Machine Vision Application

UNIVERSAL ROBOTS

TURN KEY SOLUTION

witly
**IoT Features**

OVST EDTECH
Training Platform

TURN KEY SOLUTION

Oxford Vision & Sensor Technology (OVST) are proud to present a TURN KEY SOLUTION for Machine Vision Systems that includes Machine Vision, Robotics, the Industrial Internet of Things and our Education Technology Platform.

OXFORD
VISION & SENSOR
TECHNOLOGY

Oxford Vision & Sensor Technology co.Ltd, (Head Quarter)
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Vision Sensors
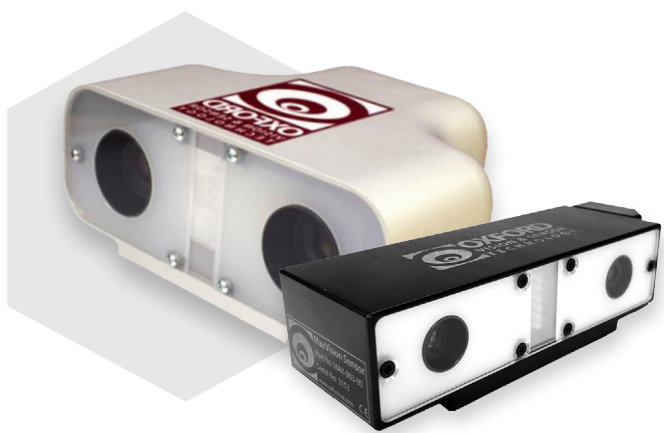
MaxSensor

The MaxSensor is our flagship product for position measuring. It includes innovative technologies that allow it to operate over a wide range of environments by switching between different measurement modes.

Measurement Modes
- SRS - Use on reflective surfaces, unaffected by surface colour
- Stereo - Use for feature detection, such as holes
- Laser - Use to detect the position of matte edges

Key Features

| Innovative Technologies | Operating Reliably Worldwide | Trusted by High-End Customers | High Accuracy |

Red & Blue Laser Sensors

OVST laser-line sensors measure 3D surface profiles and are used in sealant inspection and robot welding applications.
We can supply both red and blue lasers to best suit the specific application.

Measurement Modes
- Red Laser - Good for measuring moving object due to generally higher intensity stripe
- Blue Laser - Good for reflective surfaces such as metals

Key Features

| Advanced Functionalities | Easy Set Up | Rugged Industrial Hardware | High Resolution |

Gig E & Cognex Smart Cameras

The Gig E camera is compact, easy to set up, and has many different applications.
Cognex Smart Cameras are high quality sensors, that can work in vision systems without the need for a host PC.

Measurement Modes
- Laser line scan 2D/3D
- Area scan
- Vision analysis functions are build-in

Key Features

| High Quality Sensors | No Programming Required | Smart Cameras | Competitive Price |

Vision Software Application

Glazer

Glazer is our complete solution for automotive glass insertion. It is currently running successfully in many automotive plants world-wide.

Application

- Robot guidance glass insertion. Reliable and consistent operation, glass inserted with a success rate of 99.996%
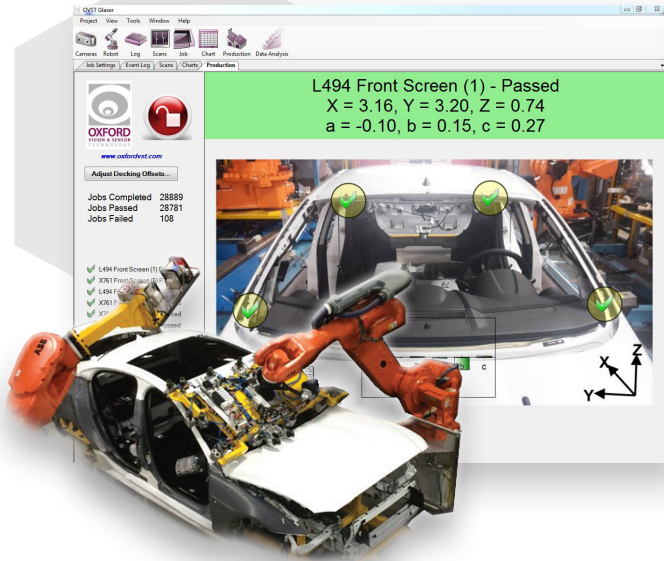- OCR - VIN Reading
- Bead tracking
- Gap & Flush inspection

Key Features

- Used by Major Automakers
- Simple Installation
- No Programming Required
- Fast & Reliable Operation

McTracker

McTracker provides laser profile tracking for many applications, such as glue bead inspection or robot welding guidance.

Application

- Tracking profile displayed in 2D & 3D
- Defect inspection
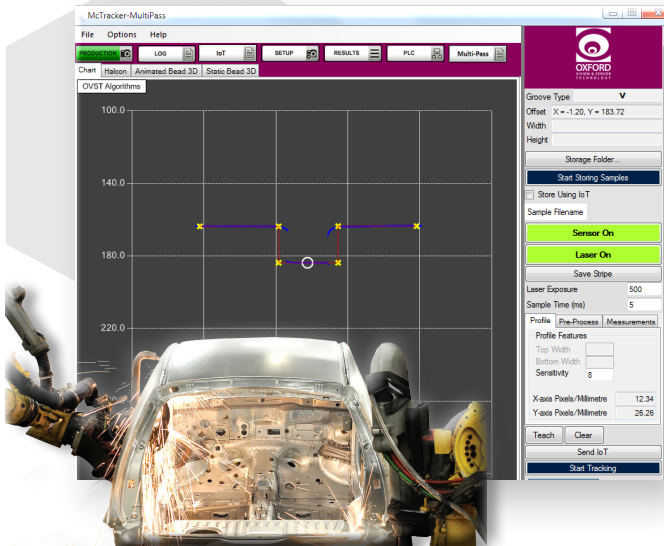- Accurate profile measurements

Key Features

- Customize to track any profile
- Robust for Arc-welding
- Easy Integration with PLC
- Supports Multi-pass Welding

McVision

McVision can perform both 2D and 3D visual inspections. It is easily customizable and can support a large number of cameras.
McVision utilises Deep Learning for defect inspection of parts, providing a powerful quality control solution.

Application

- Visual inspection in 2D & 3D
- Pick & Place robot guidance
- PCB defect inspection
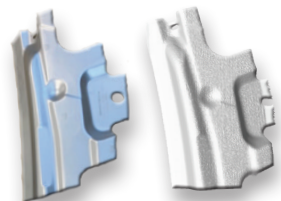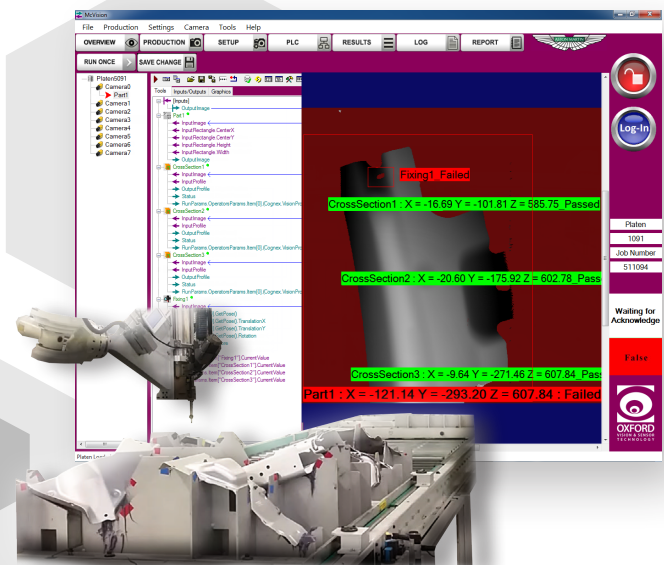- Supports multiple cameras
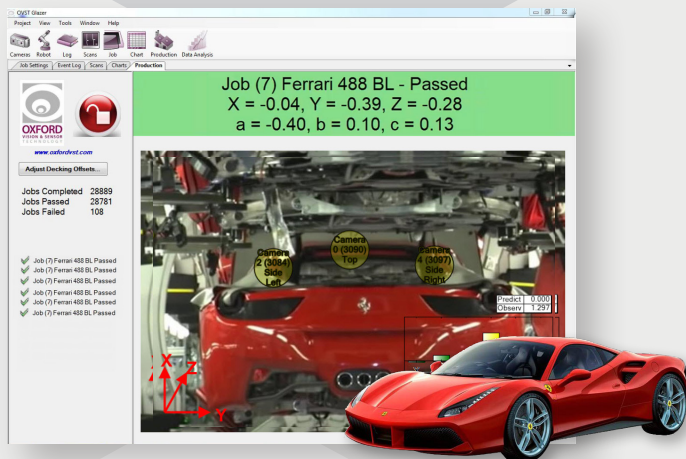
Key Features

- Easy Set Up
- Customize with Requirement
- Integrated with Deep Leaning (AI)
- Works with 2D & 3D Cameras

Job (7) Ferrari 488 BL - Passed
X = -0.04, Y = -0.39, Z = -0.28
a = -0.40, b = 0.10, c = 0.13

Machine Vision

OVST provide easy to use 2D and 3D vision systems. Drop in a simple script file to customise to your requirements. No coding skills are required.

We currently have vision systems installed that use over 70 cameras to do real-time inspections, but our systems can be easily extended to any number of cameras.

Robotics

Our applications support all industrial interfaces, including Ethernet, ProfiNet, and ProfiBus.

OVST Vision Systems integrate seamlessly with **Universal Robots™** and its teach pendant.

An intuitive user interface makes it easy to setup a new inspection system with no coding required.
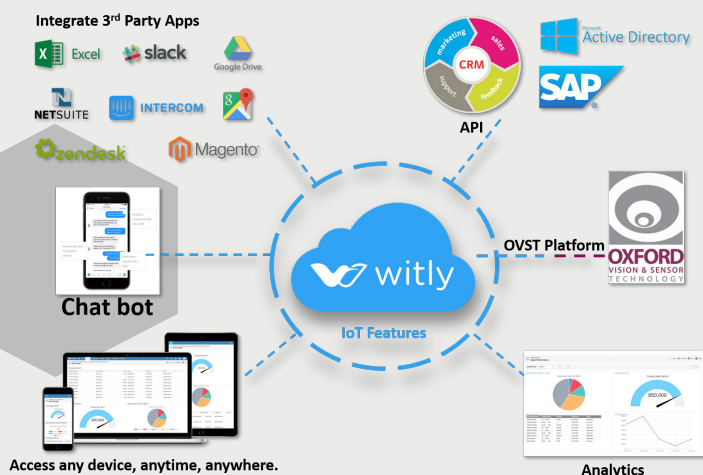
Industrial Internet of Things

OVST, in collaboration with Witly Cloud storage, provide an online platform that allows users to:

- Use analytics tools to monitor online data
- Embed access to the Cloud inside 3rd party applications including Slack and Microsoft Office
- Access Cloud data using Enterprise solutions such as SAP

Education Technology Platform

Our products also run in simulation mode. This allows our customers to test the complete system virtually before transferring it to the production line.

These virtual systems are one part of an online Education Platform that we have developed to train our users in all aspects of industrial machine vision including how to integrate effortlessly with robotics and IIoT.