

## The **FotoScan 3D** (™) **Mobile Foot Scanner** – a truly portable foot scanning system

**FotoScan 3D is a unique scanning system that creates instant 3D digital casts and delivers accurate and repeatable foot measurements.**

**A FotoScan 3D foot scan is a quick and simple photographic process, taking only a few seconds per foot. The result is a 3D digital cast, accurate to within 0.5 mm, that can guarantee the provision of high quality footwear and orthotics.**

**Uniquely, FotoScan 3D digital casts can also be displayed and saved in full colour. So as well as obtaining the detailed foot shape, you can also accurately measure and monitor ulcers and other serious skin conditions.**

### Leading-edge technology...

The FotoScan 3D foot scanner is the result of over 10 years of British research and development. It combines a practical, open platform hardware design with the most advanced stereophotographic software technology, to automatically create precise 3D images of the human foot from instant photographic scans.

Unlike complex and fragile laser-based systems, FotoScan 3D is a completely solid-state device that operates in normal lighting conditions. Instead of lasers, it uses a fixed system of cameras and projectors to capture simple digital images of the foot. Its 3D software then converts those photographs into highly accurate 3D foot models in a fast and fully automatic procedure.

A key benefit of FotoScan 3D is the 3D colour images it produces. This allows a deeper understanding of the digital foot shape for shoe and orthotic manufacture, improving quality and fit of medical devices. It also makes it possible to measure and monitor skin conditions, such as ulcers, and maintain records of treatment effectiveness.

### Easy to use...

FotoScan is as easy to use as a digital camera. The customer or patient stands on the platform and places one foot on the transparent plate in the centre. The operator clicks the Scan button, the foot is illuminated and the photographs taken. The whole process is fully automatic and takes around 4 seconds. You simply repeat the process for the other foot and the scanning operation is complete.

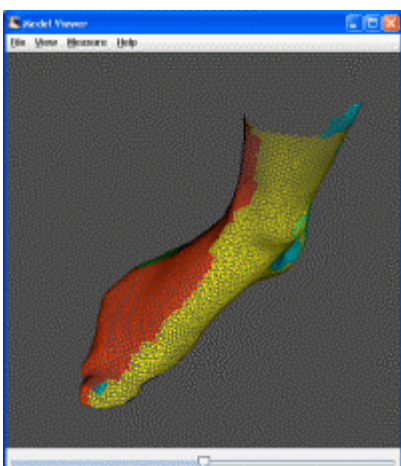
Creating a 3D digital cast from the scans is a one click operation that can be done with or without the presence of the patient. The data is then instantly available for examination and measurement.

### Fully portable...

The FotoScan 3D Mobile foot scanner is transported in a few easily carried sections and assembled onsite in less than 5 minutes. It can be moved and set up by one person only. Uniquely, it uses a patented design that means that it does not require any calibration on re-assembly - you just plug it straight into your laptop and start scanning. It is the only truly portable full foot scanning system on the market.

FotoScan 3D is a flexible and versatile system. It can scan bare feet of any skin colour and any colour of sock or stocking. It will also scan foam boxes, plaster socks and casts. It is largely impervious to lighting conditions and can be used reliably in darkened rooms or brightly lit environments.

Like the standard foot scanner, it is designed to be easy to stand on and safe to move around. Its open platform design makes it easy to place the foot in a corrective position and allows the operator to ensure that the most useful 3D digital cast is obtained. The Mobile version also has a built-in grab rail, so the scanner can be placed anywhere in the clinic and used in complete safety.



**FotoScan** creates a full colour 3D image of the foot as well as accurate CAD data



## Precise foot measurement capabilities...

The FotoScan 3D Measure system is supplied as standard with the FotoScan 3D foot scanner. This powerful application allows you to directly measure a full colour digital cast using a range of measurement types, including:

- 2D – such as stick length, ball width, etc
- 3D – ball girth, instep, short heel, etc
- 3D line – allowing a combined measure of length and depth

These measures are consistent, repeatable and accurate to within 0.5 mm. This makes FotoScan 3D a perfect tool for obtaining reliable measures for stock or modular footwear.

## Accurate and detailed wound measurement...

A key feature of FotoScan is the detailed full colour 3D data it produces. Combined with the FotoScan 3D Measure program, this means that you can accurately measure and record wounds and any other serious skin conditions.

The scanner will capture both the area and depth of the wound. The 3D line measures allow you to record depth and size of wounds from a range of angles, accurate to within 0.5 mm. The measures taken can then be saved with the scan, and compared against previous scans and measures. This capability makes FotoScan 3D a uniquely valuable method of monitoring wound treatment over time.

## Digital casts for custom footwear and orthotics...

FotoScan 3D captures the complete foot in 3D, including the plantar surface. It can also scan foam boxes and plaster socks. As a result its 3D digital casts can be directly used in the manufacture of both footwear and custom insoles.

Digital data also means easy access to the worldwide market of footwear and orthotics. Digital casts can be emailed to labs and manufacturers anywhere in the world, allowing the clinician to take advantage of the most attractive technologies, products and prices in a global marketplace.

## Technical Specification

### Camera/Projection

Firewire high resolution digital cameras  
50 watt texture projectors  
35 watt render projectors  
Parallel port interface  
Firewire port interface

### Dimensions

Width 100 cm  
Length 100 cm  
Platform height 25 cm  
Corner height 50 cm  
Weight 35 Kg (assembled)  
Max load 200 Kg

### Electrical

110 or 240 volt  
12 volt internal

### Scan Volume

Length 35 cm, Width 17 cm, Height 17 cm

### Software

Automatic projector/camera control  
Multiple settings for skin/sock colour  
Single button foot scan  
Automatic 3D model building  
Two build modes  
Integrated 3D viewer  
View wireframe, slice or full colour  
Export to VRML, DXF, STL and RAW formats  
Keyboard/mouse interface  
Touch screen interface  
Fully configurable camera and 3D build settings  
FotoScan 3D Measure program

### System Requirements

Microsoft Windows 2000/XP/Vista/W7  
1.8 GHz  
512 MB RAM

### Warranty

12 months parts and labour

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