IKAR Lab

Professional hardware and software set for advanced audio/speech signal analysis

IKAR Lab software and hardware solution provides the capabilities to perform a multitude of valuable audio processing, analysis and biometric matching functions.
It is widely used by law enforcement agencies, government institutions and private forensic analysts all over the world.
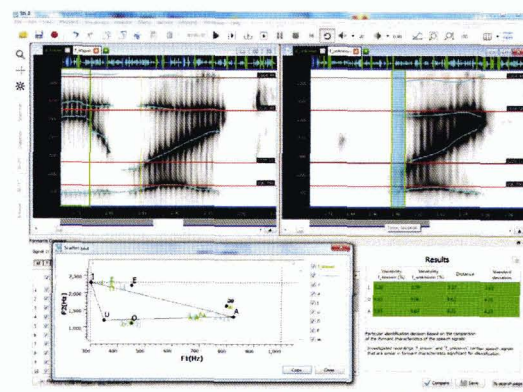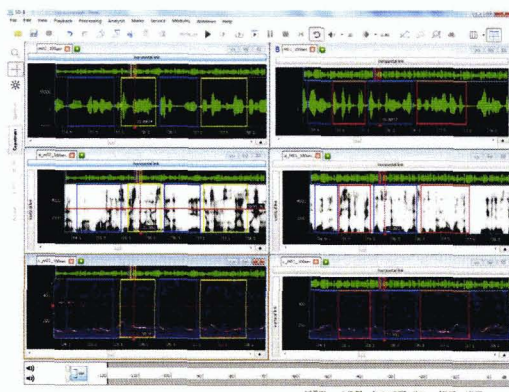
IKAR Lab provides:

- Audio visualization, processing and analysis
- Speech enhancement and audio restoration
- Authenticity analysis of audio files to detect tampering and editing
- Audio database management
- Manual or automatic biometric voice matching
- Taking voice samples
- Report and charting capabilities to provide court accepted evidence output

IKAR Lab is comprised of Speech Technology Center advanced and time-tested technologies and algorithms which are already in use at over 450 installations in more than 60 countries world-wide making it the most popular suite of audio processing, analysis and voice biometric matching tools available today.

Forensic Audio Workstation

Forensic Audio Workstation includes powerful tools for audio processing, automatic and human-assisted speakers comparison. It renders an invaluable help in automation of time-consuming identification tasks, such as searching for comparable words, sounds or pitch patterns, matching of pitch and formants and producing numeric results and overall text identification or elimination conclusion.
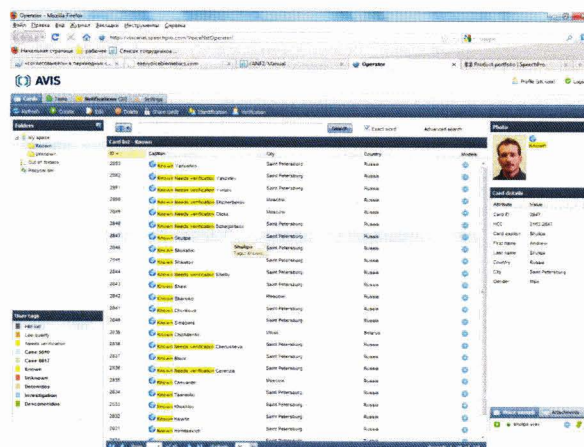
FAW also provides unique instruments for audio authenticity analysis.

VoiceGrid Local

VoiceGrid Local provides essential forensic database management and voice identification functionality. Any voice recording that forms part of an investigation is added to the database with an accompanying case description, along with information and photos pertaining to the speaker.

- Create, monitor and manage the voice database.
- Quickly identify or eliminate speakers under investigation
- Interfaces directly to Forensic Audio Workstation for expert analysis
- Live enrollment from Voice Sampling Workstation
- Batch input and data migration

Sound Cleaner II

Perfect for beginners and audio professionals alike, Sound Cleaner II noise reduction software performs a full spectrum of noise filtering and sound enhancing tasks. Audio enhancement and filtering is fundamental in law enforcement and private agencies that handle audio evidence. Whether the aim is to eliminate interference to improve voice clarity or to remove background noises for better analysis, Sound Cleaner II noise reduction software is the ideal solution.

Sound Cleaner II uniquely combines state-of-the-art noise filtering algorithms and speech enhancement tools in one product. Each module can be easily activated and combined with others in the filtering workflow, so that any changes in the audio can be heard intelligibly and on-the-fly.

ANF II

ANF II produces professional results while being intuitive and easy-to-use, requiring no special knowledge in digital sound processing. Adaptive noise filters yield immediate results and allow adjustments to be instantly audible. All settings and controls can be adjusted via the front panel of the device, remotely via web-interface, or from the computer via USB cable.

When connected to a local network, the ANF II works as a full-fledged noise-processing server. The device can be controlled and all the settings can be adjusted remotely via web interface. The device improves the quality and intelligibility of speech signals recorded by the device or uploaded to its removable memory card.

Voice Sampling Workstation

VSW is the complete software and hardware solution for taking voice samples of speakers under investigations.

- MultiPassport software
- 2 USB-powered microphones
- Gnome-P: mini digital voice recorder

Training, theoretical and practical support

Audio forensic training is a part of audio lab efficient work. STC courses are designed to provide the student with detailed theoretical and hands on training on the suite of audio forensic products and methods used for different types of examinations.

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