

The Whole Body Color 3D Scanner (Model WBX) delivers Cyberware's proven 3D whole body scanning technology at half the price. Optimized for heavy use applications the Whole Body Color 3D Scanner (Model WBX) is fast, accurate, fully enclosed and very easy to use.

Applications requiring a low cost whole body scanner that is fast, accurate and very easy to use will be well served by the Whole Body Color 3D Scanner (Model WBX).

Using patented Cyberware technology the Whole Body Color 3D Scanner takes hundreds of thousands of measurements of the human body in just 17 seconds. Four scanheads collect high-speed 3D measurements every 2 mm from head to toe to create an accurate 3D data set.

The scanning process captures an array of digitized points, with each point represented by X, Y, and Z coordinates for shape and 24-bit RGB values for color. Color sampling pitch is user selectable at either one or four texels per vertex. The system transfers this data via a USB interface to your computer for immediate viewing.

The WBX motion system is designed for heavy use applications and can reliably scan at rates up to one subject every 30 seconds day in and day out. System calibration is set at the factory and requires no operator adjustment or alignment.

As with Cyberware's other 3D scanners, the Whole Body Color 3D Scanner is controlled via Cyberware software running on a PC. This software has been designed to make capturing the shape of the subject quick and easy. 3D rendering tools allow the operator to view the 3D scan data immediately following completion of the scan. Software options available with the WBX serve a wide variety of applications in the fields of anthropometry, fashion, fitness, games, graphics, medicine and research.

Sample data sets acquired with the Head & Face Color 3D Scanner are available on our web site. Download the sample files and test them in your application.

<http://www.cyberware.com/products/scanners/wbxSamples.html>



The Cyberware Whole Body Color 3D Scanner (Model WBX).

Note: Panels have been removed from the enclosure to show interior.

### Application Areas

- Movies, Games, Special Effects
- Custom Clothing & Safety Device Design
- Anthropology and Human Factors

### The WHOLE BODY 3D COLOR SCANNER BUNDLE (Model WBX) includes:

Complete Whole Body X motion system, four WBX optical heads with luminance map and RGB capability, Windows XP-based workstation, scanner enclosure, power supply, and cabling. Also includes DigiSize Pro scanning software, PlyEdit polygonal editing software, on-site installation and training, one-year return-to-factory warranty, as well as technical support and software updates.



# Whole Body Color 3D Scanner (Model WBX) Specifications

## Range and Color Scanning Benefits

- Four scanheads at optimum angles capture complex contours
- Improved coverage greatly reduces post production editing
- Merging tasks are fully automated

## Scan Heads

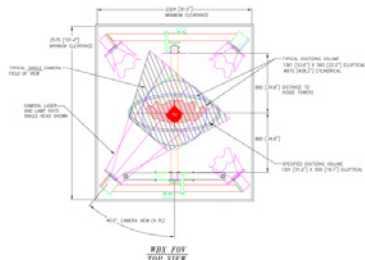
### Field of View (Elliptical)

Depth ..... 130cm (51")

Height ..... 200cm (79")

Width ..... 50cm (20")

FOV Illustration.....



## Sampling Pitch

Horizontal (X)..... 1.2mm (0.047")

Vertical (Y) ..... Depends upon motion platform speed; 30 samples per second in Y; typically 2mm (0.080")

Depth (Z)..... 0.5mm (0.019")

## Sampling Speed

60,000 points per second, digitized to XYZ and RGB components.

## General

Light Plane ..... Horizontal

Environment ..... Subject illumination must be a minimum of 200lx for RGB data collection. Room illumination to 2klx for better quality.

Light Environment .. Cyberware scanners are designed to operate in a typical office environment; 20°C (68°F) to 28°C (82°F), non-condensing. The min and max temperature ranges are 15.5°C (60°F) to 32°C (90°F), non-condensing. There is a possibility of data degradation at the limits of temperature tolerance.

## Motion System Benefits

- Scan subject enclosed to reduce ambient light effects
- Less than 20-second scan time
- Product design life cycle is over 1,000,000 scans

## Motion System

### Motion Range

Travel in linear modes:

Y ..... 0-200cm (0-79") Servo-driven

### Power Requirements

Input Voltage ..... Auto-selecting 90-135VAC / 175-264VAC, 47-63Hz. International voltages and frequencies supported.

Maximum Power ..... 1500W

### Size

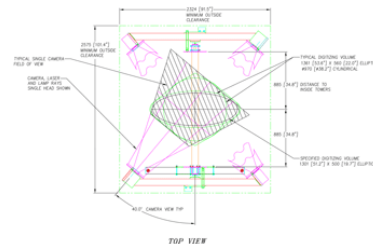
Width ..... 261cm (103")

Height ..... 290cm (114")

Depth ..... 235cm (93")

Weight ..... 300Kg (661 lbs)

WBX Size Illustration



## Weigh Scale

Optional integrated scale for subject weight measurement

## Enclosure

Motion system and scanheads fully enclosed

The Cyberware data format is in the public domain, so it is easy to create your own special-purpose translation routines. Additional file format support is available. Contact Cyberware with your specific requirements.