Product Specifications

Dimension	s: length2260mm,width707mm,height75
Weight:	185Kg
Display;	2setsof47inchsplicingscreenswith3.5mmsplicings
Resolution Ratio	o: 3480*1080
Brightness:	500cd/m?
Contrast Rat	io: 1100:1
Visual Elevation:	175°

Digihuman Virtual Anatomy Table System



System overview

Digital human is the serial section data of human body,base on picture segmentation reconstructing the 3D structure, with the male section data 2,110 layers, and accuracy 0.1mm-1mm and the female 3,640 layers,accuracy 0.1mm-0.5mm;at last to reconstruct over 5.0003D anatomic structures.it is the result which medical science combine with computer technology. According to content ofteaching program, the operation and use are very easy. Up now, Echung Digital human is the only product of 3D reconstruction by sectional data .it pass the identification of Chinese Society for

Anatomical Sciences

2018, Shandong Digihuman Technology Co., Inc., Shandong University, Army Military Medical University, and Chinese Anatomical Society jointly published the "Digital Anatomy Teaching System Creation and Promotion"and won the second prize of national teaching achievement in 2018.

The digihuman anatomy teaching system has the characteristics of originality, standardization, advancement and autonomy. It has been applied to anatomy teaching by more than 220 medical universities in China, which has improved the quality of teaching and led the reform of human anatomy teaching and even the direction of the medicine teaching.













clear the anatomical structure except the selected one, convenient for user to check the structure.

dlekthealthite button to empy the entire secreen.

Hide the selected structure.

cick the undo burton with the left mouse button on the right side to get backto the previous operation.

Ater dlieking the Drag button on the right side, the 3D structurein the scene is separable. You can drag the structure by holding the left mouse button.

Click the Explosion button to separate all structures in the scenefrom the center point.

Transparent
After selecting an anatomical structure, the structure is highlighted.

Cliek thetransparent button on theright to make the structure tansperent Transparengy ean beadjusted by dress'ngthesliter.

Ouickly switch all 3D structures in the scene to the front,back,side,top,bottom and other perspectives. :All models in the 3D cene can be rotated in any direction.

::Selectany3Dstructure,andthe3Dstructurewill automatically move to the middle of the screen at an appropriate size for easy observation.

Table of Contents, The general outine and ndex of the entire digihuman anatomy system. Users can browse through all the structures in the directory structure or precisely select certain organizational structures

Turn on the pronunciation button in non transparent mode, click on any 3D structure, the Englsh pronunciation of the structure will be automatically played.

g :draw and edit the screenshot of the structure in the current scene, and the edited image can be saved.

Find: In English mode, you can search for related models by entering the full name of the English name.

pic display: The left and right perspectives show the 3D model of the human body. Adapt to stereo teaching. (requires hardware support)

Human body section: The section partisto autthehuman body from three directions of transverse, sagittal and crown to fomaunform and contihuous section display.

Note: Open the comment function in non transparent mode and click on any 3D structure to automatically display the relevant comment content of the structure.

Video editing annotation edting, tle edting, background switching, etc.

1 The digital human anatomy system based on the 3D reconstruction of continuous real sectional images.

The system is developed with continuous real sectional images of human specimen and more than 50003D reconstructed anatomical structures

2 Full-featured digital anatomy teaching system. The system can display all the human organs and tissues in completely realistic 3D model. Each structure is set with English names and English pronunciation, and all the key structures are marked with detailed annotation and corresponding textual interpretation. The anatomy structures can be rotated and viewed at any angle, The system setting functions including background switching, labeling, separation, transparency, dyeing, stripping, searching, pronunciation, freehand drawing and stereotaxic display etc.it can strengthen the vitality, interest and intuition of anatomy teaching.

3 Student autonomous learning system.

The system covers anatomy teaching contents. Corresponding CT and magnetic resonance images are arranged on the basis of the image of the section specimen. Also provide teaching

micro-course video and a large number of digital exercises.

4 Simple and quickfull touch operating system. The system uses full touch operation interface with a 86/55-inch multi-touch system embedded, which has simple structure and beautiful appearance. It can power up to work without any software installation and debugging procedures.





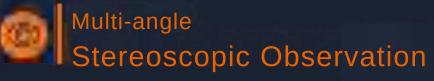
Section Precision

0.1-1 mm

The system is developed using continuous transverse sectional images of human specimens. The section precision for men and women was 0.1-1mm and 0.1-0.5mm, respectively, and the thickness is unequal. In the parts of head and chest, the layer spacing is up to 0.1mm because they need to be displayed finely.



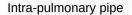




The digital human can be rotated at any angle and arbtrarily zoom n and out. It can be observed in all directions from the perspective of looking up and looking down. The structures will be more visual and intuitive contrast with the models and specimens.





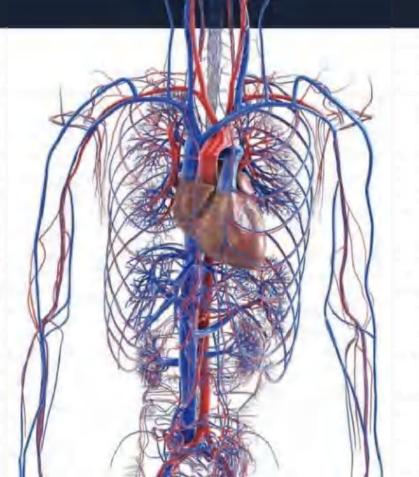




Fiber Bundles in the brainstem



Lateral view of the skull





Arbitrary angle rotation

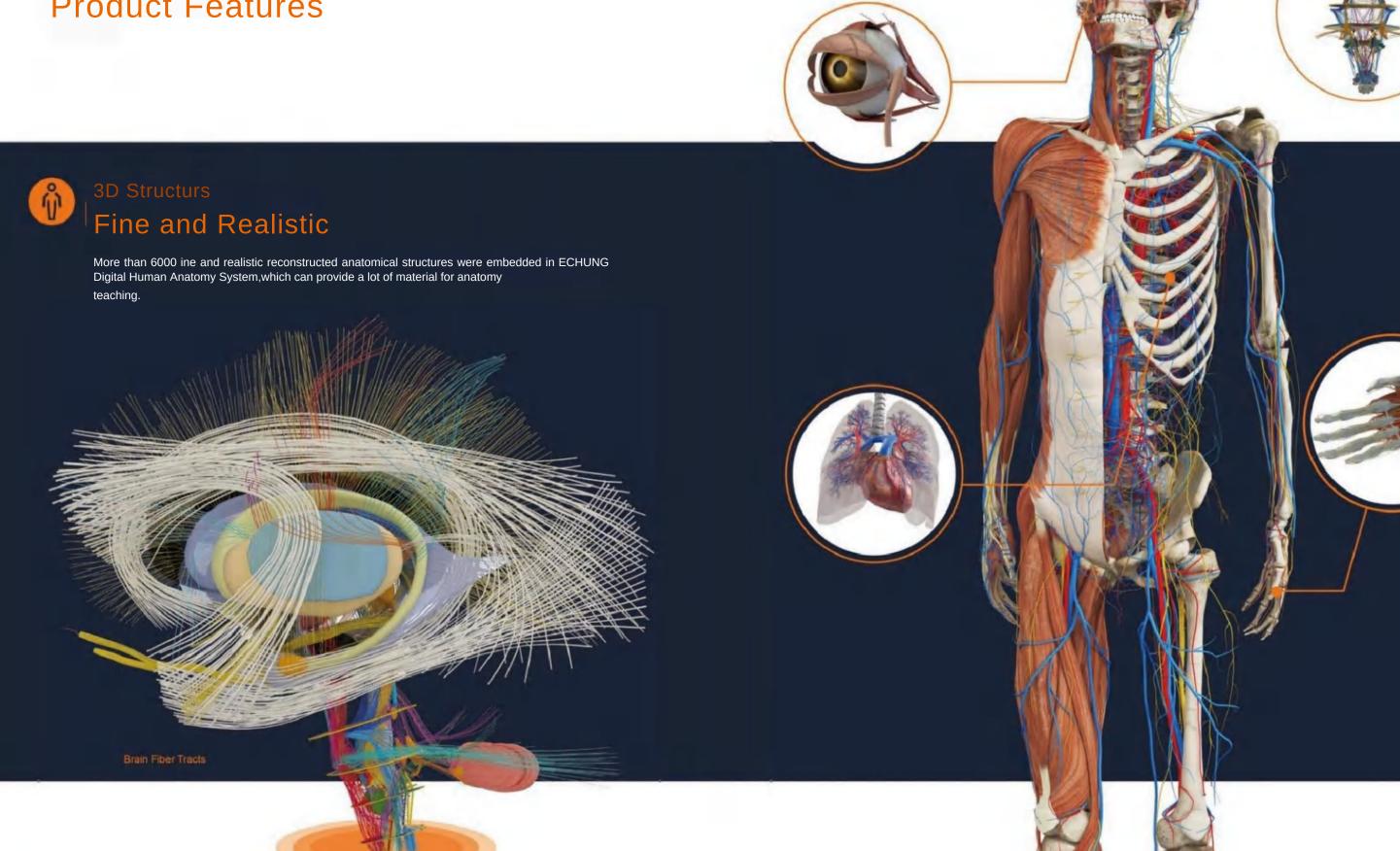


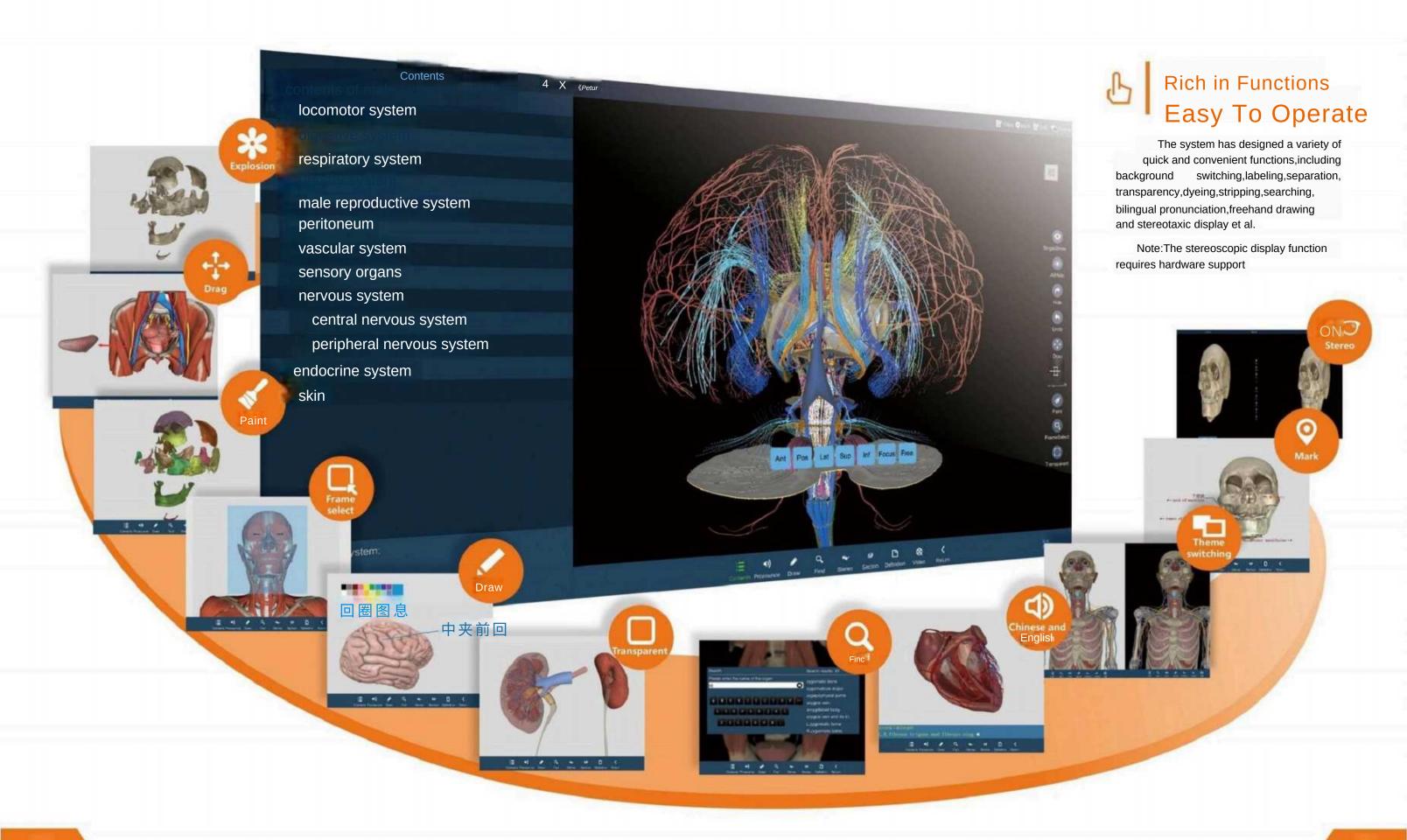
Arbitrary zoom in and out



3D stereoscopic observation

Product Features





Teaching Application



Systematic Anatomy

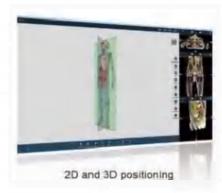
The three-dimensional structures are obtained by 3D reconstruction of real human cross-sectional data. Their position and shape are consistent with the original data. The structures are divided into nine systems. And the three-dimensional morphology of more than 6000 anatomical structures can be displayed.

Nine Systems

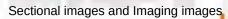
Locomotor System-Angiology System
 Alimentary System Sensory System
 Espiratory System System
 Urinary System Endocrine System
 Reproductive System

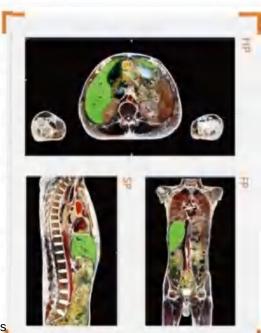
Sectional Anatomy

It's easy to obtain sectional images of any section. Using the highlighting function, the sectional structures can be identified, their Chinese and English names can be obtained quickly, and their positions and shapes can be showed in the three-dimensional human body. Which can provide real specimens and imaging images for students' learning sectional anatomy.









Regional Anatomy

For the teaching of Regional Anatomy, teachers can display the structures from superficial layer to deep layer using the digital human body with stripping and perspective functions. The students are able to build local hierarchical concepts and know the adjacent relationships of the structures even in the classroom. The Digital Human Anatomy System includles a large number of regional anatomy teaching vidleos to facilitate teaching and students'self-study







Surface Anatomy

The surface projection of nerves, blood vessels and other structures can be realized with the transparent function of the digital human.



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