



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

提出FRAUDOSCOPE -远程监控，分析复杂的对话者的反应准确性。

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 - 是一种软件算法，采用机器学习技术，计算机视觉和三维人脸重建。要使用它，你只需要一台电脑和一台摄像机。

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

FRAUDOSCOPE允许你分析任何对话者的答复的真实性，无论是：

an employee	潜在客户
a candidate for job	涉嫌犯罪
potential client	公司员工
suspected of an offense	候选人的空缺
a migrant	外来务工

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

FRAUDOSCOPE 能够识别真理与谬误，具有精度高，这将有助于你做出正确的决定！

Accuracy of  
的准确率

**> 75%**

Product description  
这是什么

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

FRAUDOSCOPE 收集数组 对各种生理参数，其中包括35依存关系：

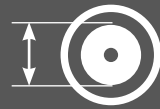
How it works  
它是如何工作



Pulse  
脉冲



Respiration frequency  
呼吸频率



Diameter of pupils  
瞳孔直径



Eye movement  
眼动



Head rotation  
头动



28 face muscles  
面部表情的变化

Advantages  
超值

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

对于每一个组合数据进行复杂计算，包括速度值、加速度和频率值，加上面部的三维重建。

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.

经过数据收集，进行解决问题，其中，利用面试累积的统计数据，FRAUDOSCOPE通过比较、分析、计算和统计特性，预测回答问题的真实性。

Application area  
给谁，为什么

Who we are  
关于我们

## OPERATOR 操作员

- 1 Launch of the FRAUDOSCOPE  
启动 FRAUDOSCOPE
- 2 Uploading of the application form  
申请表上传
- 3 An oral survey of an subject  
对话者的口头调查

## FRAUDOSCOPE

- 1 Video recording of the interview  
视频录制
- 2 Measurement of parameters and data collection  
参数的测量和数据采集
- 3 Analysis of received information  
收到信息的分析

## RESULT 结果分析

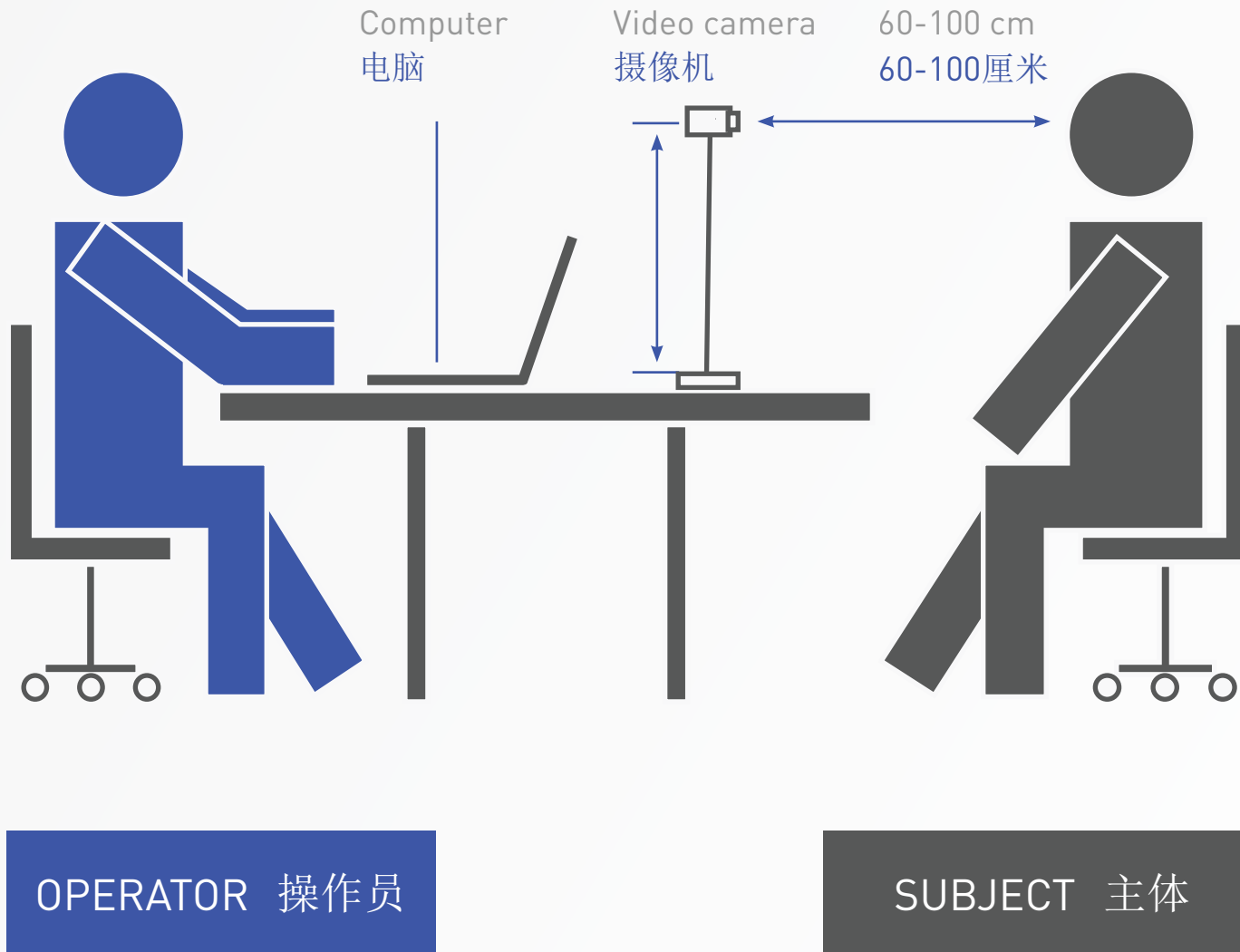
Product description  
这是什么

How it works  
它是如何工作

Advantages  
超值

Application area  
给谁, 为什么

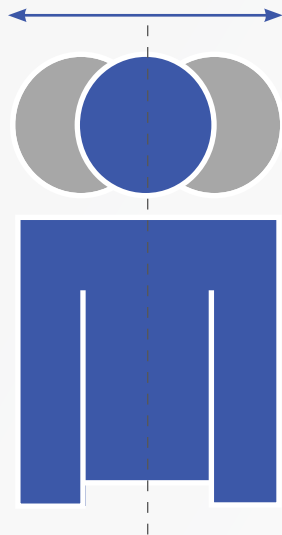
Who we are  
关于我们



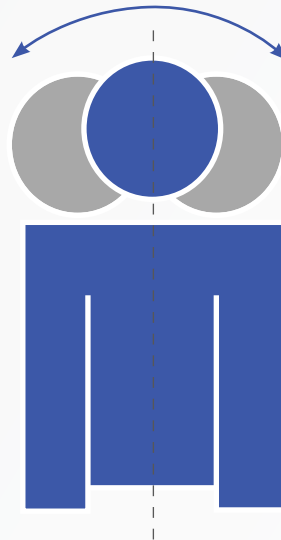
FRAUDOSCOPE doesn't require rigid fixation of the subject and is capable to conduct and analyse statistics at the following turning angles of head:

FRAUDOSCOPE 不需要刚性固定主体，能够转动头时进行测量：

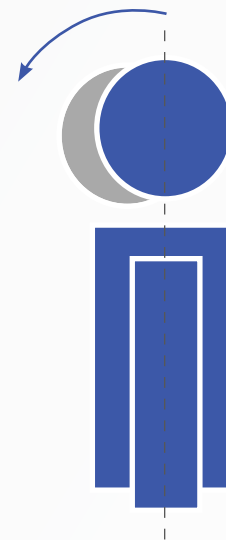
45 degrees  
to the left or right  
左/右45度



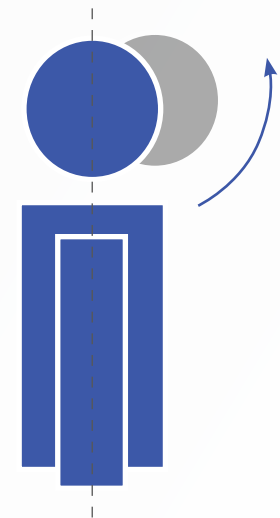
30 degrees  
side tilts  
侧面倾斜30度



20 degrees  
downward  
向下20度



40 degrees  
upward  
向上40度





Product description 这是什么					
How it works 它是如何工作	<b>Easy-to-use</b>  使用方便	<b>Functions autonomously</b>  自主功能	<b>Preventive measure</b>  针对诈骗，盗窃，工业和智力预防措施	<b>Easily scaled and installed</b>  容易扩展和安装	<b>Express results</b>  该研究结果实时生成
Advantages 超值	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 给谁，为什么	该系统不需要特殊的设备，有线传感器或任何其他额外的设备	互联网连接不是必须的，这允许提供额外的保护接收的数据的和私密性。允许使用在封闭的软件网络。	存在FRAUDOSCOPE的办公室和完整理解的员工，他们的非法行为可以被检测到，是一个基本停止因素	很容易安装到现有工作地方：无需额外的员工	在谈话过程中操作员可以看到答复结果
Who we are 关于我们	More efficient and cost-effective than wired polygraph systems and polygraph services due to wireless analysis, user-friendly interface and express generation of result. 比有线测谎服务系统更有效				

FRAUDOSCOPE users:  
FRAUDOSCOPE 适合各个领域使用, 包括

Product description 这是什么	<p>FRAUDOSCOPE users: FRAUDOSCOPE 适合各个领域使用, 包括</p>			
How it works 它是如何工作	<p><b>Finance</b> 财政</p> <ul style="list-style-type: none"> <li>Banks 银行</li> <li>Insurance companies 保险公司</li> <li>Leasing companies 租赁公司</li> <li>Micro-financial institutions 微型金融机构</li> <li>Pawnshops 当铺</li> </ul>	<p><b>Retail</b> 零售</p> <ul style="list-style-type: none"> <li>Retailers 零售商</li> <li>On-line shops 网店</li> <li>Auto/Moto companies 汽车/摩托公司</li> <li>Petrol station chains 加油站连锁店</li> </ul>	<p><b>HORECA</b></p> <ul style="list-style-type: none"> <li>Hotels 酒店</li> <li>Restaurants/café/bars 餐厅/咖啡厅./酒吧</li> <li>Resorts 度假村</li> </ul>	<p><b>Transport companies</b> 运输公司</p> <ul style="list-style-type: none"> <li>Airlines 航空公司</li> <li>Water transport 水运</li> <li>Railway transport 铁路运输</li> <li>Automobile transport 汽车运输</li> <li>Service companies 服务公司</li> </ul>
Advantages 超值	<p><b>Mining and processing companies</b> 采矿和加工 加工企业</p> <p><b>Staff services</b> 人力资源服务</p> <p><b>Security</b> 安全服务</p> <p><b>Government services</b> 政府服务</p>			
Application area 给谁, 为什么	<ul style="list-style-type: none"> <li>Extraction of rare metals 提取稀有金属</li> <li>Jewelry Companies 珠宝公司</li> <li>Oil and gas companies 石油和天然气公司</li> </ul>	<ul style="list-style-type: none"> <li>HR-agencies 人事机构 / 招聘服务</li> <li>House staff recruitment 家庭人员</li> <li>Headhunters 猎头机构</li> <li>Employment Agencies 就业机构</li> </ul>	<ul style="list-style-type: none"> <li>Security agencies 保安机构</li> <li>Detective Agencies 侦探社</li> <li>Armored car services 收藏家服务</li> <li>Security of public and sport events 体育赛事安全</li> <li>Information and intellectual security 信息和智能安全</li> </ul>	<ul style="list-style-type: none"> <li>Airport security, railway stations, subways, sea and river ports, etc. 机场安检, 铁路 车站, 地铁, 海港和内河港口等。</li> <li>Border and customs service 边境和海关服务</li> <li>Migration Service 移民服务</li> <li>Law enforcement agencies (police, army, special forces, etc.) 权力结构 (警察, 军队, 部队特殊用途等)</li> <li>Other public authorities and services 其他政府机构和服务</li> </ul>
Who we are 关于我们	<p><b>Psychologists</b> 心理学家</p>	<p><b>Casinos &amp; Gambling business</b> 博彩业</p>		



Product description  
 这是什么

 How it works  
 它是如何工作

 Advantages  
 超值

 Application area  
 给谁, 为什么

 Who we are  
 关于我们

FRAUDOSCOPE helps you: FRAUDOSCOPE 将帮助你了解:

**1 To check: 检查**

- borrowers and their guarantors (individuals and representatives of legal entities)  
 借款人和担保人 (个人及法人代表。)
- current and potential customers  
 现有的和潜在的客户
- employees and candidates for the position  
 员工和应聘者的职位
- suppliers and contractor 供应商和承包商
- migrants and candidates for entry into the country (when applying for a visa)  
 移民和入境候选人 (申请签证)
- government officials 员工
- suspects 犯罪嫌疑人

**2 To identify: 识别**

- forgery of documents or false information 伪造文件或提供
- intentions and facts of industrial or intellectual espionage 虚假信息意图和工业间谍活动和智力的共谋
- collusion 事实
- subjects involved in a particular offense  
 参与某项罪行的人 那些计划违法行为
- subjects planning illegal actions 人隐瞒自己的过去
- subjects that hide their past 恐怖分子
- terrorists 毒贩
- drug couriers 潜在的真实意图
- true intentions of potentially dangerous migrants  
 危险的移民
- subjects involved in illegal war activities 那些参与非法打斗

**3 To investigate incidents and breaches**

对事件和违规行为进行调查

**4 To prevent leakage of secret (confidential) data**

防止私营 (机密) 数据泄漏

**5 To reduce the number of fraud and theft cases**

减少欺诈和盗窃案件的数量

Particular cases of FRAUDOSCOPE usage:  
在金融领域FRAUDOSCOPE优势:

- Identification of true intentions in deals and transactions  
交易和交易中的真实意图的识别
- Verification of the data provided (profiles and applications)  
提供的数据的验证（配置文件和应用程序）
- Check the customer (the potential borrower) on the credit worthiness  
检查客户（潜在借款人的信用）
- Identify shortfalls and thefts in the shop  
识别不足和盗窃商店
- Interviewing personnel involvement in the client's deception  
面试人员参与客户的欺骗
- Check the personnel involvement in the leak of information  
检查人员参与信息泄露
- Check a potential employee's intentions  
检查潜在员工的意图
- Identification of disloyal employees and intentions of potential employees during hiring procedures  
在招聘程序不忠诚的员工和潜在员工的意图识别
- Audit of staff behavior  
员工行为审计
- Monitoring responses to innovation  
监测对创新的反应
- Verification of the data provided (profiles and applications)  
提供的数据的验证（配置文件和应用程序）
- Check for involvement in terrorist activities  
检查参与恐怖活动
- Identification of drug and arms trafficking  
毒品和武器贩运的鉴定
- Check the intentions of government employees  
检查政府雇员的意图
- Screening of migrants to identify hidden threats  
筛选移民，以确定潜在的威胁

Product description  
这是什么

How it works  
它是如何工作

Advantages  
超值

Application area  
给谁，为什么

Who we are  
关于我们

The advantages of using FRAUDOSCOPE:  
使用FRAUDOSCOPE的优势:

Product description  
这是什么

How it works  
它是如何工作

Advantages  
超值

Application area  
给谁, 为什么

Who we are  
关于我们

Abuse  
Prevention

滥用防治

Improvement  
of security  
level

安全水平的提高

Optimization  
of Security  
Services

安全服务的优化

Monitoring  
of employee's  
activities

员工的活动监控

Protection  
and control  
of information  
flows

保护信息和控制流

Monitoring  
and reducing  
the terrorist  
threat

监控和减少恐怖主义威胁

Prevention  
of illegal entry

非法入境的预防

Crime  
Reduction

减少犯罪

Improved  
customer  
service

改善客户服务

Management  
of risks

风险管理

Prevention  
and resolution  
of conflicts

预防和解决冲突

Identification  
of intent  
and concealed  
information

意图和隐藏的信息识别

Do you want to test the FRAUDOSCOPE?  
你想要测试FRAUDOSCOPE?

Contact us for demonstration!  
联系我们FRAUDOSCOPE工作的示范!

asia@tsedl.com  
+ 86 13751813967 / 网址和电话

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

Tselina数据实验室。是一个团队，工程师和经验丰富的开发人员和解决方案设计师。

We design and integrate IT complexes using machine learning algorithms.

我们设计和集成IT复合，利用机器学习算法。

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

我们创建独特的解决方案，优化业务流程和基础设施。

[ask@tsedl.com](mailto:ask@tsedl.com)

Our specialization:  
 我们的专业:

- Machine learning  
机器学习
- Computer vision  
计算机视觉
- 3D reconstruction  
三维重建
- Big data  
大数据
- Data mining  
数据挖掘
- Software & application development  
软件与应用开发

THANK YOU FOR ATTENTION!

/感谢您的关注!