

The Deception Detection Technology of Tomorrow Has Arrived

It was only a matter of time before a new, accurate technology for credibility assessment was invented.

For almost a century, the polygraph has been the only viable solution within the field of deception detection, but after 10 years of research our team of scientists developed a different, yet equally effective, solution that can be used together with the polygraph or as an alternative to the polygraph in appropriate applications.

The polygraph measures a person's emotional response when lying, whereas EyeDetect® evaluates changes in cognitive load associated with deception. The two technologies provide partially independent sources of diagnostic information about deception and may be used in combination to great advantage in some applications.

Converus® Chief Scientist Dr. John Kircher

Dr. Kircher is a widely recognized expert in government and industry on the subject of deception detection. He has published more than 90 scientific publications and technical reports in the field of psychophysiological detection of deception and has served as a consultant on deception detection to the U.S. Department of Defense, U.S. Secret Service, U.S. Department of Homeland Security, National Science Foundation, National Research Council, Royal Canadian Mounted Police, and numerous state and local police departments.



Revolutionary Technology for Fighting Theft and Fraud

Corruption is a multibillion-dollar problem worldwide. According to the World Bank Institute, more than \$1 trillion dollars is paid in bribes annually. The European Union's anti-corruption report found that corruption is costing \$185 billion a year across the union's 28 countries. It's no wonder why corruption is regarded as the single greatest obstacle to economic and social development. It disrupts markets, cripples economic growth, debases democracy and undermines the rule of law.

How can businesses, governments and law enforcement agencies effectively pre-screen potential future employees and periodically screen existing employees to effectively manage risk and ensure workplace integrity?

Who can polygraph examiners partner with to enhance their services and meet more of their customers' needs?

The answer: **EyeDetect®** by **Converus®**. This next-generation deception detection technology is accurate, cost-effective, efficient, secure and nonintrusive. And it's precisely what's needed to help keep countries, workplaces and communities safe.

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Converus ("with truth") is committed to providing trustworthy credibility assessment solutions. Its flagship product, EyeDetect® — a product first conceived in 2002 — is the first ocular-motor deception detection solution. It's an accurate, cost-effective, efficient, secure and nonintrusive method that detects deception in 30 minutes by analyzing eye behavior. The same scientists credited with computerizing the polygraph in 1991 developed EyeDetect. It's a new way for organizations to manage risk and ensure workplace integrity, and for law enforcement agencies and governments to detect deception. Ultimately, it helps protect countries, corporations and communities from corruption, fraud and threats.

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Now You Can Detect Deception Quickly and Accurately

Introducing EyeDetect —

screen job applicants and employees, security and law enforcement personnel, parolees, refugees and visa applicants in just 30 minutes.



“The largest single advantage of EyeDetect® is its accuracy.”




– Former program manager at a federal agency

The human body responds in many ways to the stress of deceiving; the greater the consequences of the deception, the greater the stress. This stress causes changes of human eye behavior due to increased cognitive load. EyeDetect's unique ocular-motor deception test measures bio-cognitive responses, including pupil diameter, eye movements, eye blinks and fixations. EyeDetect uses a high-definition, infrared eye-tracking camera to measure these subtle changes and then combines the measures in a mathematically optimal manner to detect deception with 85% accuracy. When EyeDetect is used in combination with polygraph in a successive hurdles approach, a combined outcome confidence as high as 99% is possible.

EyeDetect is ideal for efficiently and accurately screening for lying, stealing, accepting bribes, using drugs, and/or divulging confidential company information. It's also ideal for screening parolees, sex offenders, refugees and visa applicants.

Now employers, as well as governments and law enforcement agencies, can use EyeDetect's innovative technology to successfully “see truth.” *Never before have organizations had access to a deception detection tool this powerful.*

How EyeDetect Works

-  1. Examinee takes 30-minute true/false test.
-  2. Data captured, encrypted and uploaded to a secure server in the cloud.
-  3. Proprietary algorithms interpret the data and provide a report with the Converus Credibility Score within 10 minutes.

EyeDetect's Benefits

Revolutionary Deception Detection – Monitors subtle changes in the eyes to detect deception.

Fast Results – A test can be completed in just 30 minutes, and results are available within 10 minutes.

High Accuracy – Classifies examinees as truthful or deceptive with at least 85% accuracy. However, an outcome confidence as high as 99% is possible when used in combination with polygraph.

Nonintrusive – No cables or sensors to attach to the examinees.

Simple to Use – An EyeDetect Test Proctor and Dashboard Administrator can be trained in less than 3 hours.

Incorruptible & Unbiased – The human-based examiner element is eliminated, and the data are encrypted in real time.

Bank-level Secure – Same encryption and physical security that banks use.

Scalable – An EyeDetect administrator can manage and process up to 14 tests per day.

Flexible & Portable – Have an on-site EyeDetect station or take your highly portable station to regional or remote offices to administer tests.

Economical – The ability to administer up to 14 tests daily, coupled with the short test time, minimizes your costs.

Complete Analytics & Reporting – Your exportable test results may be filtered by date range, test type, department type, credibility score and more.

Multilingual – Tests are available in various languages.

“We have confidence in the technology.”

– Karla Hernandez, MFM Manager of HR

EyeDetect can successfully “see truth” and help keep countries, corporations and communities safe.

Screen

- ✓ job candidates, employees
- ✓ law enforcement, security personnel
- ✓ refugees, visa applicants
- ✓ parolees, probationers (including sex offenders)

Benefits for Polygraph Examiners

- ✓ EyeDetect can quickly screen large groups
- ✓ follow-up with polygraph for higher accuracy
- ✓ offer additional services

“The [technology EyeDetect]... 85% of the time correctly classified the participants as guilty or innocent.”

– Journal of Experimental Psychology: Applied, September 2012

