

## Medical Examination of Skin Cancer

In the last few weeks of further development with our basic project, we have reached further possibilities.

- The found the right usage for dermatological examination
- In further use we found out that the software what we use for the ortopedic diagnosis is in basically the base for this is already made for further eliorations to this way. So it will be possible to have the same device for both medical sectors, as different applications.
- We have recognized that this way we can create a device for home usage as well.

This project is not finished yet, and it needs further development of 12 months and 1,800 000 USD of funding.

The costs for the development are significantly part in the needed hardware base, because it is important to create a easily and inexpensively produceable device. For this we have our results in the research already in the experimental stage, but those results were already showing the right direction.

The usage and application of the finished device

The device can check the birthmarks and other spots and moles on the skin, it can analyze the negative, maling disorders. It will save the 3D image file of the body and the skin (urface of the body) so that way it gets possible to check back, and later it will be possible to compare if there are any further changes on the skin. That way it will be fast and easy to diagnose any further disorders on the body, and it will be amazingly easy to use for appropriate treatments. It will recognize also the smallest changes on the skin, evan if that is a small birthmark. It can recognize all three sorts of skin cancer.

- Based on epithelium part of the cell that is the starting from the basal cell carcinoma (carcinoma basocellulare)
- Spiny strata based spinalioma, which is located above the basal epithelial cells (carcinoma spinocellulare)
- Melanoma in the epithelium located pigment-producing cells (melanoma malignum)

In the language of medicine when we talking about skin cancer, basalioma and spinalioma is what we mean by that mostly, but althought these are carcinomas, they are usually not deadly diseases. Melanoma is frequent carcinoma, which is unlike the other types of skin cancer, is spreading from the pigment cells, which are not the part of the skin structure itself, but they are parts of the nerve cells. Melanoma is a very agressive disease, and potentially it is deadly, nevertheless it is healed in the beginning stage.

If someone recognizes the similar or exsact symptoms of Melanoma, should make the identification, and go as fest to the doctor as possible. But to make the right desizion, those persons, who has a tendency for any cancer type, should have a our device, to make regular control especially in sunny times.

The marketability of our devicee is endless, for the households.