

Digihuman Virtual Anatomy Table System

Product Specifications

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



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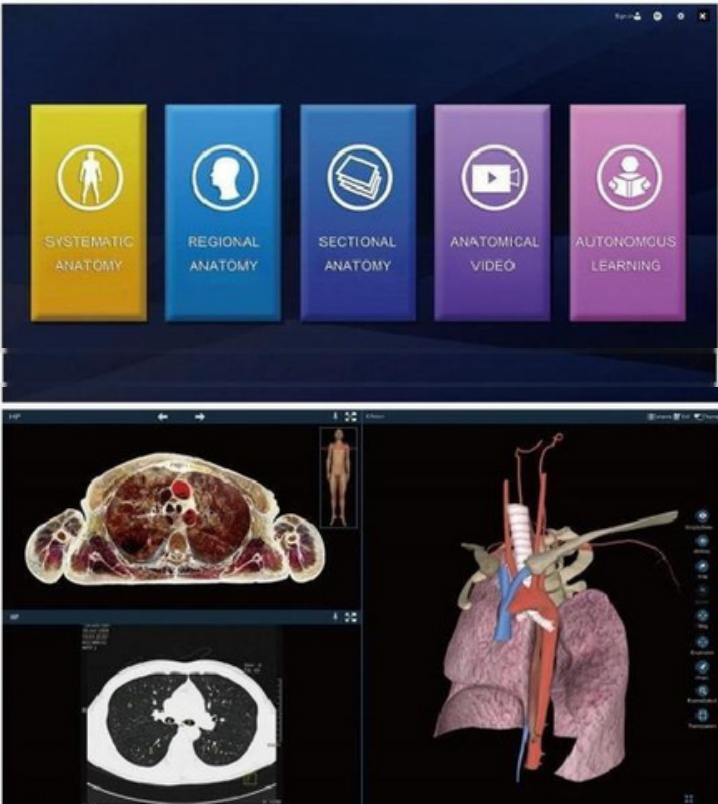
System overview

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

In 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.



Single show
clear the anatomical structure except the selected one, convenient for user to check the structure.
All hide
dlekthealthite button to empy the entire secreen.

Hide
Hide the selected structure.

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

is **Drag**
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.

4. Explosion
Click the Explosion button to separate all structures in the scene from the center point.

Transparent
After selecting an anatomical structure, the structure is highlighted.
Cliket thetransparent button on theright to make the structure tansperent Transparengy ean beadjusted by dress'ngthesliter.

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

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

Table of ContentsThe general outline and ndex ofthe entire digihuman anatomy system.Users can browse through all the structures in the directory structure or precisely select certain organizational structures

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

Painting :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.

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

Human body section:Thesectionpartistoautthehuman body from three directions of transverse,sagittal and crown to fomaunform and contiuhuous 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.

Other: 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.



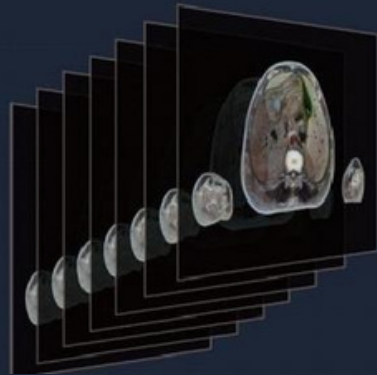


Accurate Data Clear Image

Section Precision

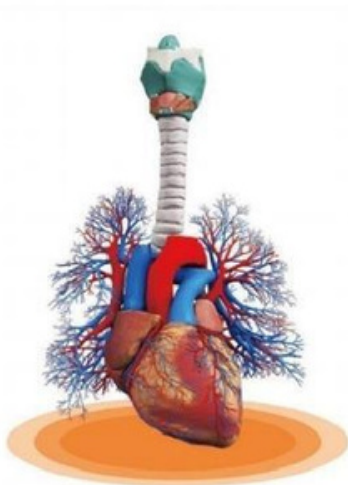
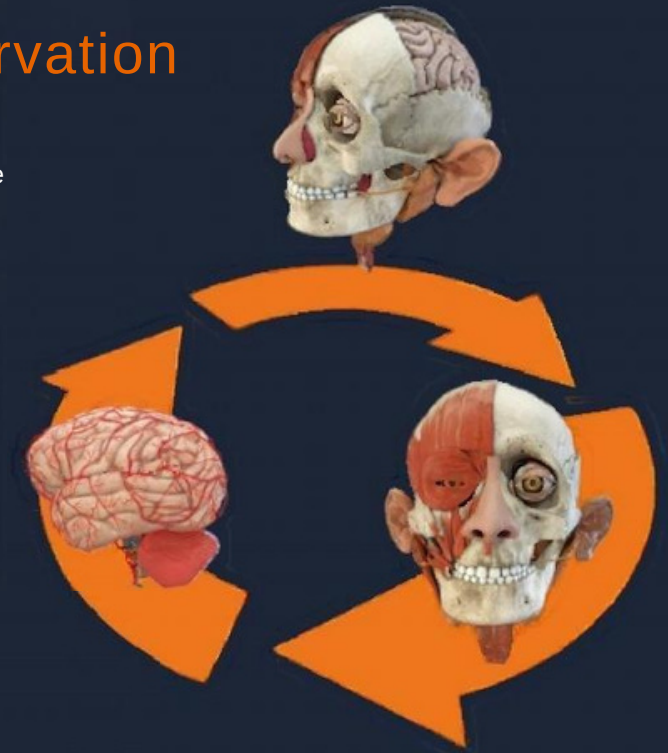
0.1-1 mm

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.



Multi-angle Stereoscopic Observation

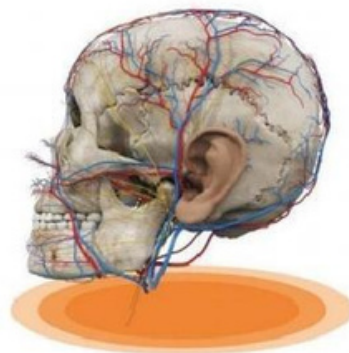
The digital human can be rotated at any angle and arbitrarily zoom in and out. It can be observed in all directions from the perspective of looking up and looking down. The structures will be more visual and intuitive contrast with the models and specimens.



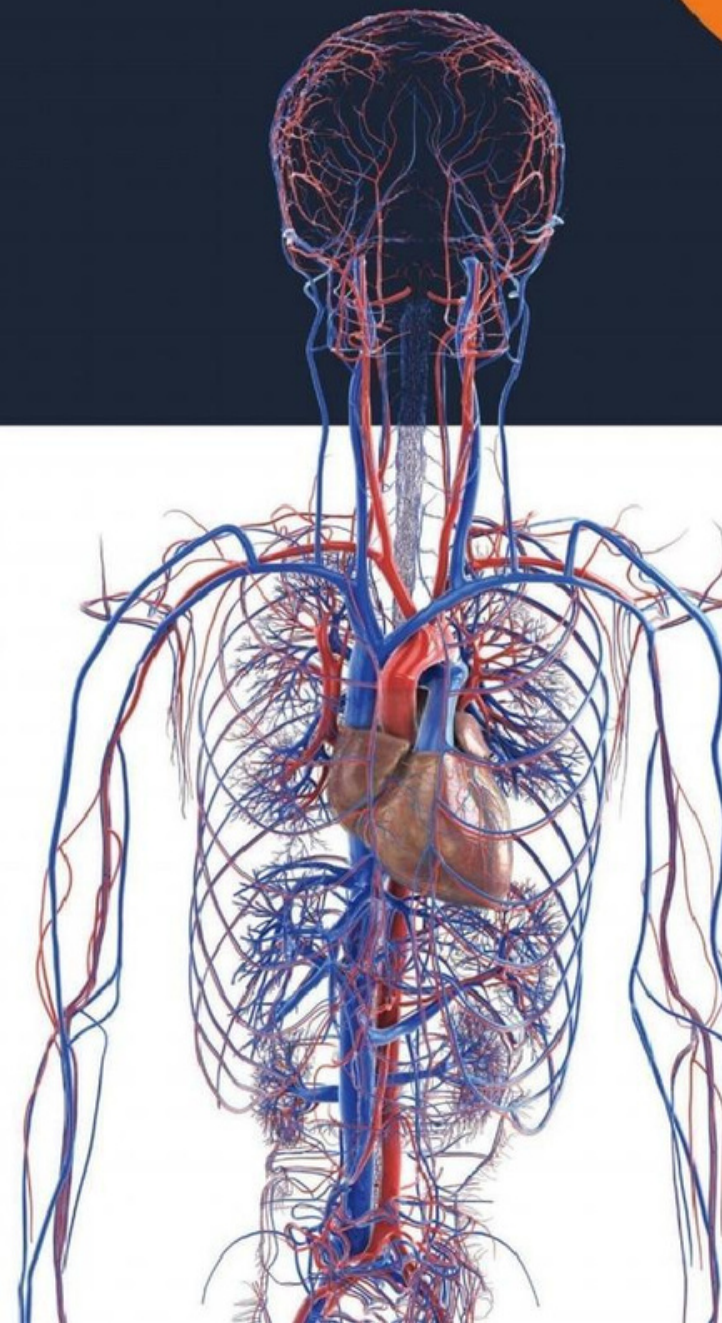
Intra-pulmonary pipe



Fiber Bundles in the brainstem



Lateral view of the skull



Arbitrary angle rotation



Arbitrary zoom in and out



3D stereoscopic observation

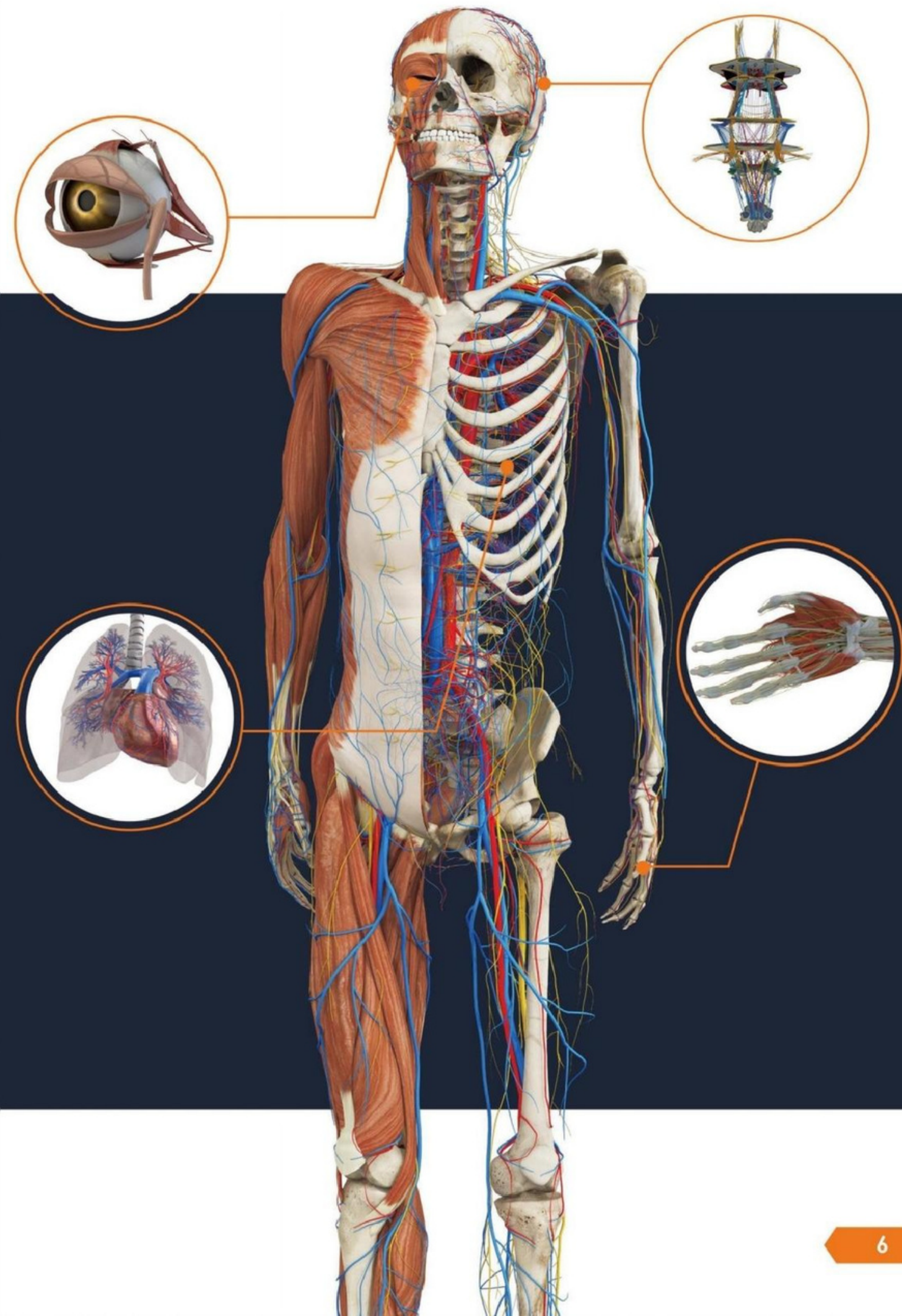
Product Features



3D Structures

Fine and Realistic

More than 6000 fine and realistic reconstructed anatomical structures were embedded in ECHUNG Digital Human Anatomy System, which can provide a lot of material for anatomy teaching.





Explosion

Drag

Paint

Frame select

Draw

Transparent

Find

Chinese and English

Mark

Theme switching

ON Stereo

Contents

contents of male systemic anatomy

locomotor system

digestive system

respiratory system

urinary system

male reproductive system

peritoneum

vascular system

sensory organs

nervous system

central nervous system

peripheral nervous system

endocrine system

skin

4 X Petur

Ant

Pos

Lat

Sup

Inf

Focus

Free

Contents Pronounce Draw Find Stereo Section Definition Video Return

回圈图息

中夹前回

Search

Please enter the name of the organ

zygomatic bone

zygomaticus major

zygomaticus minor

zygomatic vein

zygomatic body

zygomatic vein and its br.

L zygomatic bone

R zygomatic bone

zygomatic bone

zygomaticus major

zygomaticus minor

zygomatic vein

zygomatic body

zygomatic vein and its br.

L zygomatic bone

R zygomatic bone

Rich in Functions

Easy To Operate

The system has designed a variety of quick and convenient functions,including background switching,labeling,separation,transparency,dyeing,stripping,searching,bilingual pronunciation,freehand drawing and stereotaxic display et al.

Note:The stereoscopic display function requires hardware support

Teaching Application



Systematic Anatomy

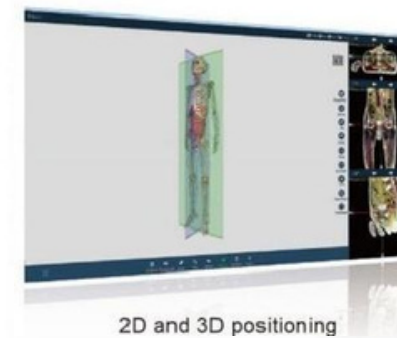
The three-dimensional structures are obtained by 3D reconstruction of real human cross-sectional data. Their position and shape are consistent with the original data. The structures are divided into nine systems. And the three-dimensional morphology of more than 6000 anatomical structures can be displayed.

Nine Systems

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

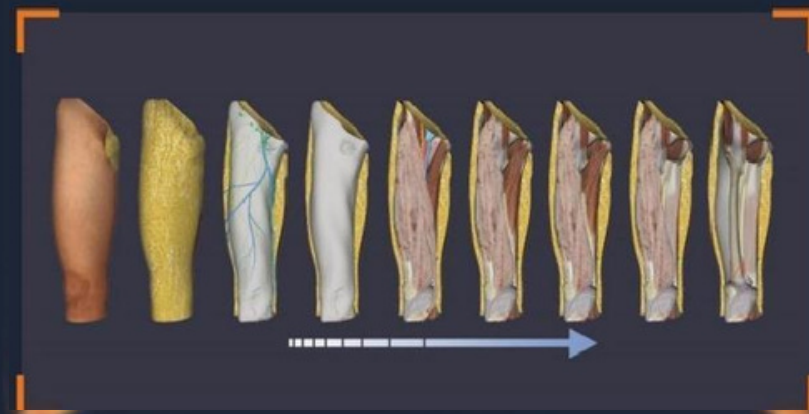
Sectional Anatomy

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 includes a large number of regional anatomy teaching videos to facilitate teaching and students' self-study.



LayerHide



Surface Anatomy

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

