

ERGOScan™

HANDY 3D ~~SCAN~~ SCAN



PERFECT FIT.
QUICK & CONTACTLESS PROCESS.

ERGO™
SCAN



3D SCANNING THE HUMAN BODY: INTRODUCING THE ERGOscan™

THE TRULY PORTABLE, SELF-POSITIONING HANDHELD ERGOscan™ LASER SCANNER DELIVERS GREAT BENEFITS FOR THE MEDICAL AND BIOMECHANICS INDUSTRIES. THE ERGOscan IS A HIGHLY INNOVATIVE 3D SCANNING DEVICE THAT PROVES EXTREMELY USEFUL AND EFFICIENT IN THE FIELDS OF ORTHOTICS AND PROSTHETICS, AMONG OTHERS. THANKS TO QUICK SHAPE ACQUISITION AND VERY HIGH ACCURACY, THE ERGOscan TECHNOLOGY ALLOWS THE PRODUCTION OF CUSTOMIZED AND PERFECTLY-FITTED DEVICES AND MAKES FOR REDUCED TURNAROUND TIMES. PLUS, IT OFFERS A GREAT ALTERNATIVE TO TRADITIONAL METHODS.



APPLICATIONS & SOLUTIONS

– **Orthotics/Prosthetics:**

Custom-making of artificial limbs or body part replacements.

The limb to be fitted is scanned, and the data acquired is transferred into CAD applications for design, measurement, rectification, retrofit, and production purposes.

Loaded/unloaded 3D digital impressions (foot imprints).

– **Cranial Scans:**

For the treatment of positional plagiocephaly in infants: non contact and quick measurement of the skull for digital manufacturing of soft shell therapeutic helmets and follow-up on the treatment.

– **Plastic/Aesthetic Surgery:**

3D scanning of body parts (ear, hand, foot, nose, breast) in order to produce a perfectly fitted and exact match prosthesis or reconstruction.

– **Podiatrics:**

3D scanning of the feet/toes/ankles for the manufacturing of customized podiatric orthosis or apparel.

– **Wound Care:**

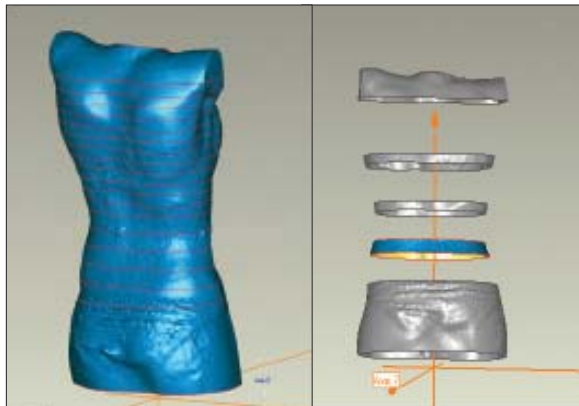
Non contact and painless 3D scanning of wounds for treatment and follow-up purposes (ex.: depth and length measurement at different stages of the healing process).



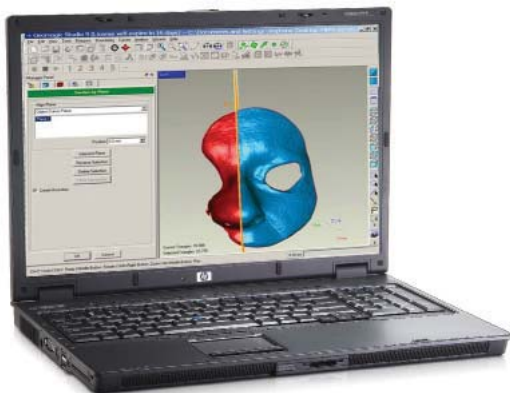


BENEFITS

- **Laser-accurate measurement:** The shape acquired is very accurate and constant, no matter who takes the measurements and how, or in what environment it is done (vs manual measuring).
- **Totally eye-safe laser:** Our class I laser guarantees patients' and technicians' absolute eye safety.
- **Quick data acquisition:** Scanning sessions are short, which reduces the consultation duration and makes it possible to see more patients.
- **Quick file transfer:** The system generates direct 3D files that can be electronically transferred in seconds.
- **User-friendly:** The session can be paused and resumed if necessary. Very short learning curve; no extensive training required.



- **Non sensitive to movement:** Even with slight movements from the patient, the system is able to pursue the data acquisition without any loss in accuracy.
- **Non invasive:** Non- contact scanning process, thus reducing the trauma and discomfort of patients.
- **Truly portable and lightweight:** Fits in a suitcase the size of a carry-on. Can be carried effortlessly from one room/facility to the other, or directly to the patient's home.
- **3D archiving:** The future is now! The system generates 3D files that can be archived in electronic medical record databases: no more heavy casts and moulds to warehouse and organize.
- **Clean:** Great alternative to traditional, laborious and messier casting methods.



Each ERGOscan comes with VxScan™, Creaform's proprietary data acquisition software that powers the Handyscan 3D laser scanners line-up. This software provides true automatic multiresolution and real time 3D rendering visualization. VxScan is easy to learn and use, and offers powerful options such as enhanced direct .stl generation, surface reconstruction, surface optimization algorithms, improved compatibility (64 bits) and more!

TECHNICAL SPECIFICATIONS

Weight	980 grams (2.1 lb)
Dimensions	176 x 284 x 209 mm (6.9 x 11.1 x 8.2 in)
Measurements	18,000 measures/s
Laser Class	Class I (totally eye-safe)
Resolution in Z axis	0.1 mm (0.004 in)
Accuracy	Up to 0.5 mm (0.02 in)
Depth of field	30 cm (12 in)

Included:

- Carrying case
- Calibration plate
- Ergonomic support
- FireWire cable
- ExpressCard connecting card
- Power supply
- 2,500 reflective targets
- 1-year warranty on parts and labour



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3D TECHNOLOGY AND DIGITAL SOLUTIONS