



Digital Video Laryngoscopy

Vocal cords video examination (Laryngoscope examination) suffer from an inherent problem, the recording camera frequency is much lower than the frequency of the moving vocal cords causing “aliasing” – inability to see the vocal cords clearly. Currently to overcome this, a large and expensive device called a Stroboscope is being used.

We suggest using a different approach, using a software solution based on image and signal processing that enables getting a clear view of the vocal cords without the need for any machinery. We call this method “Digital Stroboscopy”.

Using Digital Stroboscopy, we can transform any Laryngoscope examination to a Stroboscopy examination. This means that physicians can do a better diagnosis, benefiting both their patients and the insurance companies that will avoid paying for unnecessary biopsies.

Being able to conduct Stroboscopy exams rather than Laryngoscopy exams is worth a lot of money since the reimbursement code for a Stroboscopy exam is worth more than double that of the Laryngoscopy exam. Removing the need of expensive and big hardware will also enable the use of digital Stroboscopy in home visits and in developing countries thus, increasing the current market size.

Our business model is based on a one time purchase per device, or a payment per exam and a monthly/annual subscription plan for support, updates and additional services.

DVLS team:



Gon Shoham

BSc in electrical engineering, currently perusing a MSc in Bio-medical engineering, graduating from medical school, all in TAU. Intern at TLVMC, published more than a dozen papers and chapters, mentored undergraduate projects for the past three years



Omri Armstrong

BSc in electrical engineering from the Technion. Currently perusing a MSc in Electrical Engineering with specialty in Computer Vision & Deep Learning. Working at Microsoft for the past several years, have taken part in design and development of various