

# Machine Vision Products

Let's make it Worth!

## About Us

Alpha Techsys is leading distributor of machine vision components which makes variety of products available under single roof. We are the interface between manufacturers and customers, maintaining flow of product business in relatively faster and efficient way. We have strong industrial network and competence to recommend vision products in various applications. Our objective is to supply one - window solution to address customer needs and saving their valuable time in searching efforts. Our customer integrity and end-to-end transparency recognize us as leading MACHINE VISION COMPONENTS supplier in India.

### Inventory Availability

We have a well-organized warehouse in Pune, Maharashtra. We always try to maintain minimum stock of in-demand products to reduce lead time. In addition to this, we keep safety stock against our regular OEMs requirements for immediate replacement of items in case of failures.

### Demo Units

You can try out vision products before formal purchasing to check its functionality and suitability for your ongoing project. It will help you to select exact model before investing assets.



## ALPHA TECHSYS CONTINUOUSLY UPGRADES WITH LATEST TECHNOLOGIES TO FULFIL VISION MARKET TRENDS.

### Cost Saving Strategies

Alpha Techsys strives to work out best strategies for commercial budgets of customers to be in-line with their expectations. We always propose competitive price advantage to our customers. This strategic commercial benefit helps customer to invest more and more in Machine Vision Projects.

INCREASE PROFITABILITY BY FACILITATING COMPLIANCE WITH REGULATIONS AND MINIMIZE ERRORS USING MACHINE VISION SYSTEM.

### Business Relationship

Alpha techsys engages in frequent interaction with customers. Their trust in our competent services develops long-run relationship. Eventually we have higher customer retention rates.





**IF YOU ARE STRIVING FOR BETTER QUALITY AND EFFICIENCY OF YOUR INDUSTRY THEN MACHINE VISION PRODUCTS CAN BE ANSWER FOR YOU.**

## Machine Vision Products

### Industrial Camera

We supply high resolution, high speed industrial cameras for visualization and advanced analytics which are supported by standard interfaces like CoaXPress, USB, Gige, 10Gige, Camera Link, MIPI, LVDS etc.

#### VISION FOR MONITORING CAPABILITIES

##### Area Scan Camera



Area scan cameras have a matrix of pixels that capture an image of required FOV. These are suitable for robotics, automotive, traffic and many more applications where object is stationary or moves slowly. We have wide range from 0.3MP to 45 MP.

##### Line Scan Camera



Line scan cameras have a single row of pixels used to capture data very quickly line by line. These are best employed in high-speed processing or continuous fast-moving conveyor line applications and rotating objects inspections, color measurement. We have wide range from 2K to 15K resolution.

##### Medical & Microscopy Camera



We supply medical cameras with ISO certification which have some advanced medical feature set and useful in applications of medicines, microscopy, laboratory automation, ophthalmology etc.

##### 3D Camera



High performance 3D cameras give depth information too. It uses flight of time principle. They can be used in logistic, robotics and measurement applications. We supply both 3D area and 3D line scan camera.

##### Network Camera



Network cameras can be used for security purpose and gives best image quality in low light applications.

##### Board Level Camera



It fulfills requirements like small space, lighter, low power consumption and cost-effective. Useful in embedded vision, mobile applications.

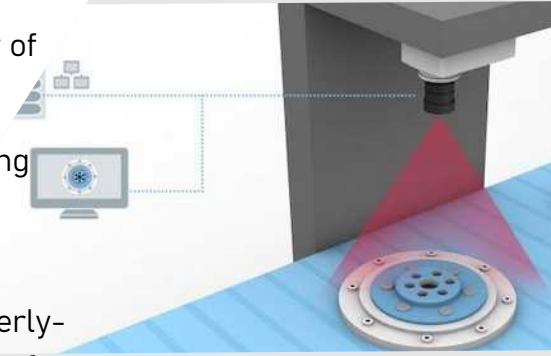


**We compiled for those who could not even try it.**



## Smart Camera

We supply Smart machine vision cameras which offer the possibility of providing fast and simple solutions for many different applications, combining the sensor, processor, software and I/O in a compact housing. It is more useful to end users, those not having programming experience.



## Machine Vision Optics

A good optics allows enough light to pass through it to produce properly-illuminated and sharply defined images. To have error-free depiction of field of view, proper selection of lens is important.

### FOCUS TO REPRODUCE YOUR OBJECT DETAILS

#### Fixed Focal Length Lens



These are entocentric lenses, used in application like pick-and-place applications, print image inspections, OCR and barcode reading. Resolution ranges from 1.5MP to 23MP

#### Vari-focal Lens



Variable focal length gives flexibility to change WD and FOV.

#### Zoom Lens



Changeable magnification with fixed working distance.

#### Telecentric Lens



Telecentric lens have constant magnification, no perspective error and very low distortion. Useful in accurate measurement applications.

#### Large Format Lens



Used for large sensor sized area scan cameras and line scan camera.

#### 360° View Lens



Pericentric lens for inspecting objects from top and lateral surfaces. Hole inspection lens for 360° inner inspection.

## Machine Vision Filters:



Filters required to block unwanted components of light and pass only necessary light to get better image quality and reduces reflections. We deal into all types filter like bandpass, long pass, NIR Cut, polarizing, protective etc. Filters can help to achieve more stable, accurate system.

## Machine Vision Illumination

Illuminating a product to reach the best contrast available is essential. Higher the contrast, greater is the difference between the background and the features to be inspected. Using the correct wavelength of light, proper lighting configurations and appropriate filters can increase contrast and result in more efficient image processing and faster inspection speeds. Selection of right light is application-oriented.

### ENLIGHTEN THE PATH TOWARDS SUCCESS

#### Backlight-



It gives Uniform illumination, oriented behind interested object. Used for edge detection, hole detection, object gauging.

#### Bar Light



It offers both bright field and dark field illumination, depending on angle of incidence.

#### Ring Light



Ring lights are commonly used to produce darkfield, diffused or directional lighting to illuminate objects in uniform way. Shadows can be significantly reduced by placing it almost parallel to the camera.

#### Dome Light



Illumination level is constant throughout the details of the object with no reflection and blind spots, used for shiny surfaces.

#### Coaxial Light



In this light projected from the light source is reflected by half mirror to the object and provide light parallel with the camera. Used in applications that involve the inspection of objects with transparent and reflective surfaces.

#### Spot Light



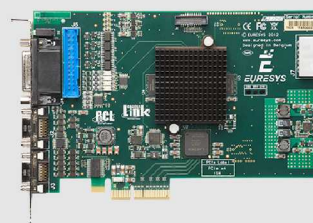
Spotlights are used in applications that require intense illumination of a limited area.

#### Line Light-



It employs a secondary lens to focus the light into a narrow beam, typically for short to intermediate working distances, and are mostly used in conjunction with line scan cameras.

#### Frame Grabber



Frame grabbers for capturing individual frames from video. Use of it can reduce loads on CPU. It has camera triggering capabilities. Also support long cable lengths. When you need high-speed image acquisition of high-resolution images with special synchronization features in real-time, the frame grabber will be a good fit. Multiple cameras can be connected to frame grabber; hence system cost can be reduced. We also supply programmable frame grabbers.

## Machine Vision Development Kit

It eases the evaluation and development of vision sensors and enables the development of GigE Vision, USB3 Vision and CoaXPress cameras. MVDK minimizes development time, offering best performance.

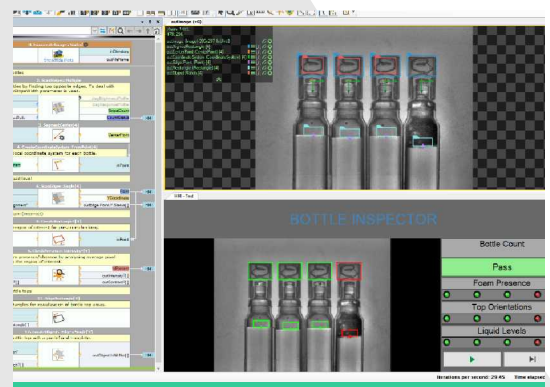


## Machine Vision Libraries

Helps to design, deploy and manage vision applications. We can provide simplified user interface with image analysis libraries and software tools. Easy to use functions like matching, finding, OCR, gauging, QR code reading and many more, makes image processing simple.

## Machine Vision Software

We provide most powerful machine vision software for developing and deploying complete machine vision application. It has advantage of more than 1000 features set/filters, drag and drop, easy to use and highly flexible. Latest add-on deep learning is also available for complex applications.



## Accessories

All the accessories that are required for machine vision systems can be provided. To make overall system installation easier and simple, accessories plays important role. We have extensive range of accessories like Power supply, Cables, PCI cards, Network and Peripheral devices, Protective housing, Light controllers etc.

## Why Us

### Dedicated Machine Vision Components Supplier in India

Alpha Techsys Automation partners with the best in-class technology providers in the industry in order to support & deliver latest Machine Vision Technologies for our clients across India.

### Quick Response

Our response time is minimum as we value the terms speed and accuracy. Many of our satisfied customers had appropriate guidance immediately from us.

### Technical Consultancy

Our multidisciplinary team consults about technical suitability of product in vision application. We can figure out conceptualization reports of problem areas.

## STOP SEARCHING, WE ARE HERE TO MAKE IT POSSIBLE

## Services & Support

We have never compromised on the quality and the services provided to the customer. We are proactive in after sales service. Our goal is to satisfy all queries of our customers.

### Support on Call



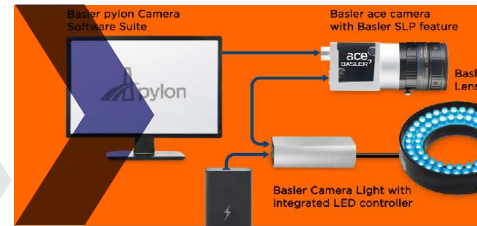
We support on call for any of the product related queries and try to resolve as soon as possible.

### Spare Part Support



We keep spare parts on request to minimize downtime

### Loaner Units



Interested products can be assigned to customers for few days as loaner units.

### Updates



We keep on updating customers about status of their purchase orders, delivery schedule, new stock arrivals, new launches etc.

### Remote Service



We arrange remote online sessions to train the customers and help them for proper installation.

### On-Site Service



On request, our support engineer can visit sites and execute the installation with some nominal charges.

Get in touch with experts for your Machine vision System requirement.

Satisfied customer service for Alpha Techsys starts with on-the-spot personal discussions and qualified consultation



## ➤ Dealing With Well-Known Brands

**BASLER** **TAMRON**  euresys  
Empowering Computer Vision

**FUJINON**  chromasens  
IMAGING FOR PROFESSIONALS **BALLUFF**

 **Edmund**  
optics | worldwide  

 **Adaptive Vision**  OPTO ENGINEERING

 **Baumer**  
Passion for Sensors **SICK**  
Sensor Intelligence.



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