VibraMI Psychophysiological profiling system Quick Start

VibraMI is based on multiple intelligences theory of Howard Gardner and **VibraImage** technology measured micro movements (micro motion, vibration) of person by standard cameras and image processing. Human head micro vibrations are linked with vestibular-emotional reflex and indicates psychophysiological parameters, emotional state (10print) and personality traits of a person.

Psychophysiological profiling system **VibraMI** intents for the following targets:

- detection of human abilities area for professional activities selection;
- career guidance based on International Standard Classification of Education (ISCED)
- recruiting and professional orientation test;
- profiling and discovering of the personal characteristics;
- HR recruiting.

Before starting

Before starting VibraMI program you must install needs drivers and software:

- Windows 7/8/10
- WDM-compatible video device driver;
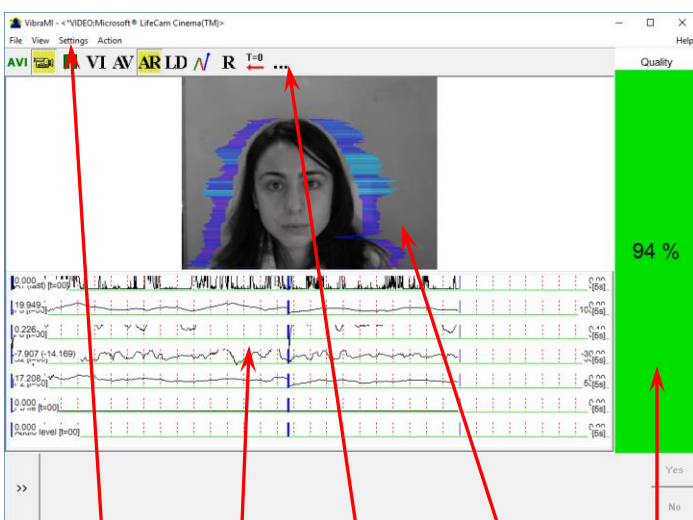- Microsoft Office Excel 2007 or upper
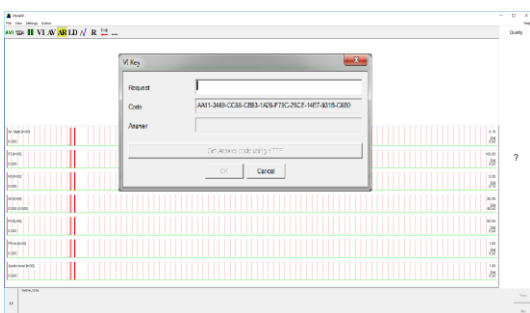
Firstly, you need to activate program by entered activation key or «DEMO_MI» in the field «Request». After start you will see white screen because there was no video source choice. You need select language and stand camera settings.
Recommended webcam is **Microsoft LifeCam Cinema.**

Program start
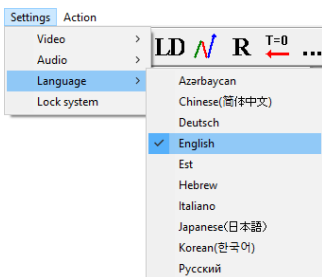
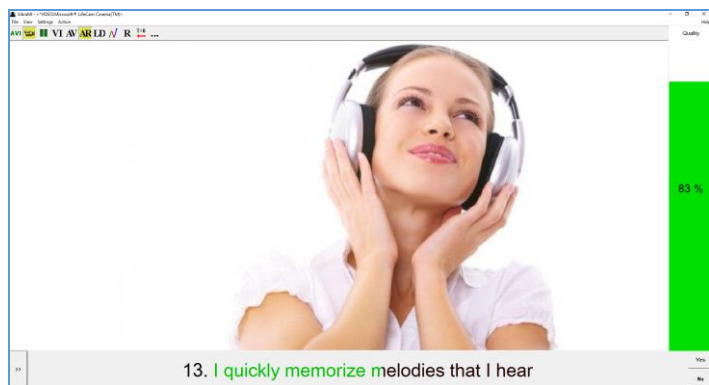Select program language in the menu «**Settings**» => «**Language**»

After correct start of VibraMI in the main window there is an image from connected video device.

Main menu   Graphs   Toolbar   Image area   Quality test

After the choice of the questionnaire file, for example, Gardner_12, the program passes into the mode of reading and visualization of a questionnaire. The person conducting survey reads the questions which are displayed in the karaoke mode.
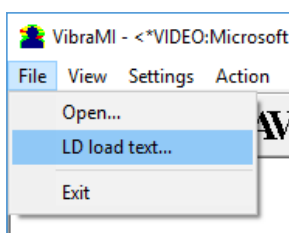
After configuring the settings to get started it is necessary to download a questionnaire and click on the button [»] on the LD bar. You should answer yes or no by pressing the buttons on the right side of LD bar.

1. I enjoy peace and quiet at work & to be alone with my thoughts
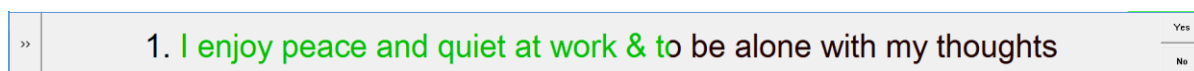
VibraMI data analysis

Excel file with final result opens after test finishing. You need to start macros function in excel file for result processing.
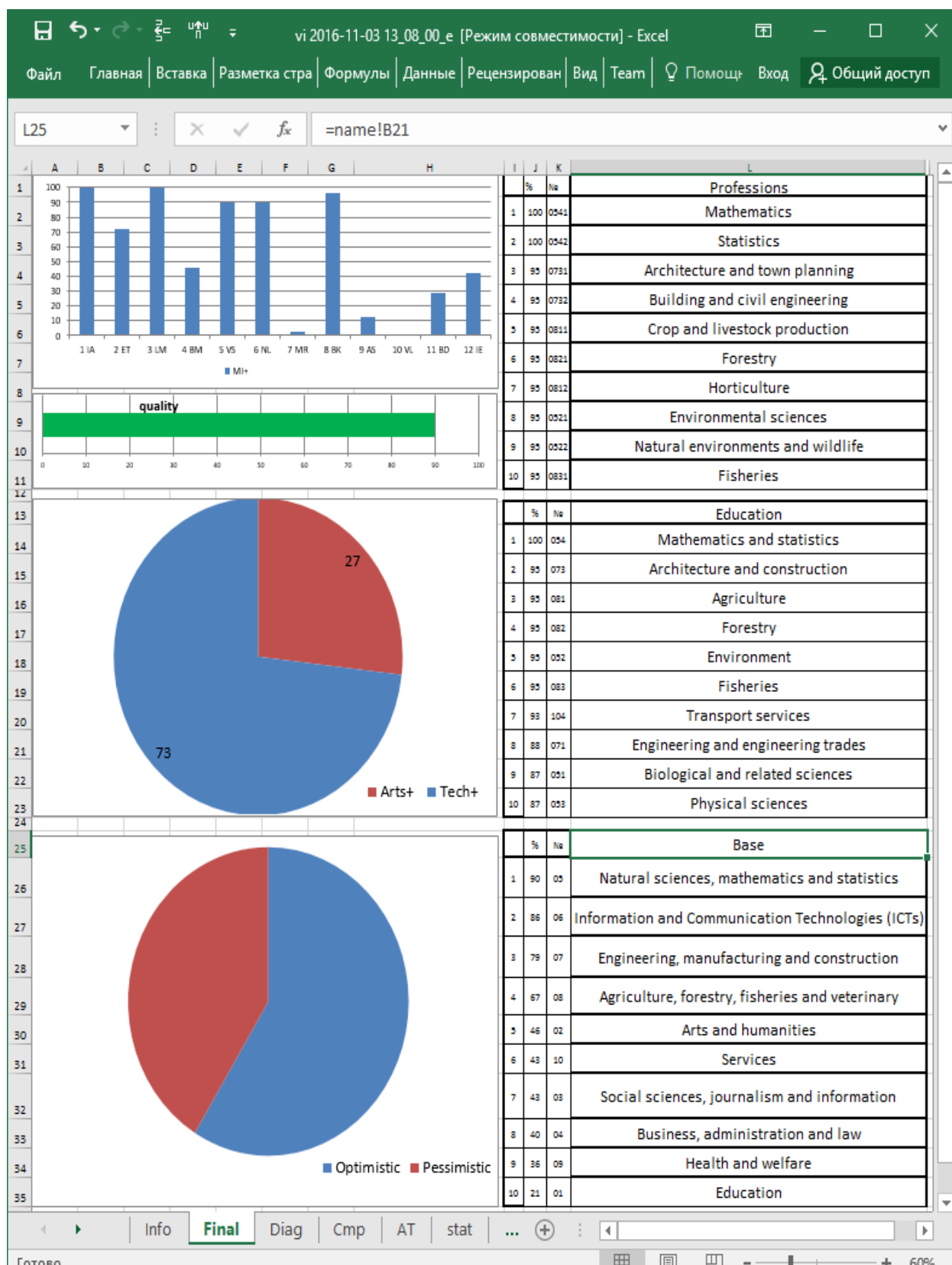
There are **main results** in one file of the «*_e.xls» format (viewing requires existence of the Microsoft Excel program of version 2007 and above). This file contains next information:

- The relation of the person to a certain type of the personality as a percentage is given in the histogram.
- Level of image quality during the test.
  Note, level of quality should be more than 80 % to correct results.
- 2 pie charts with relationship in human propensities percentage of Art and Tech activities and view of life Optimistic and Pessimistic.
- list of skills, education and base of the most suitable for this person

The basis of VibraMI analysis is the comparison and processing of conscious response to questions and shown stimulus (answers Yes/No of the test person) and subconscious human psycho-physiological reaction, measured by vibraimage technology and similar to lie detection. Shown questions and stimulus sequentially are grouped according to the following multiple intelligence (MI) types:

1. Intrapersonal (IA)
2. Existential-Theoretical (ET)
3. Logical-Mathematical (LM)
4. Business-Mercenary (BM)
5. Visual-Spatial (VS)
6. Naturalistic (NL)
7. Musical-Rhythmic (MR)
8. Bodily-Kinesthetic (BK)
9. Ascetic-Sacrificial(AS)
10. Verbal-Linguistic (VL)
11. Arts-Bohemian (AB)
12. Interpersonal (IE)
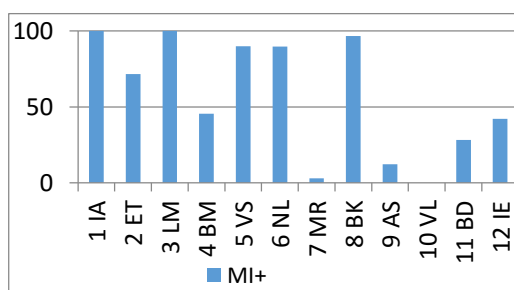
According to this final MI histogram program concludes that tested person has more developed Intrapersonal, Logical-Mathematical and Bodily-Kinesthetic types of multiple intelligences.

|	%	№	Professions
1	100	0541	Mathematics
2	100	0542	Statistics
3	95	0731	Architecture and town planning
4	95	0732	Building and civil engineering
5	95	0811	Crop and livestock production
6	95	0821	Forestry
7	95	0812	Horticulture
8	95	0521	Environmental sciences
9	95	0522	Natural environments and wildlife
10	95	0831	Fisheries

According to certain types of intelligence the program calculates the list of skills the most suitable for this person as **Mathematics and Statistics.**

	%	№	Education
1	100	054	Mathematics and statistics
2	95	073	Architecture and construction
3	95	081	Agriculture
4	95	082	Forestry
5	95	052	Environment
6	95	083	Fisheries
7	93	104	Transport services
8	88	071	Engineering and engineering trades
9	87	051	Biological and related sciences
10	87	053	Physical sciences

The skills under the narrow field are **Mathematics and Statistics, Architecture and construction, Agriculture, Forestry…**

	%	№	Base
1	90	05	Natural sciences, mathematics and statistics
2	86	06	Information and Communication Technologies (ICTs)
3	79	07	Engineering, manufacturing and construction
4	67	08	Agriculture, forestry, fisheries and veterinary
5	46	02	Arts and humanities
6	43	10	Services
7	43	03	Social sciences, journalism and information
8	40	04	Business, administration and law
9	36	09	Health and welfare
10	21	01	Education

Tested person has good abilities in a broad field of skills as **Natural sciences, mathematics and statistics, Information and Communication Technologies, Engineering, manufacturing and construction.**
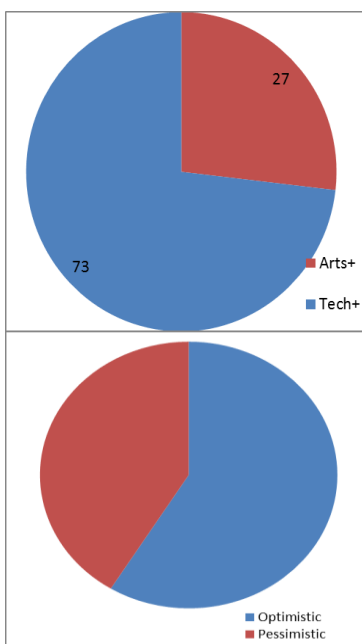
The pie charts show the relationship in human abilities in Arts (27 %) and Tech activities (73 %).

Current relation of tested person to the tested procedure shows levels of Optimism (59 %) and Pessimism (41 %) during answers and response.

Testing Result for mental-functional state

Name	Ivan				ID				123456789
Gender	M				Date	2016-04-06 14:34:45			
Age	33				Σ VI	14,337			

10 Parameter Results

Parameter	Min	Avg	Max	VI	Parameter	Min	Avg	Max	VI
Aggression (20~50)	12,5	49	56,8	22,6	Stress (20~40)	31,1	42,5	46,5	8,5
Tension (15~40)	29,1	47,8	64,0	7,3	Suspect (20~50)	30,3	46,6	52,7	11,5
Balance (50~100)	48,5	60,6	89,0	14,0	Charm (40~100)	51,7	61,5	73,2	9,2
Energy (10~40)	6,9	20,9	29,1	26,1	Self-Regulation (50~100)	52,2	60,3	77,8	10,7
Inhibition (10~25)	6,7	8,6	13,0	16,2	Neuroticism (10~50)	0,0	14	16,1	17,3

Parameter Chart / **Emotion distribution Chart**

Frequency Histogram / **Psy variability - Mental basal metabolism**

Mf	1,712	S	0,503	Psy change rate	26,2-50,6	Kcal/min	2,3-4,2

Result [Quality 78%]

Extraversion	36,4	Stability	53,1

Your testing result for mental functional state is

☒	Normal
☐	To recommend a professional consultation
Comments	OK

For details look VibraMI general Manual.

After the end of test, the user can view **psychophysiological** results in one file of the «*_measurement.xls» format (viewing requires existence of the Microsoft Excel program of version 97-2003 above).

This file includes all gathered information about the current psychophysiological state of person.

Looking statistics of these files changes users can see and control Mental, Emotional and psychophysiological changes.

Mental-Checking result file includes:
- Demographic information;
- 10 print emotion results;
- Emotion parameter chart;
- Emotion distribution Chart;
- Frequency Histogram;
- Psy-Energy metabolism graph;
- Current extraversion-stability level;
- Health conclusion and comments.