



We are _____

India's Leading Machine Vision Solutions Provider

#imagingthefuture



hello@hwyl.in

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Company Introduction

HWYL is a leading-edge, one-stop provider of machine vision products and solutions based in Bangalore, India. Our cutting-edge hardware solutions include machine vision cameras, industrial lenses, and illumination. We have enabled clients across industries to transition from manual, outdated methodologies to high-impact, automated processes and also improve on existing processes to stay ahead of the competition.

Today, Hwyl is one of the top go-to solutions providers in machine vision in India, fully backed by our industry-leading partnerships that bridge customer needs with the latest technology.

Products & Services

- > Machine Vision Cameras, Lenses, Industrial Lighting, Surveillance Housing
- > Machine Vision Consulting

Why Hwyl - Our Strengths & Approach

The global shift in demand for sophisticated technology integration in the industrial automation space reflects the larger need to accelerate technology driven production. HWYL will be your specialist technology partner for a seamless transition into this space.



Staying ahead on the leading edge of Image processing & Machine vision.



In technology partnerships that bring better solutions to the market.



Delivering best-in-class cutting-edge technology products



In creating distinguishable value for our customers across the business lifecycle.

Industries We Serve



Drone, ROVs & UAVs



Intelligent Traffic Systems



Electronics Manufacturing



Automotive & ADAS



Packaging & Warehouse



Robotic Automation



Food Sorting & Grading



Defence & Aerospace



Healthcare & Pharma



Research & Development

Machine Vision Cameras

Complete range of Machine Vision Camera Offerings



HWYL offers an extensive selection of machine vision cameras designed to meet the diverse needs of various industries and use cases. Our offerings include board-level cameras tailored for OEM designs, IP67 cameras for Industry environments, high-speed cameras for fast moving application, and cameras operating in various spectral ranges, including UV, SWIR, and LWIR, to support specialized applications

Board Level Cameras



Flexible camera designed for OEM integration

- › Resolution 0.4MP to 20MP
- › Compact Module - 24x24mm
- › Six Lens mount options
- › Multiple Connector - iX, RJ45, FFC

IP67 Cameras



Factory Tough - Designed & Built for Industrial Use

- › Resolution 0.4MP to 24.5MP
- › Compact Module - 29 x 29 x 45 mm
- › Die Cast Al, M12 and M8 Connectors
- › Shock & Vibration Tested, IP67 Casing

High Speed 2.5 GigE Cameras



More Speed with 2.5GigE, Factory Tough Design & Quality

- › Resolution 1.6MP to 24.5MP
- › High Speed with 2.5x & PoE
- › Die Cast Al, M12 and M8 Connectors
- › Shock & Vibration Tested, IP67 Casing

High Speed 5 GigE Cameras



More Resolution & High Speed Streaming at 600 MB/s

- › Resolution 2.8MP to 31.4MP
- › High Speed with 5 GigE & PoE
- › C Mount to TFL Lens Mount
- › Shock & Vibration Tested, IP67 Casing

High Speed 10 GigE Cameras



High Resolution & Reliable 1.2GB/s Streaming

- › Resolution 5MP to 65MP
- › High Speed with 10GigE & PoE
- › Highest Res - 47MP (RS) & 65MP (GS)
- › 10GigE Optimized with RDMA

3D ToF Cameras



The next generation Time of Flight with Sony DepthSense

- › Sony IMX556 PLR ToF Sensor
- › 0.3m to 8.3m operating distance
- › 0.6mm precision & 4mm accuracy
- › Easy 3D Controls

SWIR & UV Cameras



The Industry grade IP67 Short Wave Infra Red Cameras

- › Resolution 0.3MP to 5.3MP
- › Featuring Sony InGaAs Sensors
- › Spectral Range - 400nm to 1700nm
- › Thermo Electric Cooling Option

LWIR / Thermal Cameras



The Indigenously designed Thermal Imaging Core

- › Resolution 320p to 1280p
- › Featuring LYNRED Sensors
- › ISP on Xilinx Zynq SoC FPGA
- › USB3 & HD-SDI Interface

Line Scan Cameras



The Exclusive Range of Line Scan Cameras

- › Resolution 2K to 16K Line Scan
- › Interface - GigE, CL, CLHS & CoAX
- › Spectral Range - Visible, NIR & SWIR
- › Max Line Rate - 25kHz to 300kHz

Zoom Block Cameras



The Ultra Compact Full HD Zoom Block Cameras

- › Resolution - HD to 4K
- › Optical Zoom range 10x to 40x
- › Multi Interface support - HDMI, LVDS
- › Compact Module - 33x43x59mm

Authorized Distributor of LUCID Vision Lab India

LUCID
VISION LABS

Machine Vision Lenses

Latest range of industrial lenses for your cameras



Machine vision lenses have a crucial role in achieving clear images with attention to fine details, which helps in accurate measurements and inspections. Our range of machine vision lenses can be used in an array of industries that require superior-quality images, including high-speed imaging, defect detection, measurement, and quality control

Fixed Focal Lenses



Varifocal Lenses



Telecentric Lenses



S Mount Lenses



SWIR & UV Lenses



SWIR Zoom Lenses



LWIR Lenses



Line Scan Lenses



Application Areas



Quality Inspection



Measurement



Factory Automation



Robotic Pick & Place



Autonomous Vehicles



Medical Imaging

Machine Vision Lighting

Industrial lighting for Vision Systems



Discover superior-quality machine vision lighting solutions to achieve clear, precise, and consistent imaging in automated inspections and industrial applications. Machine vision lighting provides uniform and controlled illumination that can minimize shadows, enhance contrast, and give attention to the finest detail, thus helping to reach precision in inspection and productivity in the industry

Bar Lights



Ring Lights



Area Lights



Low Angle Lights



Back Lights



Dome Lights



Coaxial Lights



Square Bar Lights



Surveillance Housing & Accessories

Industrial Surveillance Accessories for Enhanced Protection



Explore our range of surveillance camera housing and accessories catering to both indoor and outdoor needs of infrastructure projects. Designed to withstand various conditions, our range of surveillance housing and accessories guarantees proper working and enhanced performance of surveillance equipment. Our product offerings expand to explosion-proof housings, Pan Tilt units, PTZ systems, and other accessories

IR Box Housing



Dome Housing



Pan Tilt Positioners



Pan Tilt Systems



Explosion Proof Housing



IR Illuminators



Control Panels



Mounts & Brackets



Authorized Partner of LonTrend in India



Application Areas



Intelligent Traffic Systems



ANPR



Oil & Gas



Defence & Aerospace



Smart City



Long-Range Surveillance

Machine Vision Accessories

Improve your Vision System with the right accessories

Machine vision systems often require various accessories to function optimally and adapt to different applications. Increase accuracy, precision, and image quality by using accessories such as interface cards for multi-camera & high-speed applications, IP67 lens tubes, IP67 cables, and power adapters and more suitable to specific industries and applications



How We Support Our Customers

With years of experience in the machine vision industry, our teams have helped 100+ clients across various sectors achieve precision in their machine vision requirements. We can help you with camera and sensor selection, lens calculation, lighting design, and the complete imaging setup based on your industry-specific needs



"One Stop Solution for your Machine Vision Needs"

Machine Vision Consulting

Our extensive experience across diverse industry use cases enables us to provide insights and tailored solutions to our customers

Value Added Support

Our technical team assists customers in the seamless integration of products, accelerating product development and ensuring success.

Data Acquisition & Evaluation

For every new problem statement, we help our customers in their initial image acquisition and evaluation of their vision setup

On - Time Delivery

We ensure on-time delivery of our products to the customers with full visibility and tracking of the product from order to delivery

Our Strategic Partnerships

HWYL collaborate with industry experts and our partner network in offering the required business results for our clients. we see ourselves as being the change agents for our clients in transforming their business.



contact us

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