

## The use of polygraph in investigation of crimes

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**Abstract:** The article examines the relationship between criminal investigations and polygraph tests. For law enforcement, in particular, the polygraph is a vital tool in investigations. Various lie detectors have been used by officers since the early twentieth century, and as the technology underlying the devices has evolved, so have various practical applications in law enforcement. This paper discusses in detail the methods of interrogation, the constitutional rights of suspects, as well as a polygraph application. The authors describe the general scientific findings of the polygraph assessment, and then discuss in detail the specific scientific findings and implications of the latest and propose changes in the Federal policy in the field of polygraph testing. Although modern polygraphs represent a significant technological improvement over earlier instruments, the physiological measures included in earlier instruments are largely the same as those used today. Modern polygraph is a diplomat of the size of the device that in most situations area, recording changes in electrodermal activity (GSR) using two electrodes attached to the fingertips. To record changes in relative blood pressure and heart rate, a standard cuff is used to measure blood pressure, which is partially inflated during testing.

**Keywords:** the polygraph, the investigation of the crime, criminal penalties, investigations, lie detector

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