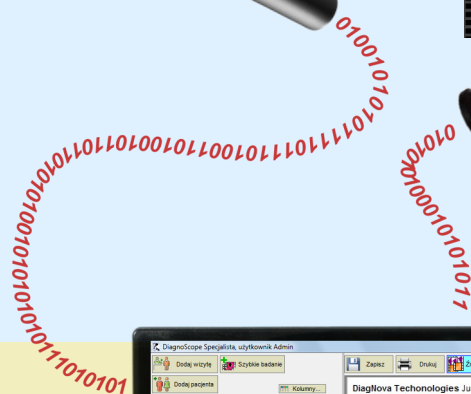
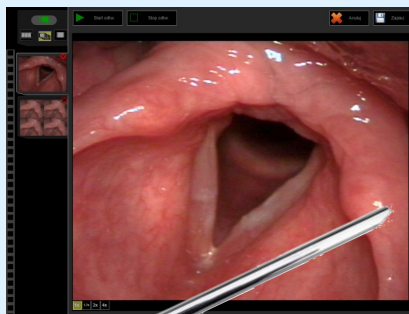
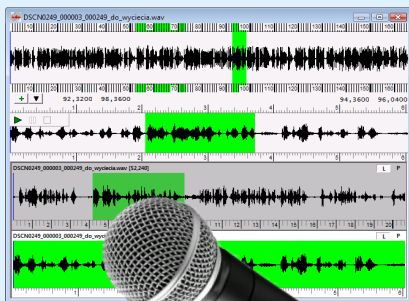


# DiagnoScope SPECIALIST

Your specialist in multimedia medical data analysis



DiagnoScope Specjalista, użytkownik Admin

DiagnoNova Technologies Just i Tyco sp. j.  
Ośrodek analizy akustycznej  
ul. Muchoborska 18, 54-424 Wrocław  
tel. 71 798 5725, [www@diagnova.pl](mailto:www@diagnova.pl)

Imię	Data urodz.	Raporty (wzrost)
Anna	1942-03-05	2015-06-27
Anna	1976-05-24	2015-05-27
Jan	1952-09-19	2015-06-27
Jan Jerzy	1942-03-27	2015-06-27
Anna	1956-11-15	2015-05-27
Ewa	1948-12-24	2015-06-27
Hanna	1941-12-14	2015-06-27
Krysztyna	1932-07-16	2015-06-27
Ewa	1955-09-29	2015-06-27
Lucjan	1957-02-28	2015-06-28
Ewa	1952-12-03	2015-05-28
Jan	1948-09-29	2015-06-28
Hanna	1932-05-17	2015-06-28
Jocystan	1965-05-28	2015-05-28
Marian	1958-07-05	2015-06-28
Marian	1958-05-27	2015-06-28
Piotr	1965-01-28	2015-05-28
Bernadeta	1958-01-15	2015-06-28
Jan	1941-04-17	2015-06-28
Jerzy	1935-10-01	2015-05-28
Barbara	1957-04-20	2015-06-28
Marek	1962-05-04	2015-06-01
Elżbieta	1935-08-02	2015-07-01
Irena	1958-01-08	2015-07-01
Krzysztof	1979-06-25	2015-07-01
Zdzisława	1955-11-29	2015-07-01
Jan	1957-01-01	2015-07-01
Jan	1934-09-13	2015-07-01
Jan	1947-07-30	2015-07-03
Wawaw	1957-03-18	2015-07-03
Janina	1940-05-20	2015-06-28
Janina	1951-12-28	2015-05-28
Włodzisław	1913-01-26	2015-05-28

## Patient data storage:

- storing and archiving of patient data, issuing referrals and medical certificates
- easy and quick reporting from templates for all types of examination
- advanced semi-automatically created visit reports for any type of examination
- increased data integrity and safety with a unique mechanism of doubled data storage
- in the network version – working on multiple workstations in LAN with shared database

## Image recording and analysis:

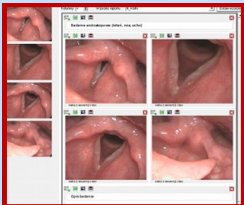
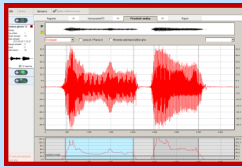
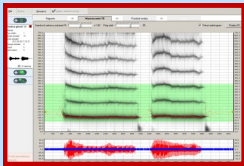
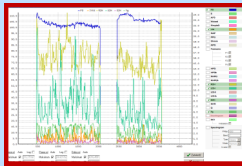
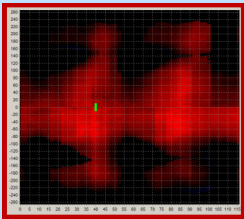
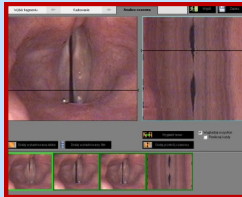
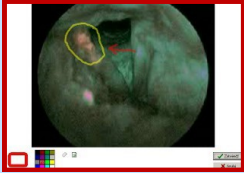
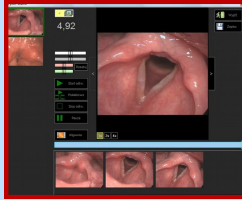
- capturing images from endoscope cameras or other imaging devices
- video recording, frame series or single frames recording
- support for standard and chosen HD cameras
- kymography – vocal folds function analysis in time interval at any selected cross-section
- extended kymography with numerical parameters of vocal folds function and phonovibrograms (PVG)

## Voice analysis:

- for laryngology, phoniatriy, speech therapy and neurology specialties
- classical diagnostic voice analysis
- voice capacity analysis
- vocal loading test
- speech disfluency analysis
- singers' voice analysis
- oscillograms, spectrograms, parametric and formant analysis, protocols: GRBAS, VHI and other

Over 10 years of experience in data analysis

# DiagnoScope SPECIALIST



## Medical history:

- storing and archiving of patient data, visit reports and multimedia source data;
- easy browsing and instant access to all visit reports;
- quick access to the video sequence corresponding to a frame in an archived visit report;
- special functions for data comparison and extension of an existing report;
- optional templates for referrals and medical certificates;
- mechanism of doubled data storage (continuous and unattended data security);
- work in a computer network with common database and storage medical documentation.

## Video recording:

- video recording, frame series and single frames capture;
- "on-the-fly" brightness, contrast and color adjustment, variable magnification;
- "in advance" recording to compensate for hardware delays and human reaction time;
- cooperation with many video sources on a single workstation;
- special functions to take advantage of chosen HD cameras.

## Selecting and pasting frames from video sequence to the visit report:

- comfortable and intuitive frame selection window;
- play video in slow motion or frame-by-frame;
- picture description;
- image correction – brightness, contrast, color adjustment and magnification;
- marking selected parts of the image with colors.

## Kymography:

- analysis of the vocal folds function in time domain at any selected cross-section of the fold;
- creating phonovibrograms (PVG) and calculating numerical parameters describing the function of vocal folds;
- analysis of standard stroboscopic videos as well as high-speed camera records.

## Voice recording using a microphone:

- automatic record quality checking;
- simple sound editor functions.

## Acoustic voice analysis:

- fundamental frequency ( $F_0$ ) analysis with charts (*pitch charts*);
- inverse filtering – glottal source signal estimation and closure moments detection;
- oscillograms and wide- or narrow-band, resonant and other types of spectrograms;
- parametric analysis – all classic parameters (Jitter, Shimmer, NHR and more) and formant;
- visual chart editor with magnification function;
- special vocal performance test, vocal load test, and singers' voice analysis modules;
- voice assessment protocols GRBAS, VHI and other.

## Advanced semi-automatic reporting:

- visit reports automatically created from templates;
- visit reports automatically filled with selected images;
- visual editor with configurable shortcuts/suggestions and "drag and drop" technology;
- quick pasting of selected images from the list to a report;
- additional templates on customer's demand – easy and quick description of examinations;
- exemplary templates for laryngology, phoniatriy and ultrasound imaging.

## Hardware requirements:

- operating system MS Windows XP/Vista/7/8 32-bit or Windows 7/8 64-bit;
- processor Pentium III or Athlon 64 800 MHz, recommended minimum Intel Core i3 2500 MHz;
- RAM 512 MB (XP) or 768 MB (later systems), recommended minimum 2048 MB;
- sound card compatible with DirectX 9, for recording also digital audio interface;
- graphics card compatible with DirectX 9 (recommended Intel HD Graphics 2000/3000/4000, NVIDIA 8400);
- video grabber compatible with DirectShow (DirectX 9), external (USB) or an expansion card;
- screen 1024×768 (recommended 1920×1200) with 24/32-bit color depth.

## DiagNova Audio Interface – digital audio interface dedicated for DiagnoScope:

- measurement of sound intensity absolute value;
- audio recording with two-channel system with resolution of 24 bits/sample;
- works with dynamic and capacitive microphones (*phantom power*);
- full access to the interface settings from program DiagnoScope Specialist.

## Manufacturer:

DiagNova Technologies  
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Muchoborska 18, 54-424 Wrocław, Poland  
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