



Tselina Data Lab. presents FRAUDOSCOPE - remote monitoring complex that analyses the veracity of the subject's answers.

FRAUDOSCOPE - is a software algorithm that uses machine learning technology, computer vision and 3D face reconstruction. Only a computer and a video camera is required to start working with it.

FRAUDOSCOPE allows you to analyze the veracity of the responses of any subject:

an employee	a candidate for job
potential client	a migrant
suspected of an offense	

FRAUDOSCOPE is able to recognize truth and lie with high accuracy, which helps you make correct decision!

Accuracy of **>75%**

Product description

FRAUDOSCOPE performs multivariate analysis of 35 dependencies on various physiological parameters, including:

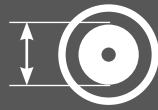
How it works



Pulse



Respiration frequency



Diameter of pupils



Eye movement



Head rotation



28 face muscles

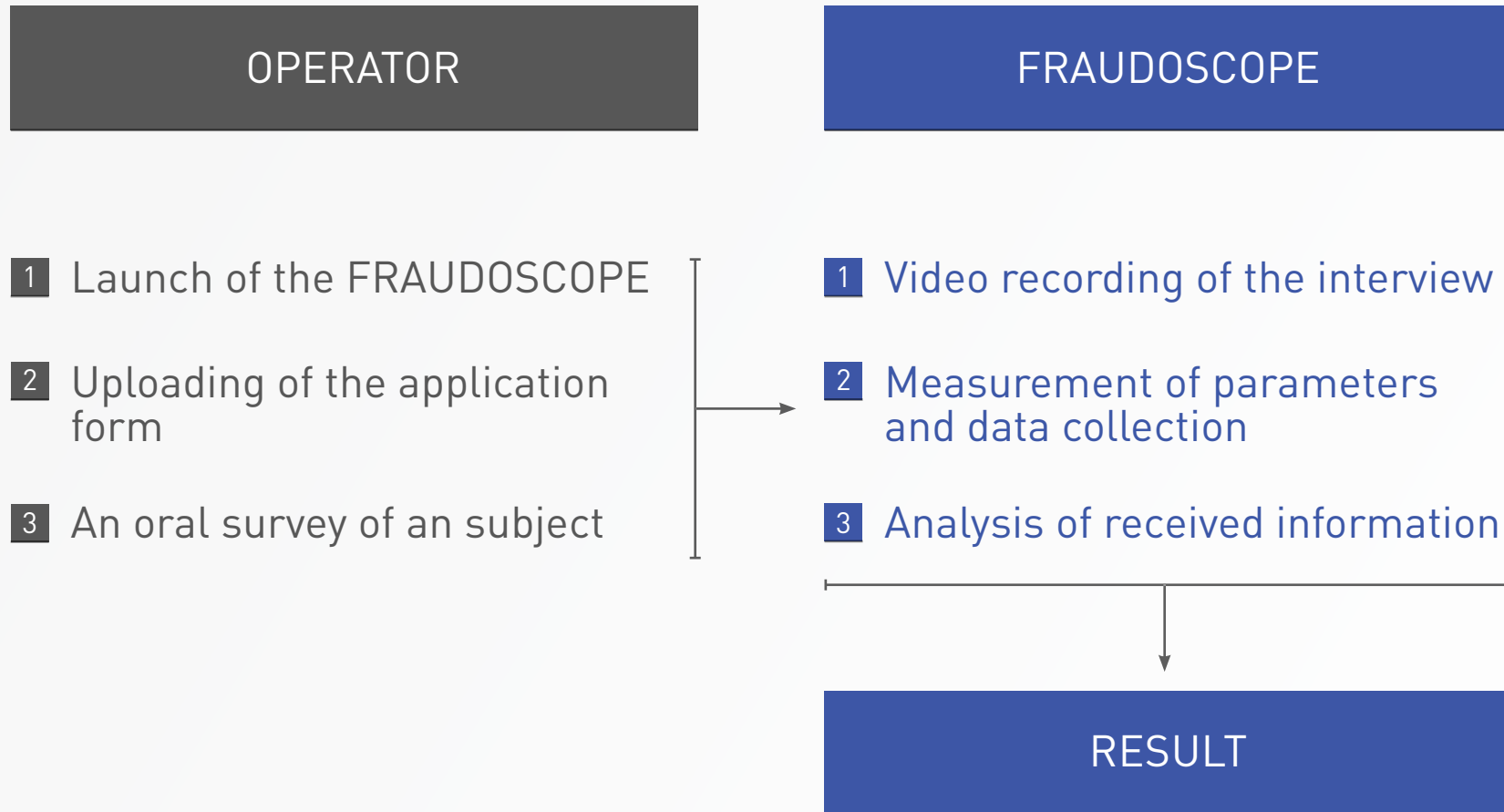
Advantages

For each assembled data channel the complex performs a calculation of values of speeds, accelerations and frequencies, conducting a 3D reconstruction of the face.

Application area

When required data is collected a reversed algorithm is performed that using the statistics accumulated during the interview, allows FRAUDOSCOPE to project veracity of a subject's answer through a comparison of intersections of statistical properties.

Who we are



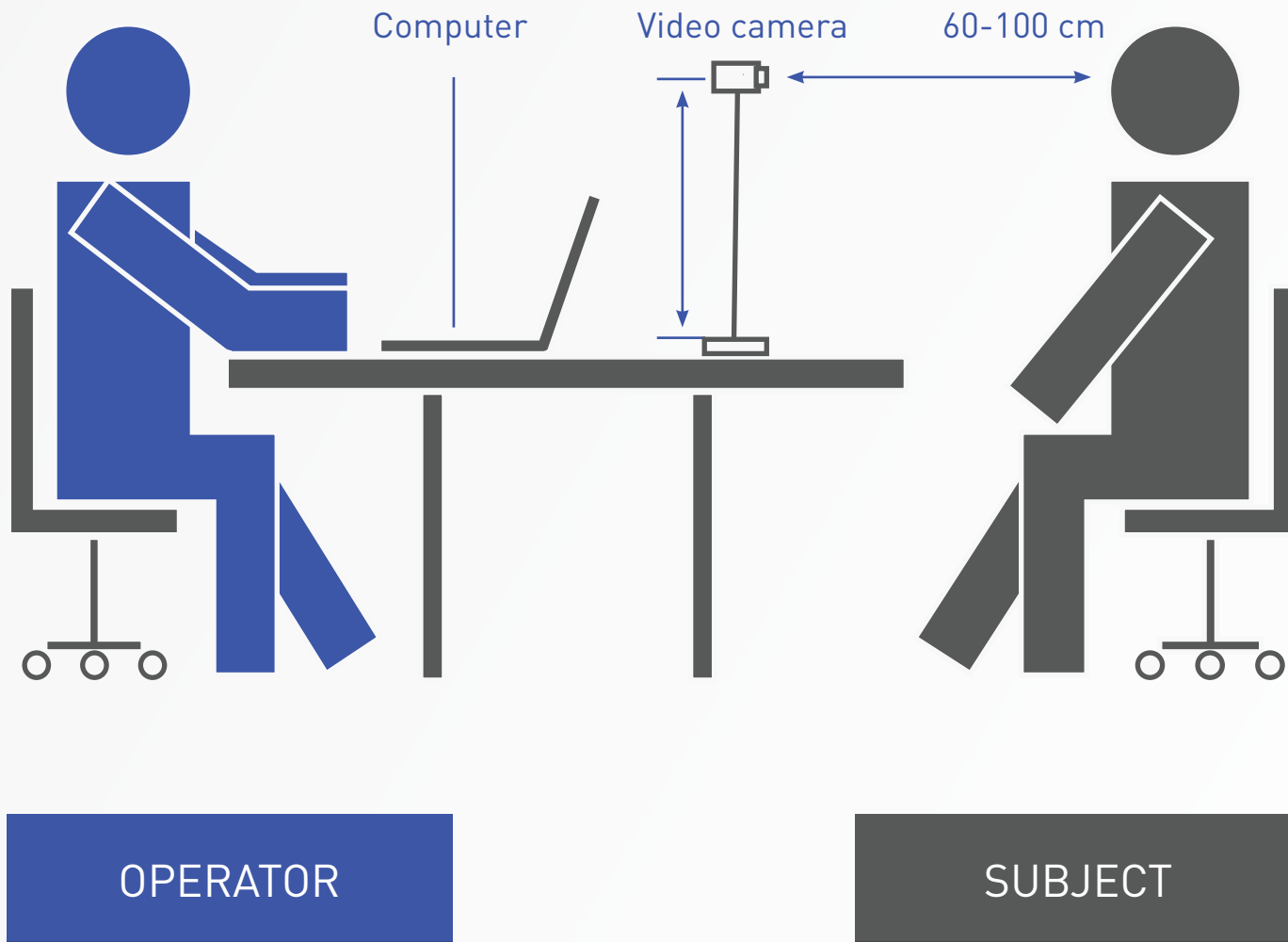
Product description

How it works

Advantages

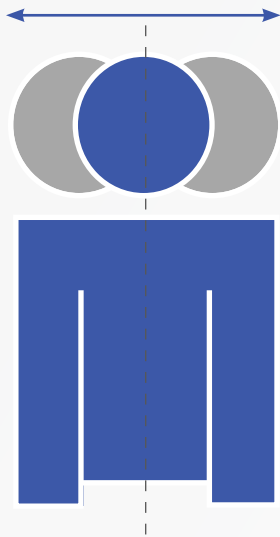
Application area

Who we are

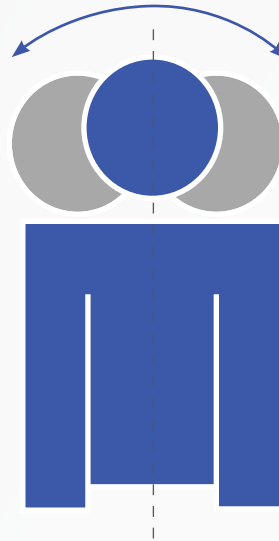


FRAUDOSCOPE doesn't require rigid fixation of the subject and is capable to conduct and analyse statistics at the following turning angles of head:

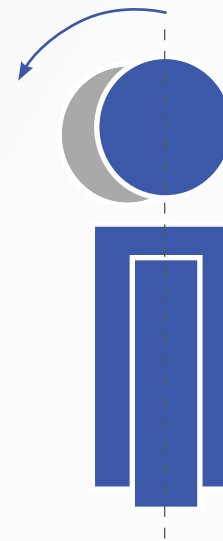
45 degrees to the left or right



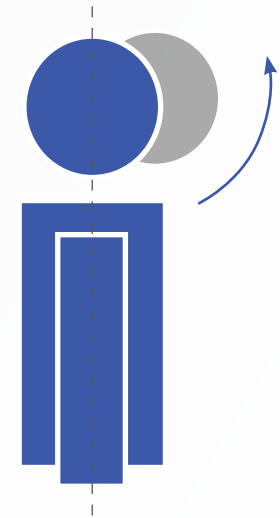
30 degrees side tilts



20 degrees downward



40 degrees upward





Product description					
How it works	Easy-to-use	Functions autonomously	Preventive measure	Easily scaled and installed	Express results
Advantages	The system does not require special equipment, wired sensors or any other additional equipment	Internet connection is not required, which allows additional protection and privacy of received data. Suitable for implementation in closed networks.	Presence of FRAUDOSCOPE in the office and complete understanding by employees that their illegal actions can be detected is a crucial stop-factor	No need for extra employees and additional workspaces	Results of the research are generated in real time, no need to wait
Application area					
Who we are	More efficient and cost-effective than wired polygraph systems and polygraph services due to wireless analysis, user-friendly interface and express generation of result.				

FRAUDOSCOPE users:

Product description	Finance	Retail	HORECA	Transport companies
How it works	<ul style="list-style-type: none"> ▪ Banks ▪ Insurance companies ▪ Leasing companies ▪ Micro-financial institutions ▪ Pawnshops 	<ul style="list-style-type: none"> ▪ Retailers ▪ On-line shops ▪ Auto/Moto companies ▪ Petrol station chains 	<ul style="list-style-type: none"> ▪ Hotels ▪ Restaurants/café/bars ▪ Resorts 	<ul style="list-style-type: none"> ▪ Airlines ▪ Water transport ▪ Railway transport ▪ Automobile transport ▪ Service companies
Advantages	Mining and processing companies	Staff services	Security	Government services
Application area	<ul style="list-style-type: none"> ▪ Extraction of rare metals ▪ Jewelry Companies ▪ Oil and gas companies 	<ul style="list-style-type: none"> ▪ HR-agencies ▪ House staff recruitment ▪ Headhunters ▪ Employment Agencies 	<ul style="list-style-type: none"> ▪ Security agencies ▪ Detective Agencies ▪ Armored car services ▪ Security of public and sport events ▪ Information and intellectual security 	<ul style="list-style-type: none"> ▪ Airport security, railway stations, subways, sea and river ports, etc. ▪ Border and customs service ▪ Migration Service ▪ Law enforcement agencies (police, army, special forces, etc.) ▪ Other public authorities and services
Who we are	Psychologists	Casinos & Gambling business		

FRAUDOSCOPE helps you:

1 To check:

- borrowers and their guarantors (individuals and representatives of legal entities)
- current and potential customers
- employees and candidates for the position
- suppliers and contractor
- migrants and candidates for entry into the country (when applying for a visa)
- government officials
- suspects

2 To identify:

- forgery of documents or false information
- intentions and facts of industrial or intellectual espionage
- collusion
- subjects involved in a particular offense
- subjects planning illegal actions
- subjects that hide their past
- terrorists
- drug couriers
- true intentions of potentially dangerous migrants
- subjects involved in illegal war activities

3 To investigate incidents and breaches

4 To prevent leakage of secret (confidential) data

5 To reduce the number of fraud and theft cases

Particular cases of FRAUDOSCOPE usage:

- Identification of true intentions in deals and transactions
- Verification of the data provided (profiles and applications)
- Check the customer (the potential borrower) on the credit worthiness
- Identify shortfalls and thefts in the shop
- Interviewing personnel involvement in the client's deception
- Check the personnel involvement in the leak of information
- Check a potential employee's intentions
- Identification of disloyal employees and intentions of potential employees during hiring procedures
- Audit of staff behavior
- Monitoring responses to innovation
- Verification of the data provided (profiles and applications)
- Check for involvement in terrorist activities
- Identification of drug and arms trafficking
- Check the intentions of government employees
- Screening of migrants to identify hidden threats

Product description

How it works

Advantages

Application area

Who we are

The advantages of using FRAUDOSCOPE:

Product description

How it works

Advantages

Application area

Who we are

Abuse Prevention

Improvement of security level

Optimization of Security Services

Monitoring of employee's activities

Protection and control of information flows

Monitoring and reducing the terrorist threat

Prevention of illegal entry

Crime Reduction

Improved customer service

Management of risks

Prevention and resolution of conflicts

Identification of intent and concealed information

Product
description

How it works

Advantages

Application
area

Who we are

Do you want to test
the FRAUDOSCOPE?

Contact us for demonstration!

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Product description

Tselina Data Lab. is a team of captivated engineers, experienced developers and solution architects.

We design and integrate IT complexes using machine learning algorithms.

We create unique solutions for optimization of business processes and infrastructure.

ask@tsedl.com

How it works

Advantages

Application area

Who we are

Our specialization:

- Machine learning
- Computer vision
- 3D reconstruction
- Big data
- Data mining
- Software & application development

THANK YOU FOR ATTENTION!