Short name of securities: Digihuman

Code of securities: 835670

WeChat Official Account

数字人科技
DIGIHUMAN

Let Digihuman serve to the precision medicine and benefit human health

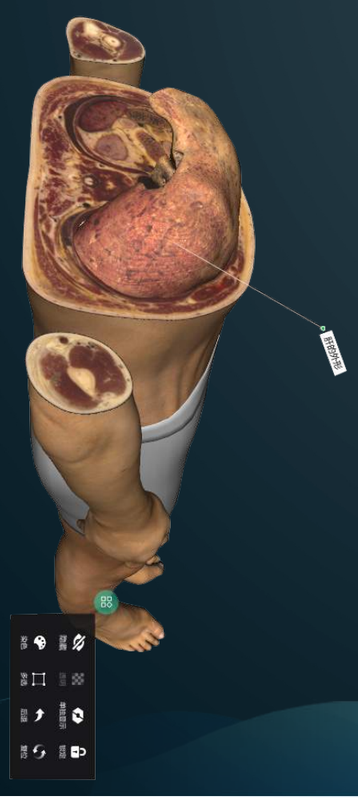
Digihuman Virtual Anatomy Table

Address: No. 1188, Tianchen Road, High-tech Zone, Jinan, Shandong Province, China
TEL: 0086-531-62327782 URL: www.digihuman.net

SHANDONG DIGIHUMAN TECHNOLOGY CO.,INC

Orthogonal cutting

Locking of the structure



Any section

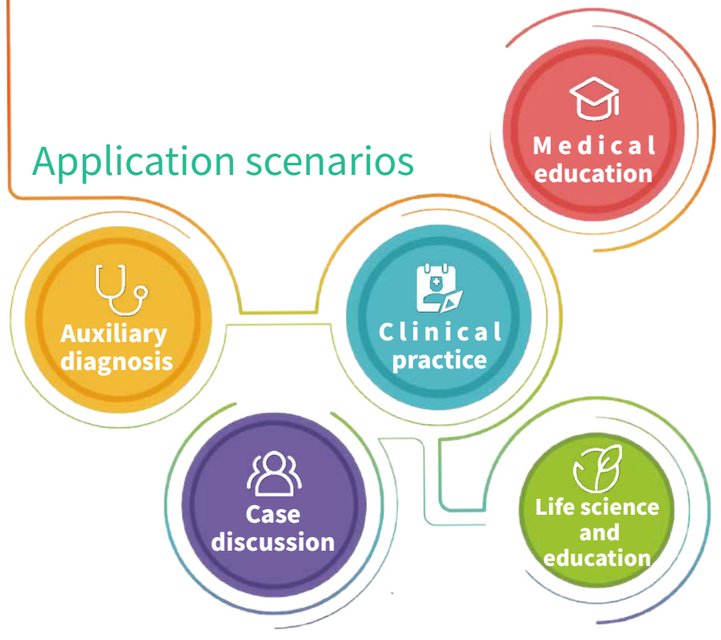
- Based on the realistic data of continuous sections of the human body
- Construction precision of 0.1mm
- Drawing of the human body and real-time rendering
- Sectioning and observation in any angle
- Many functions are simple and easy to use
- Switch between Chinese and English

1 Introduction to the product

“Digihuman Virtual Anatomage Table” is a set of anatomy equipment creating the virtual structure of the human body with the digital 3D reconstruction technology. The anatomy contents are displayed with a real structure, the scale of a real person, touch screen interaction, the angle of view in the supine position, the conversion of horizontal and vertical screens, and both Chinese and English. Through the technical processing of sequence images of sections of the human body with ultra-high precision, the structure of the human body can be drawn in real-time with ultra-high precision and a lot of data. The touch control operation of the Anatomage Table can realize the cutting and observation of the structure of the human body in different directions and angles at different layers. The knowledge of human anatomy, local anatomy, and sectional anatomy is integrated. With the classical section as the axis, the virtual cutter is used for the continuous display. By constructing the virtual anatomy combination model, it helps the observer to develop the concept of the 3D space structure.

The system integrates many kinds of medical visualization resources and human-computer interaction techniques. The UHD realistic anatomy system of the human body, the Digihuman Anatomy System, the user interaction management system, and other systems are integrated to construct the virtual training platform. With features such as high-precision realistic anatomical structure, the high-performance anatomy teaching tool, and the interactive touch control operation, it can help users to learn about the macroscopic, microscopic, normal, and sick 3D structure.

Application scenarios



2 Product Features

17000layers

Realistic continuous sections of men/women

2 sets of data

2 sets of HD data for men/women

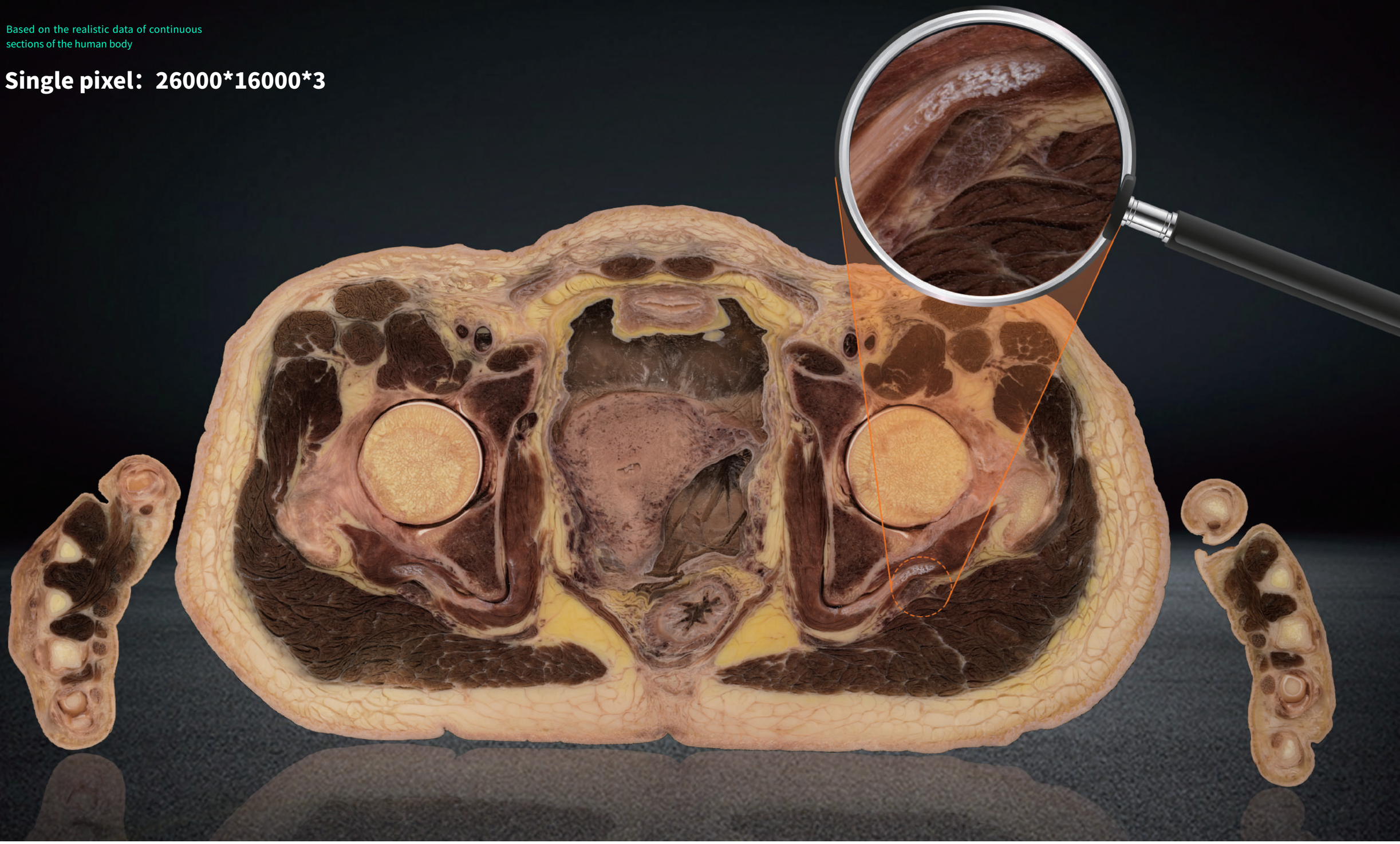
0.1mm

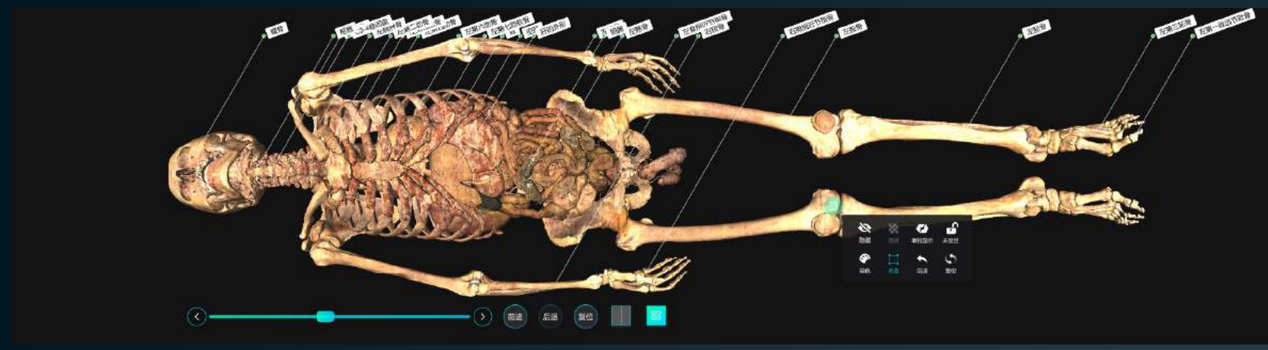
Reconstruction precision of 0.1mm

Cross-sectional images of the human body are the foundation of 3D reconstruction of the human body. The amount of information in cross-sectional images directly affects the precision of 3D reconstruction.

Based on the realistic data of continuous sections of the human body

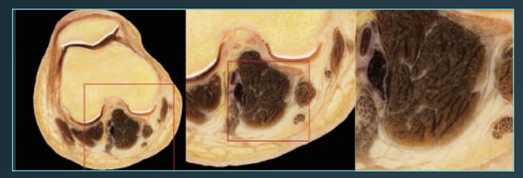
Single pixel：26000*16000*3

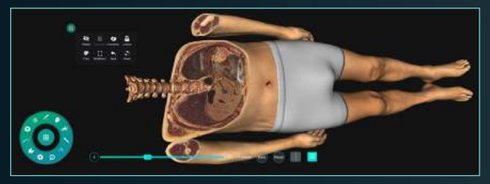




1 SD data and careful display

The UHD data leading in the world is used. The fine structure that cannot be observed in the traditional anatomy can be displayed clearly.



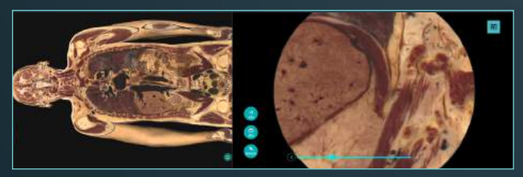


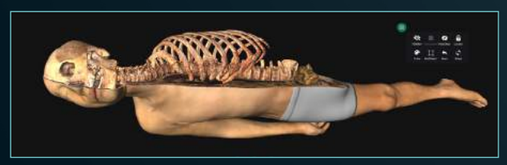
2 Touch control operation and virtual simulation

Through the sensitive touch control mode and function buttons, the virtual anatomy operation is made on the digital human body, which meets the display and training requirements of virtual simulation.

3 Help with clinical application and provide a reference for study

The contents cover the requirement of training and study of clinical anatomy. Doctors and students can obtain professional knowledge and information on human anatomy. Meanwhile, due to the unique novelty and entertaining of the product, students can study more actively.



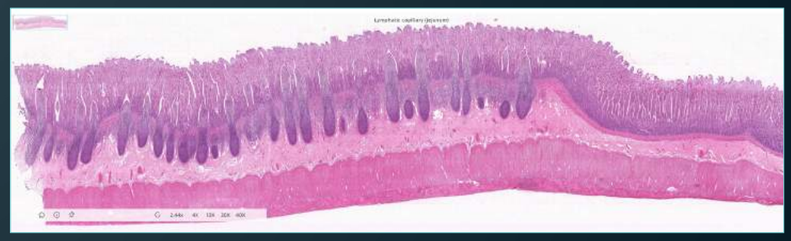


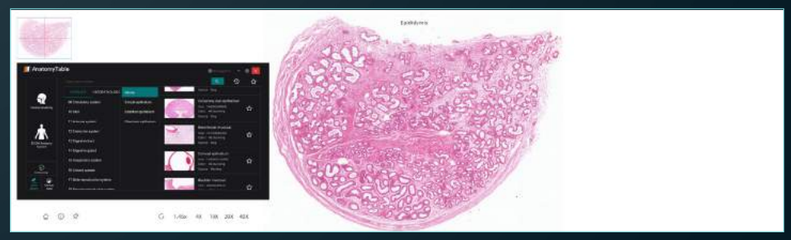
4 CN-EN bilingual and wide application

The Chinese-English bilingual display can meet the requirements for bilingual learning and international exchange.

5 Digital microscopic structure

With the mainline of the structure of organs, the relevant digital microscopic structures of the current structure are correlated. When observing the anatomical structure, students can grasp the relevant content of histology, which can help to improve the knowledge structure.





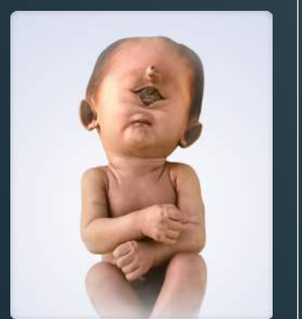
6 Virtual simulation teaching system for Human Embryology

The system is based on the teaching knowledge of human embryology, using multimedia animation video technology to reproduce the whole process of human embryo development at all stages, turning the abstract process of embryogenesis into a vivid dynamic courseware library, making the teaching and learning of "human embryology" more intuitive and vivid.

① Early Development of Human Embryo

② Development of Organs and Systems in Human Embryo

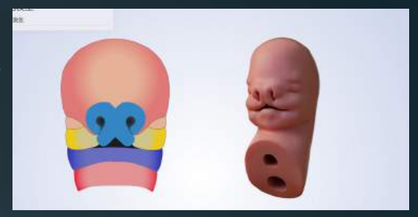
③ Congenital Malformation



Three-dimensional Structure

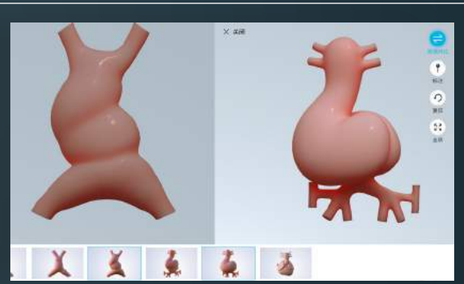
The development of the human embryo is visually restored, and the model can be rotated for observation from any angle.

Explanatory Videos



Each chapter has video micro-lessons on the key knowledge of the chapter, systematically explaining the content to be learned in the chapter.

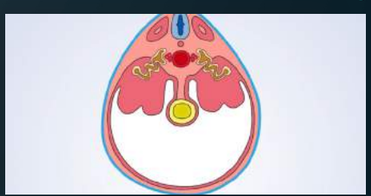
Dynamic Structure



A unique time-series model is used to observe the process of change at different time points of embryonic development.

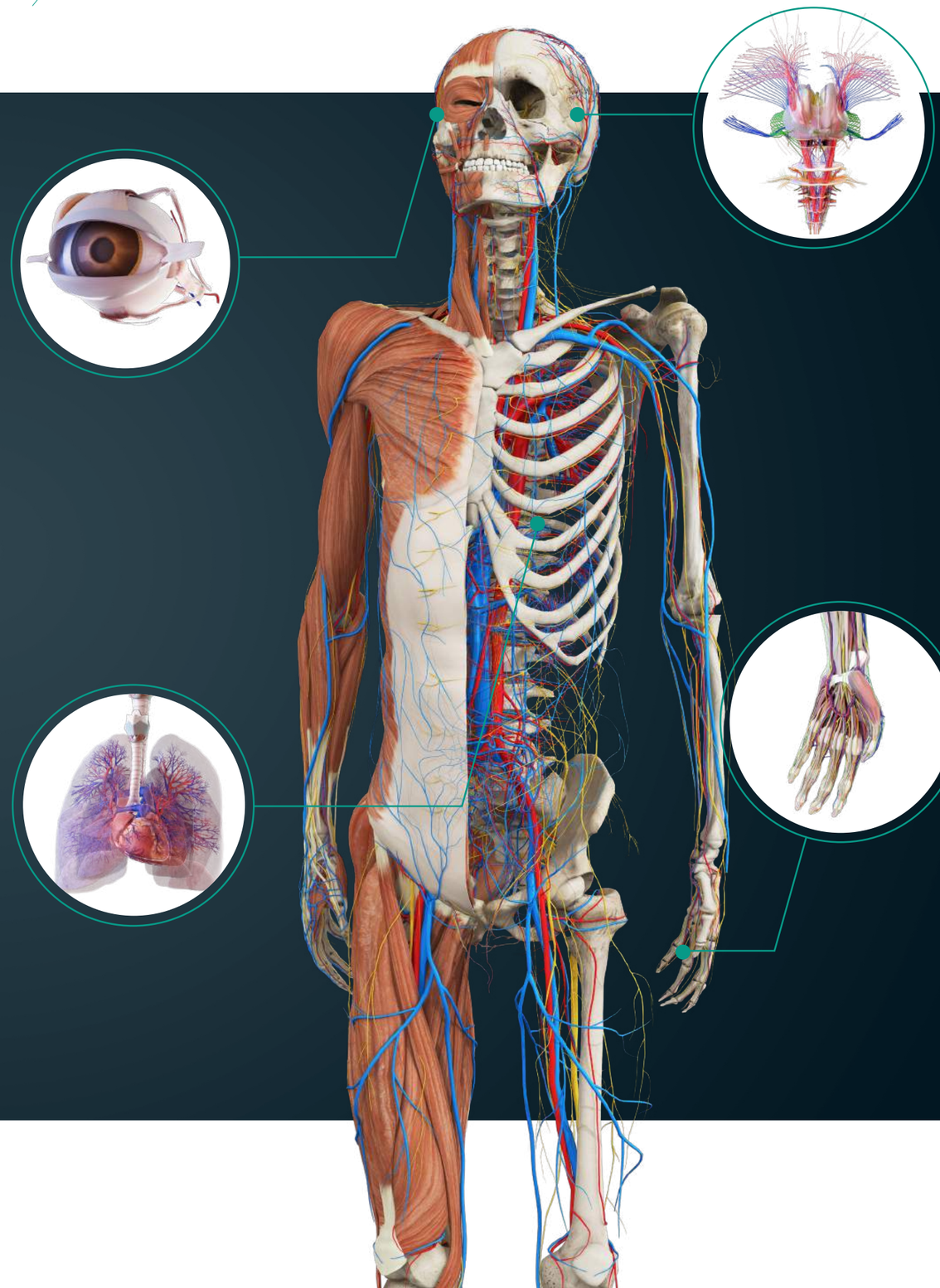
Dynamic Videos

The system provides an in-depth demonstration of relevant and important knowledge points through specially designed dynamic demonstration videos to deepen understanding.



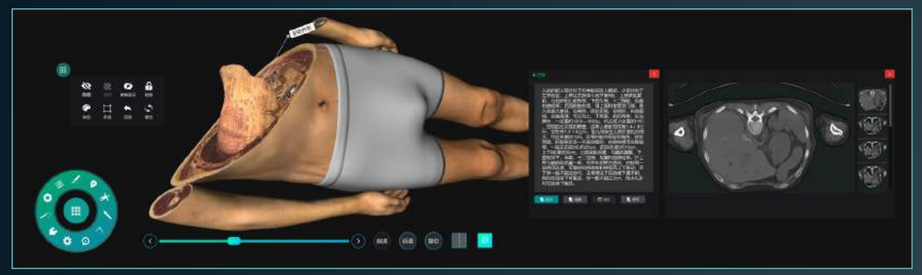
3 Digihuman Anatomy System

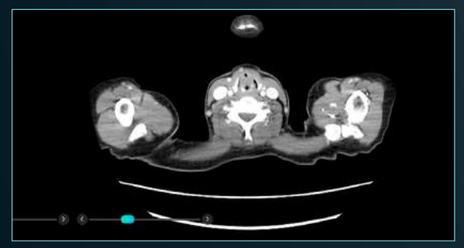
The system is equipped with the Digihuman Anatomy System, which can help with the clinical training and teaching.



7 Digital medical images

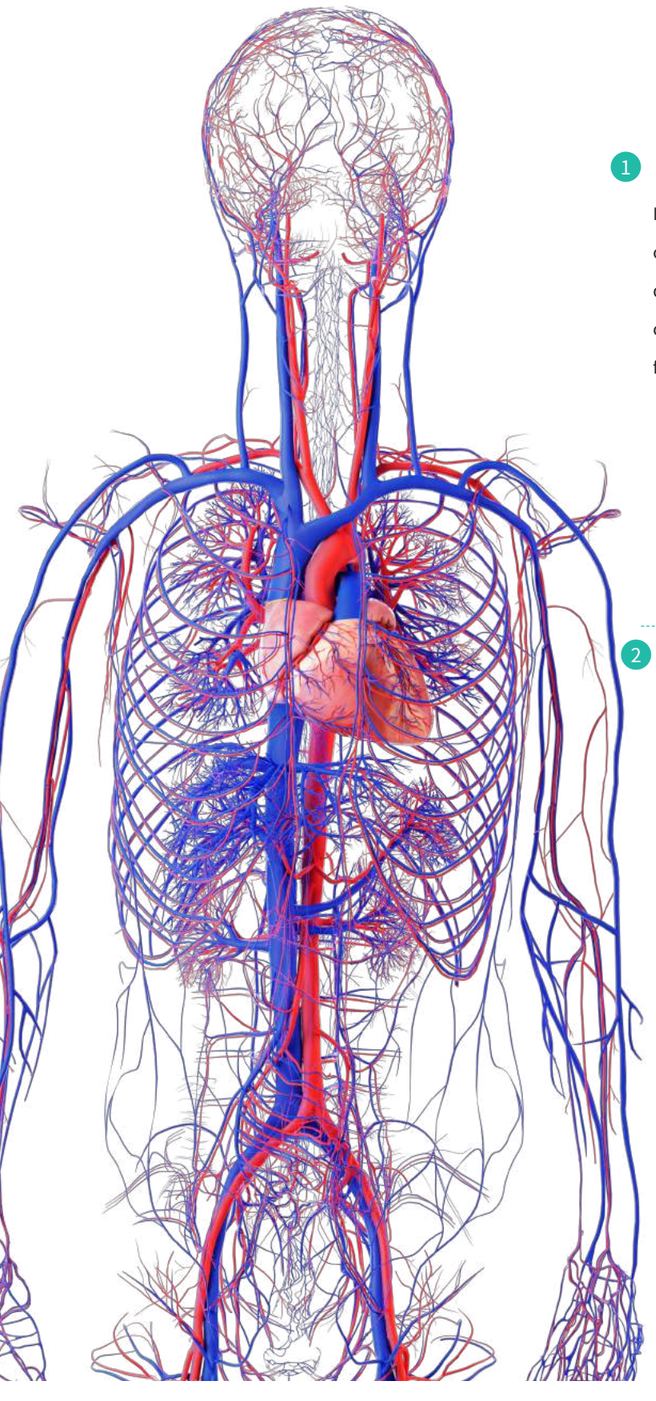
With the mainline of the structure of organs, the medical images of the current structure are correlated to construct the knowledge frame deeply.





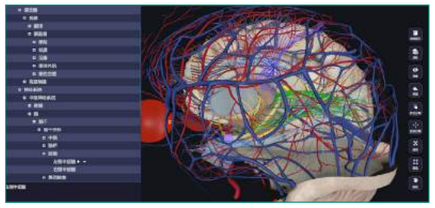
Digihuman Anatomy System

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.



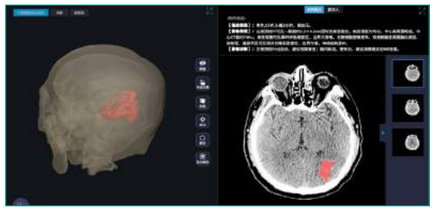
1 Human anatomy module

It includes system anatomy, local anatomy, sectional anatomy, and other modules. The 3D structure is reconstructed with the realistic data of cross-sections of the human body. The position and form are consistent with the original data. There are a total of 9 systems. The 3D form of more than 6,000 anatomical structures can be displayed.



2 Clinical case module

It has a lot of classical clinical cases. Each case contains several realistic CT or MRI images, a description of the case, 3D data reconstructed based on the clinical case images, and 3D data of the corresponding structure of the normal human body.



4 Product Specifications

Configuration of the host	i7 /64G DDR4 3200 /2T NVME SSD /RTX3080 /win10
Screen display size	87.8 inches
Resolution	3840×1080
Brightness	700 cd/ ㎡
Contrast	1100：1
Angle of view	89/89/89/89 (Min.)(CR ⩾ 10)
Power requirement	220V 800W
Net weight	340kg
Product size	2290*770*889mm

Configuration of the host	i7 /64G DDR4 3200 /2T NVME SSD /RTX3080 /win10
Screen display size	54.6 inches
Resolution	3840×2160
Brightness	700 cd/ ㎡
Contrast	1100：1
Angle of view	89/89/89/89 (Min.)(CR ⩾ 10)
Power requirement	220V 750W
Net weight	123kg
Product size	1668.3*809.5*860mm

*The hardware configuration will be adjusted accordingly with the product upgrade