DermaScan® C USB

Main Specifications
- Real-time scanning at 6-8 frames per second
- A/B/C-mode scanning
- Selection of broadband transducers from 20 - 50 MHz
- Swept gain adjustment of both level and profile
- Autosave function
- Zoom and scroll feature
- Automatic cineloop recording of 100 images
- Advanced measurement functions including ROI, edge detection and intensity segmentation
- Tiff and jpg format conversion
- Storage of individual images as well as complete cineloop
- Probes with closed water chamber
- Windows based user interface

Safety
- Complies with international safety regulations and quality standards incl. EU and FDA requirements

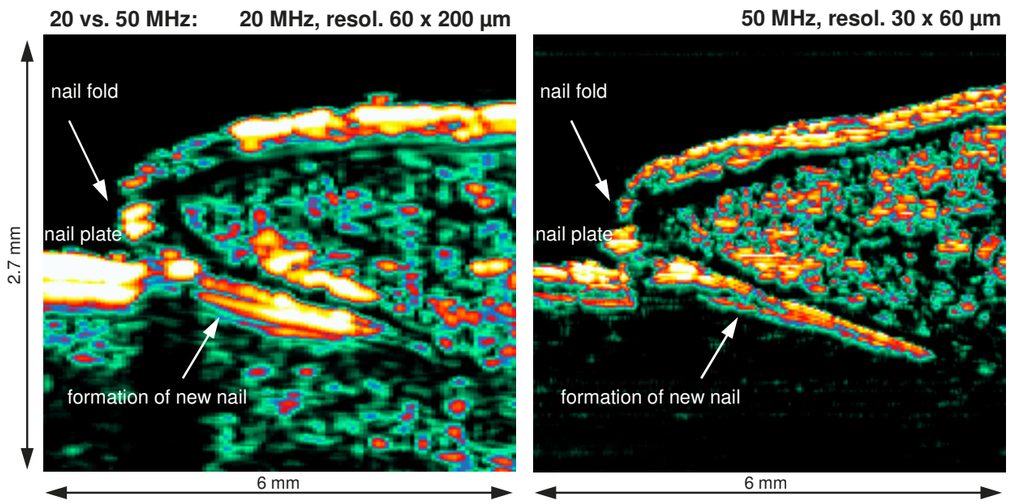
Power Requirements
- Line voltage 100-240 VAC, 50 / 60 HZ
- Power consump. max. 120 W

Environment
- Operating temp. 10-40 °C
- Humidity 10-90% RH non-condensing

Misc.
- Extended upgrade and warranty program available

Transducer selection chart	20 MHz std. focus 60 x 150 µm (ax. x lat.) High definition Max. 15 mm penetration	20 MHz long focus 60 x 260 µm (ax. x lat.) High penetration Max. 23 mm penetration	50 MHz 30 x 60 µm (ax. x lat.) Very high definition Max. 3 mm penetration
2D probe 12.1 mm line scan	Standard	Optional	Optional

Specifications are subject to change without further notice



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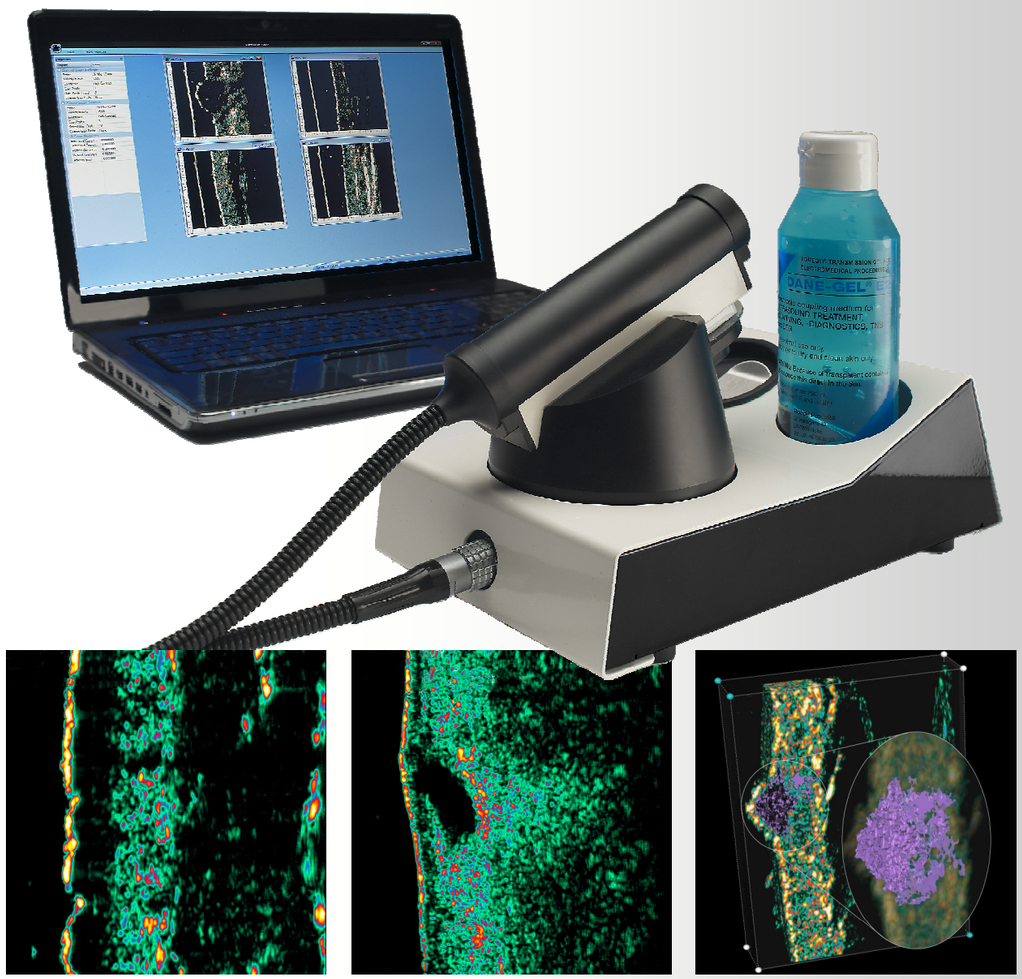
DermaScan® C USB

High Frequency Skin Ultrasound



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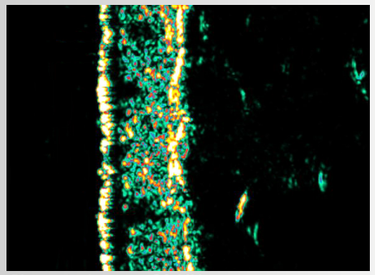
DermaScan® C USB

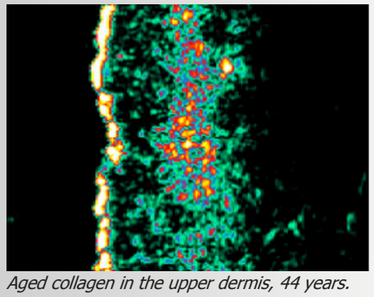
...pushing the limits



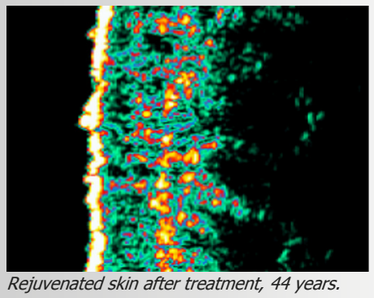
Pigmented nevus, 20 MHz.

Rear panel connectors.

Typical scanning site, photo-aging application.



Aged collagen in the upper dermis, 44 years.



Rejuvenated skin after treatment, 44 years.

Ultra compact, light weight, outstanding image quality and reliability - just a few words describing the latest evolution in our DermaScan® C Series of high frequency ultrasound skin imaging systems - the DermaScan® C USB.
This full-featured unit is loaded with all the features needed to capture and thoroughly analyze high resolution ultrasound images of skin in just a few moments, and the compact and highly portable design facilitates convenient transportation in just a normal sized computer case.

A selection of dedicated ultrasound probes and transducers plus the advanced image analysis software makes the DermaScan® C USB the most versatile and comprehensive concept available. The lunchbox-sized 2D imaging USB scanner offers a fully integrated solution loaded with features, and scanning at frequencies up to 50 MHz to ensure unmatched high definition skin imaging in real-time.

Our scanners are based upon a PC platform operating under MS Windows thus providing the most user friendly and flexible operation.
Multiple ultrasound recordings may be simultaneously displayed, and in addition the system automatically memorizes the last 100 images covering a recording sequence of approximately 15 seconds. This so-called cineloop function allows the operator to go back in time to search for an image of particular importance. The full sequence or just individual images may be stored as needed.

For the purpose of archiving, analysis and presentation the built-in software provides conversion capabilities to other popular image formats in addition to the internal format used by the system, and numerical measurement data may be separately exported and inserted into spreadsheets.

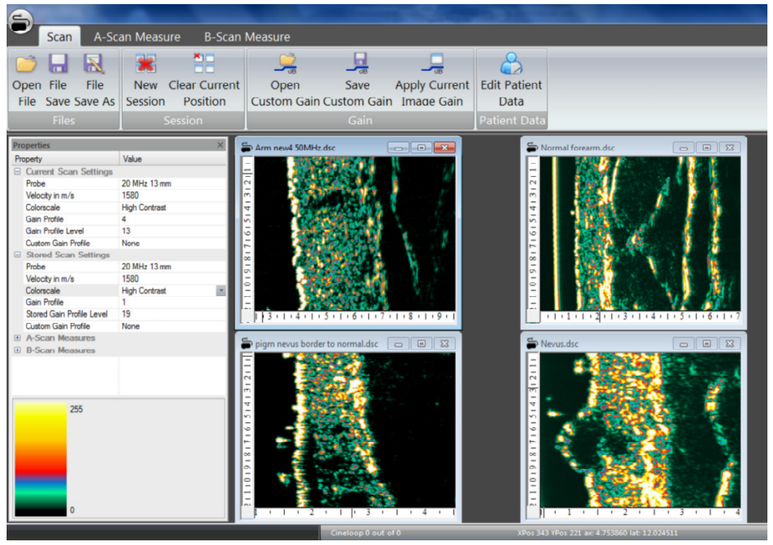
All systems offer identical hardware prepared for 20 - 50 MHz scanning probes but may offer different software configurations - from strictly imaging to full measurement and image analysis capabilities including distance and region-of-interest calculation, automatic edge detection and intensity segmentation.

The DermaScan® units, as with all our products, are designed and manufactured according to current international safety and quality standards including regulatory EU and FDA requirements.

All scanning probes are manufactured using dedicated high precision mechanics. They are designed with double internal waterseals and counterbalanced action for maximum reliability and smooth operation.
An essential feature of the probes is the integrated optical positioning system, which is incorporated to ensure high precision sampling at high scanning rates.

The snap-on front piece is mounted with a special membrane with low attenuation to facilitate scanning and prevent water spillage.

To provide optimal resolution and image clarity, all probes are being individually calibrated according to the focal length of the actual precision focused ultrasound transducer.

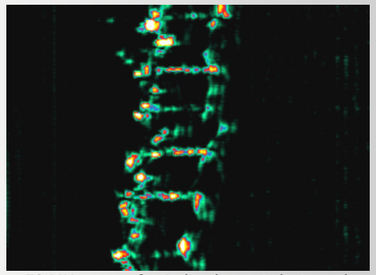


2D split screen view

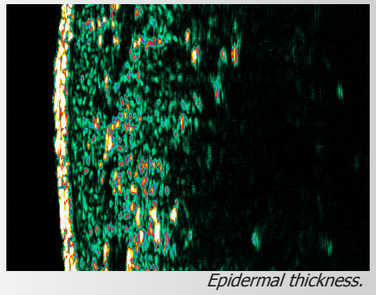
Thanks to the Windows user interface, the operation of the system will appear familiar to any PC user. Accordingly, only minimal training is needed.

The DermaScan® C USB has various applications including non-invasive visualization and quantitative estimation of skin tumors, Psoriasis, Scleroderma, ageing studies, Cellulite and efficacy testing of cosmetics and pharmaceutical products.

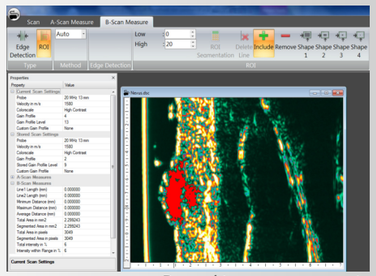
Another field of application is monitoring the collagen effect of skin rejuvenating procedures whether as a result of non-ablative laser treatment or the use of skin rejuvenating cosmeceuticals.



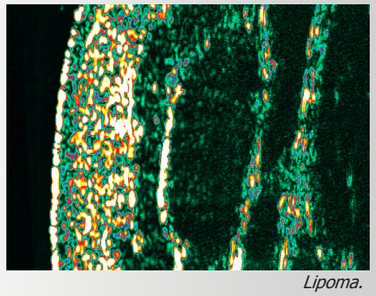
50 MHz scan of spiralized sweat ducts, palm.



Epidermal thickness.



Dermal tumor assessment.



Lipoma.

2D scanning probe detail.