyor solution at Automobile industry



RELAY LOGIC PANELS

Relay logic Panels are manufactured based on customer requirements.





CodePage Technology Private Limited offer Software solution service.

Our Company Provide Communication Projects, communication with PLC, Image Vision Mobile application, web designing, Image validation, Data Mining, Enterprise resource planning, Part Traceability Information System, and Data Fetching services.

Mobile Application:

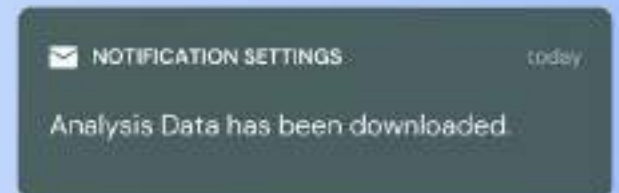
Top defect analysis, Plan VS Actual, Image Validation, Notifications

➡ Top defect analysis is used to identify the repeated issue and resolve it. Automatically to increase the productivity.

➡ Plan vs actual is used to increase the production statergly.

➡ Notifications provide short, timely information about events in your app .It will perform when the system hang, Printing issue, material issues.

➡ Image Validation were User can Upload Image to this application It will perform a series of tests, that image validate by Vision System and results will be throw Ok or ng.



ARCUS

WWW.ARCUSAUTOMATION.COM

Our Associate Partners



Headquarters: No.4, Noombal Road, Velapanchavadi, Chennai, Tamilnadu - 600077

Email: sales@arcusautomation.com

Office: +91 98842-33261

Sales: +91 98840-32018

Technical: +91 98840-32017