

The CUNY Center for Advanced Technology In Photonics Applications (CUNY CAT)  
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## Skin Scanner *Diagnosing Tissue with Light*

A hand held optical imaging system has been developed that uses the properties of light and its interactions with the skin to provide a powerful tool that can aid in the diagnosis of skin lesions such as skin cancer. The method is non-invasive and uses non-ionizing radiation to probe for skin lesions, diseases of the skin or skin disorders without damaging healthy tissue. The Skin Scanner has the potential to improve the ability to screen and diagnose basal cell carcinoma (BCC), squamous cell carcinoma (SCC), and malignant melanoma.

Using Visible and NIR tissue imaging spectroscopy such as with the Skin Scanner (US Pat.6, 587,711) for the early detection and monitoring of morphological changes at the surface and subsurface of the skin is a viable and simple solution for the diagnoses of skin disorders.

**Potential Applications:**

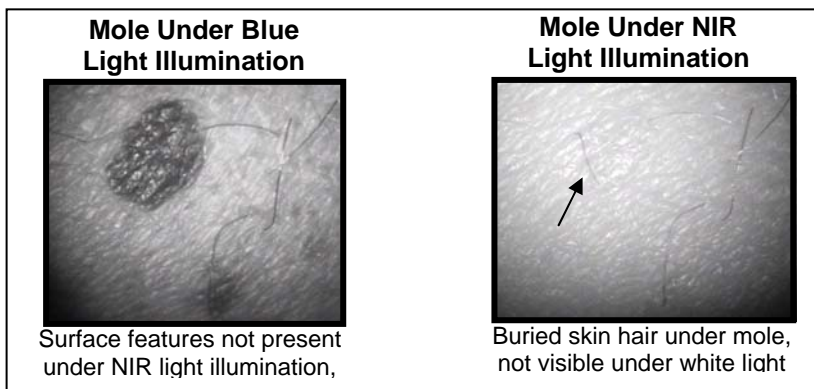
- Skin Cancer Imager
- Various Skin Disorders
- Skin Lesion Screening and Diagnostic potential capabilities

**Other Areas:**

- Connective Tissue Disease
- Cosmetics and Pharmaceutical Testing

**Benefits:**

- Non-invasive. No tissue removal required.
- Rapid measurements with real time results.
- High spatial resolution
- Surface and Subsurface Spectroscopy Imaging capabilities
- Potential to detect precancerous conditions.



This technology opportunity sheet describes continuing efforts in this area. Several patents may have been issued or are pending and which may be available for licensing.

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