

## Converus Technical Update

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**Topic:** Use of chin rest during EyeDetect and EyeDetect+ testing

### Overview

EyeDetect is an innovative lie detector and one of the original features that positively impacted customers is its non-invasive testing method. There are no sensors or cables attached directly to the examinee. To maintain stable positioning of the examinee's head, a stationary chin rest has been recommended. The chin rest is not attached to the examinee but is positioned directly in front of the examinee during testing.

**This technical update serves to notify customers of an option to discontinue the use of the chin rest during testing for EyeDetect and EyeDetect+ tests.**

### Update

Since 2014, Converus personnel and authorized service providers have successfully conducted thousands of demonstration tests in customers offices, at events, and seminars. The Number Test is used for these types of demonstrations. When administering Number Tests, Converus personnel do not use a chin rest, primarily due to the shortened testing time of the Number Test. The accuracy of the Number Test is approximately 92%.

In addition, the Tobii eye tracker currently sold with the EyeDetect Station has improved eye tracking capability, even with slight head movements. Data loss is reduced with this new technology.

And, with the release of EyeDetect+ (automated polygraph), the chin rest is not recommended because it would entail having the examinee lean forward, which might impact respiratory function.

Given these changes, Converus recommends that EyeDetect or EyeDetect+ tests can be successfully administered without a chin rest under the following two conditions: (1) Proper Seating and (2) EyeDetect Manager.

#### 1. Proper Seating

EyeDetect Testing - the examinee should be positioned in a comfortable chair and maintain both arms on the testing station table to support that seating position while responding with the mouse. Alternatively, the examinee could use both hands to hold the mouse while responding to test questions.



EyeDetect+ Testing - the examinee should be positioned in a comfortable chair while maintaining the dominant arm or hand on the testing station table to support that seating position while responding with the mouse.

The non-dominant hand will have sensors attached and the arm must be kept stationary on the chair arm rest.



## 2. Use of EyeDetect Manager and EyeDetect+ Manager

These free software applications allow test proctors to vigilantly monitor examinees during testing to ensure compliance and proper behavior. With EyeDetect Manager or EyeDetect+ Manager, the test proctor can correct any examinee counterproductive behavior in real-time to reduce data loss that might be associated with excessive examinee head movement.

### Summary

If both conditions are followed — proper seating and use of EyeDetect Manager — testing can be successful, and no adverse impact will be observed without a chin rest.

**Contact:** For any questions or concerns about this technical update, please send an email to [info@converus.com](mailto:info@converus.com).