



ROBOTIC VISION TECHNOLOGIES

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WELCOME TO THE WORLD OF SINGLE CAMERA 3D

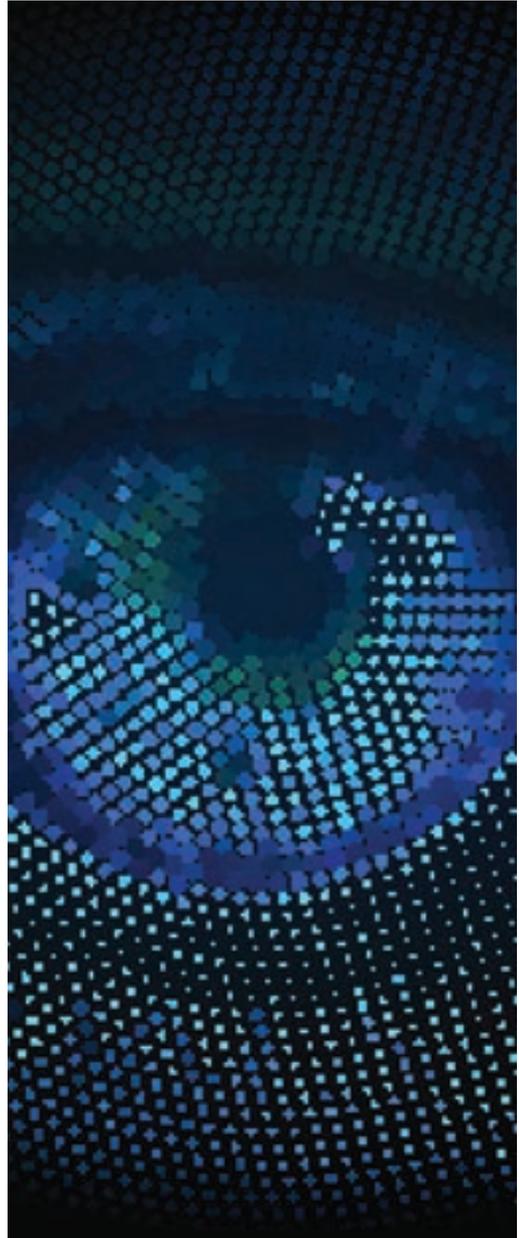
Thought by many to be impossible, machine vision guidance by Robotic Vision Technologies finds the part's full 3D position and orientation using only a single 2D image. Why does this matter? By using a single off-the-shelf 2D camera, you save on cost, errors and programming. Importantly, by only analyzing a 2D image, you save on cycle time*. And best of all, you get all of this with the world's most precise 3D Vision Guided Robotics system**.

Without vision, your robot assumes every part will be at the exact same place at the exact same time. To accomplish this, many integrators will spec out "expensive programming," hardware-based motion control, signaling, and dunnage systems. Instead, provide eyes to your collaborative robot and allow it to take control of the whole assembly process without ever losing sight of your part or process. With vision, your robot can find the part in any position or orientation and avoid devastating line stoppages, defects, and damaged equipment.

RVT has over 300 installations in over 40 facilities ranging from small "mom-and-pop" manufacturers to major automotive OEMs. The company has installations from over 10 years ago that are still running today without a single warranty claim.

*cVF Image analysis benchmarked at 0.1 seconds

** OEM Gage R&R test among six leading providers.



LET US ENABLE YOUR COBOT WITH 3D VISION

cVF™ was developed for the collaborative robot user. With no coding required and a sensible interface, cVF™ promises to eliminate much of the expertise required for typical machine vision applications. RVT's integration team will assist with everything from feasibility to on-site set up and installation. Bringing 3D Vision Guided Robotics to collaborative robots has never been so simple and cost effective.

Contact RVT to get help with your application. If we determine your application is a good fit for vision, send some parts to our lab and we'll create a proof of concept. After that, you can choose anything from self-setup to a visit from our integration team to make sure your application is up and running.

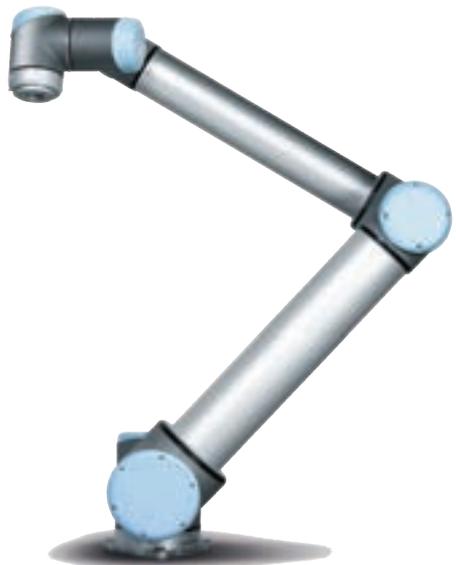
Want to work with an integrator? Contact us for RVT trained integrators in your local area. Or have your preferred integrator work with us to ensure you get a turnkey solution with the most advanced 3D vision.



UR3



UR5



UR10

THE VISION FACTORY SOFTWARE SUITE

RVT offers two fully-featured software suites:



eVisionFactory™ (eVF™): Designed for systems integrators and industrial robots. Single-camera 3D VGR with expert-level vision processing capabilities for fine-tuned precision.



collaborative Vision Factory (cVF): Designed for plant managers utilizing collaborative robots. Offers the same advanced Single-Camera 3D techniques but in a simpler and friendlier package that guides the user through setup.

With each offering, you get the ability to locate multiple parts in 2D, 2.5D, or 3D guiding any major robot. With a powerful feature-matching technique, training a new part is just point and click. No programming required. This advantage gives great flexibility to operators if parts or requirements change.

Further simplify setup with a single click built-in auto-validation tool:

- **AutoCalibration:** automatically calibrate the camera to the robot with the supplied calibration grid
- **AutoTrain:** automatically capture images of the part from multiple positions to build a 3D representation and give feedback on user feature-matching choices
- **AccuTest:** automatically test the accuracy of the solution to get metrics for online performance

40 facilities have installed eVF over 300 times because of our performance and reliability. Here are some reasons why:

- 0.1 seconds from 2D image to robot command
- Greater measured precision than the robot itself
- Use any industrial GigE Camera
- Use any major industrial or collaborative robot

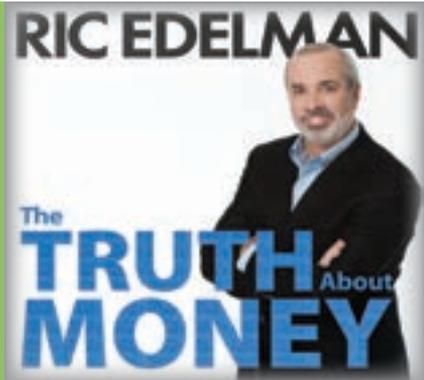


**AUTOMATION SPECIALIST
AT MAJOR OEM**

"We have been running eVF since 2003, and some of our vision programs haven't changed in 10 years! Testing the latest version of the software shows it to be the most accurate solution available."

**RIC EDELMAN
NYT BEST SELLER AND FOUNDER OF
\$22B ASSET MANAGEMENT FIRM**

"RVT and its technology are poised to transform the way robots function in multiple markets. Their innovations in how machines perceive and respond to their environments are exactly what customers are looking for as they develop the next generation of equipment and end user products."



**DENNIS FRAZE
CEO - KEY INDUSTRIES**

"The support RVT has shown confirms we have made a great choice in partnering with RVT. We are excited about the future and knowing you are continuing to develop your technology more every day proves your commitment to your products."



ABOUT OUR COMPANY



RVT was founded in 2010 and is privately held and operated. RVT has researchers and developers working in computer vision technologies as experts in the field of single-camera 3D vision guided robotics, random bin picking, and precise pick and place applications. RVT's software and technologies enable image recognition, machine vision, machine learning, and robot guidance processes in industrial and non-industrial markets. RVT has recently developed a 3D vision guidance system for the collaborative robot market. RVT holds 20 patents and patents pending and was recently named the most accurate and precise vision guidance solution among global leaders in the industry by a world leading OEM. The company's main 3D vision solution features the Henry Ford Technology Award as well as the BAE Chairman's Award for outstanding service.



40+
Facilities



300+
Projects



9
Awards

 UNIVERSAL
ROBOTS

ABB

 MOTOMAN
A YASKAWA COMPANY

KUKA

FANUC

 **Kawasaki**



ROBOTIC VISION
T E C H N O L O G I E S