

The Future of Technology at Robotic VISION Technologies: Release of a New Data Visualization and Analytics Package for Vision Factory™, and a Forthcoming SC3D Vision Library

July 25, 2019

Robotic VISION Technologies, Inc. (RVT) has two new exciting technologies to announce. The first is the official release of their new data visualization and analytics package, VFData, for Vision Factory Standard™ and Vision Factory Pro™. The second is a forthcoming vision library and SDK enabling developers and integrators to use Single-Camera 3D in their own applications.

VFData

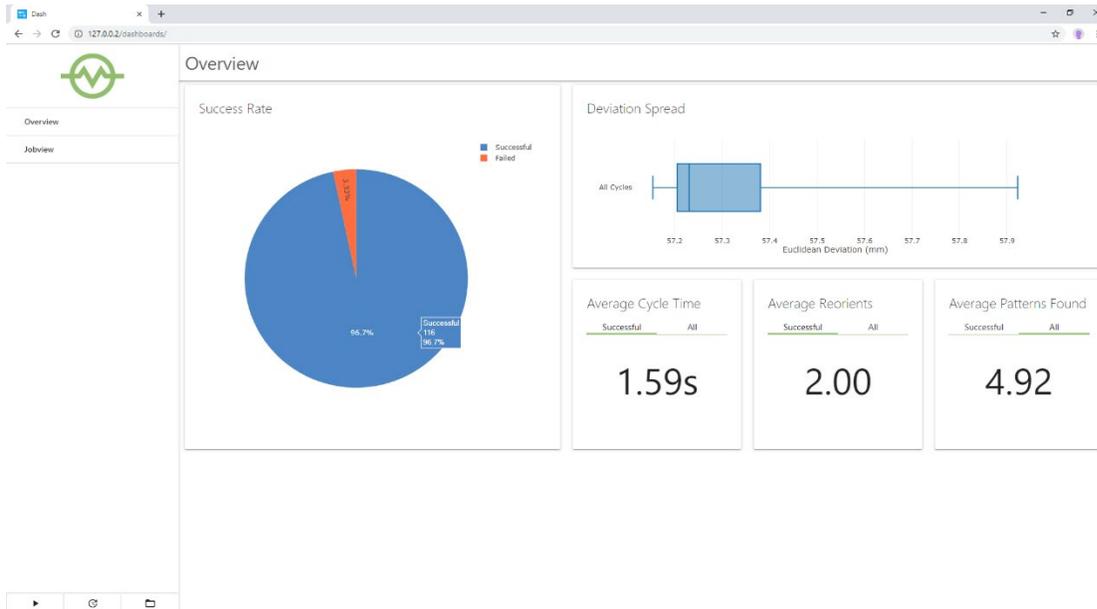
VFData was the priority for RVT's engineering team over the last 6 months in response to frequent requests from more data-centric customers. With VFData, customers unlock the ability to harness the stream of data that Vision Factory produces every cycle. With this tool, Vision Factory's data can now be captured, stored, analyzed, and displayed in an easy and central place. VFData offers actionable insight into an otherwise opaque process.

The VFData dashboard can be accessed from a browser on any vision processor running Vision Factory. This way, the data can be viewed with or without Vision Factory running. Clients can leave VFData loaded continuously, or bring it up only when needed, without the loss of any data. With a dashboard of persistent data, customers can now view the trends of a solutions performance for analysis or monitoring.

The VFData dashboard features two main views for each customer workspace: (1) An overview of performance and summary statistics for the entire workspace, and (2) a detailed view of the cycle performance for each job.

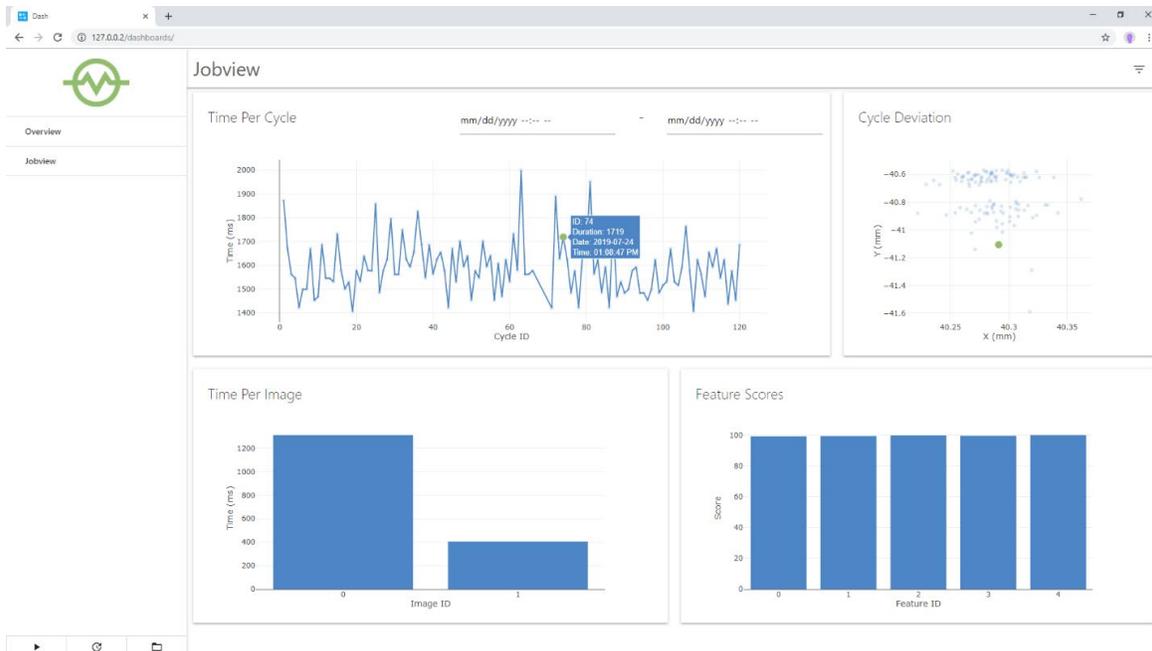
Users can choose between a view of overall health and performance or dive into data for specific parts at specific times. The desired level of detail is up to each user.

The Workspace View



On the workspace overview, users can access these key metrics: cycle success rate, a box-and-whisker plot of the parts deviations from the reference position, average cycle time, average number of reorients, and average number of patterns found. These values give key insight into the speed and variability of their cell. Furthermore, these numbers are lead indicators for any reduced performance of the cell.

The Job View



In the job view, users can see individual statistics, like cycle times, deviations in 3 dimensions, cycle time per image, and feature scores. Further filtering can be done on the date range of the data. This allows users to access historical data for inspection and exploration.

RVT's engineers plan to add many more data capture capabilities, including the ability to define custom dashboard components, in future releases. For now, RVT offers customization for firms requiring certain data values or formats.

To see if VFData is right for you or other inquiries, please email sales@roboticvisiontech.com.

Single-Camera 3D Library and SDK

To better serve vision application developers and integrators, RVT is developing a vision library for developers who want access to RVT's patented Single-Camera 3D technology, but do not need or desire the full graphical application and feature-set. This library is great for developers who want control over their entire app, but want to simply plug-in SC3D™. into their current solution. The vision library targets new potential users for Vision Factory by allowing those users to maintain their current development and sales operations, but still get the simplicity and power of SC3D™..

RVT plans to release its most innovative features and products as part of their vision library going forward. Customers should expect to see new algorithms and techniques for 3D object reconstruction with structured light, inspection, and much more.

The SDK is targeted for a beta release in early 2020. Reach out to lead engineer Paul Weidinger at paul.weidinger@roboticvisiontech.com for technical details.

SEE, THINK, DO™

About Robotic VISION Technologies Inc.

Robotic VISION Technologies Inc., a privately held machine vision software company, is a recognized leader in the field of 3D Vision Guided Robotics (VGR™). RVT's 2D, 2.5D, and 3D vision guidance software platform allows robots to **"See, Think, Do."**™ RVT's software and vision technologies enable and improve image & facial 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 and has been designated as a Certified System Integrator by Universal Robots (UR) as well as tested and accepted into the UR+ certified third-party preferred solutions vendor for machine vision software - UR's cornerstone robot ecosystem. The company's main 3D vision solution was honored with the Henry Ford Technology Award as well as the BAE Chairman's Award for

outstanding service. Major manufacturers using RVT's products include Ford, General Motors, Chrysler, Honda, Toyota, Nissan, Harley-Davidson, Boeing, Duracell and Johnson & Johnson. RVT's Vision Factory™ software platform is installed in hundreds of systems worldwide and operates every day controlling over one-half billion dollars of capital equipment. RVT holds a portfolio of 20 granted patents, exclusive licenses and pending future-thinking inventions.

For more information, visit roboticvisiontech.com or email us at:
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