数字人科技
DIGIHUMAN

DIGIHUMAN PRODUCTS CATALOG

Let Digihuman serve to the precision medicine and benefit human health

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SHANDONG DIGIHUMAN TECHNOLOGY CO.,INC

Digihuman Products Catalog

01 HD Digihuman Virtual Dissection Table

02 Digihuman Anatomy Platform

03 Digihuman 3D Anatomy Teaching System

04 Digihuman VR Anatomy System

05 Digihuman Naked-Eye 3D Anatomy System

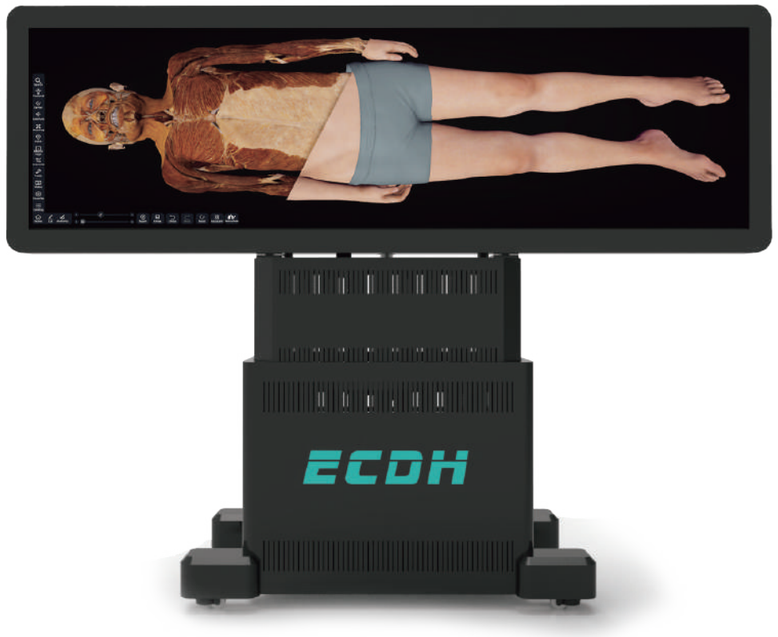
06 HD Tomographic 3D Specimen

07 3D Printing Model Series

01 HD Digihuman Virtual Dissection Table

HD Digihuman Virtual Dissection Table (ECDH-INT II 88)

“HD Digihuman Virtual Dissection Table” is a multidisciplinary teaching platform, in which the gross anatomy module is processed by ultra-high-precision human tomography sequence image technology. The main features of the product include high-resolution virtual body, touch screen interactive operation, prone perspective observation, etc.



Configuration of the host	i7 /64G DDR4 3200 /4T NVME SSD /RTX4080 /win10
Resolution	3840×1220
Brightness	700 cd/ ㎡
Contrast	1300：1
Visual angle	89/89/89/89 (Min.)(CR ⩾ 10)
Power requirement	220V 800W
Net weight	243kg
Product size	2165*880*1100mm

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

HD Digihuman Mini Dissection Table (ECDH-INT II 55)

"HD Digihuman Mini Dissection Table” in the Pro version of the basis of a smaller size screen to meet the human anatomy based on the basic disciplines of organ structure of multi-disciplinary integration of teaching mode. Through virtual cutting to realize different directions and levels of human body structure any angle of anatomy, observation.

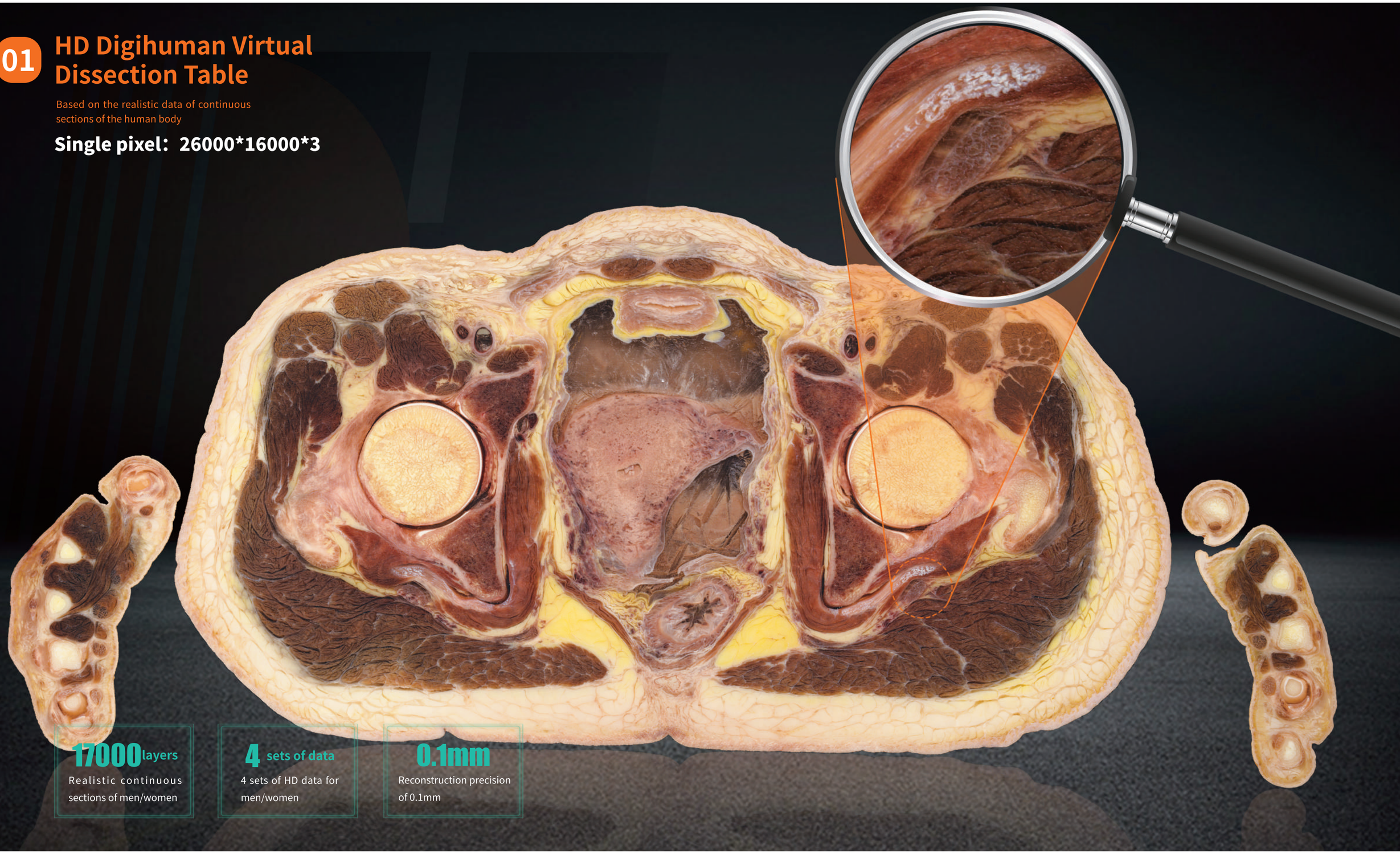
Configuration of the host	i7 /64G DDR4 3200 /4T NVME SSD /RTX4080 /win10
Resolution	3840×2160
Brightness	700 cd/ ㎡
Contrast	1300：1
Visual angle	89/89/89/89 (Min.)(CR ⩾ 10)
Power requirement	220V 750W
Net weight	170kg
Product size	1465*950*1055mm

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

01 HD Digihuman Virtual Dissection Table

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

Single pixel：26000*16000*3

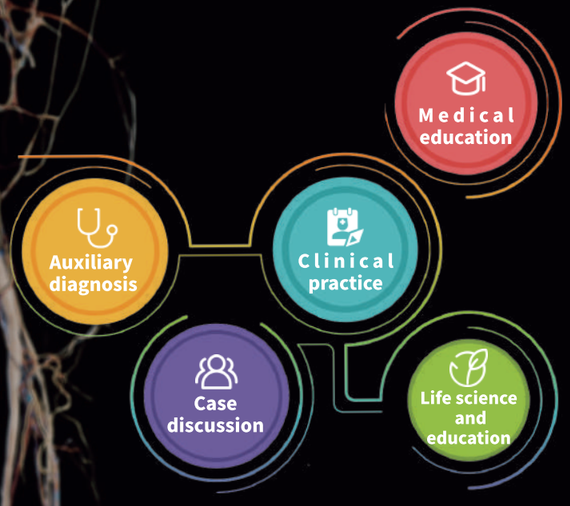


17000 layers
Realistic continuous sections of men/women

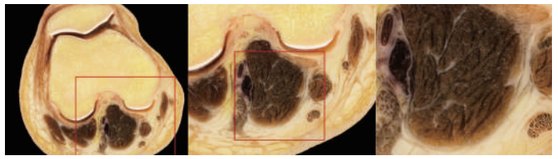
4 sets of data
4 sets of HD data for men/women

0.1mm
Reconstruction precision of 0.1mm

01 HD Digihuman Virtual Dissection Table

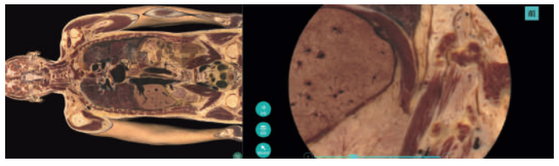


1 HD data and detailed display

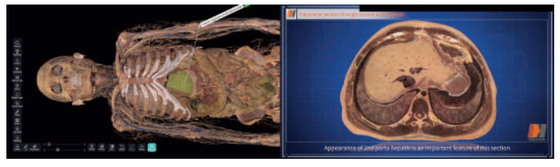


2 Multiple operations and virtual simulation

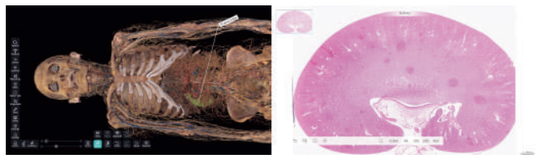
3 Help with clinical application



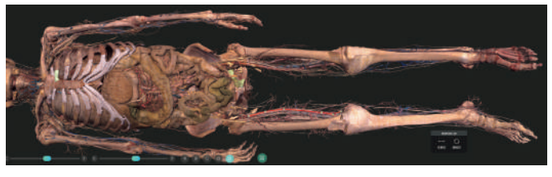
4 Expansion of knowledge structure



5 Digital microscopic structure

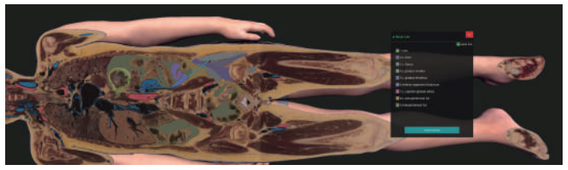


6 Structural annotations

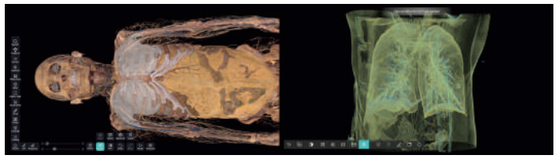


7 Cuts (hierarchical anatomy)

8 Screenshot&Videotaped



9 Clinical case



10 Animal Anatomy

11 Digital medical images

12 Human Embryology

01 HD Digihuman Virtual Dissection Table

02 Digihuman Anatomy Platform

02 Digihuman Anatomy Platform

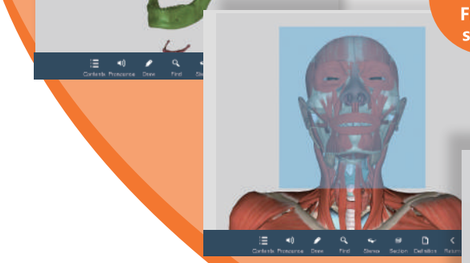
ECDH-Int I 80

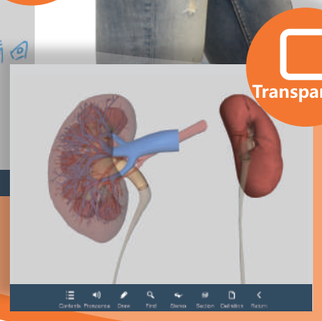
ECDH-Int 55

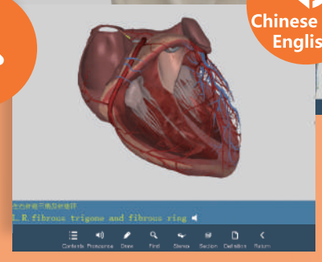
ECDH-Int 86

ECDH-Int 98

02 Digihuman Anatomy Platform





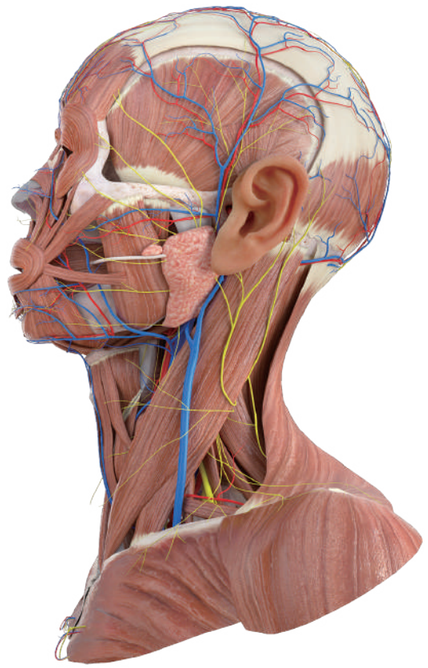


Rich in Functions **Easy To Operate**

The system is designed with a variety of quick and easy-to-use functions, including background switching, labeling, separating, transparency, coloring, stripping, finding, drawing on the fly, and three-dimensional display.

03 Digihuman 3D Anatomy Teaching System

1 The digital human anatomy system based on the 3D reconstruction of continuous real sectional images.
2 Full-featured digital anatomy teaching system.
3 Student autonomous learning system.
4 Simple and quick full touch operating system.
5 Integrated display system.
6 3D projector.



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

All hide
Click the all hide button to empty the entire screen.

Hide
Hide the selected structure.

Undo
Click the undo button with the left mouse button on the right side to get back to the previous operation.

Drag
After clicking the Drag button on the right side, the 3D structure in the scene is separable. You can drag the structure by holding the left mouse button.

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. Click the transparent button on the right to make the structure transparent. Transparency can be adjusted by dragging the slider.

Paint
Click paint button on the right to paint all the structures in the scene for differentiation.

Frameselect
After clicking the button on the right side, hold the left mouse button and draw a box in the scene. The structure in the box is all selected.

04 Digihuman VR Anatomy System

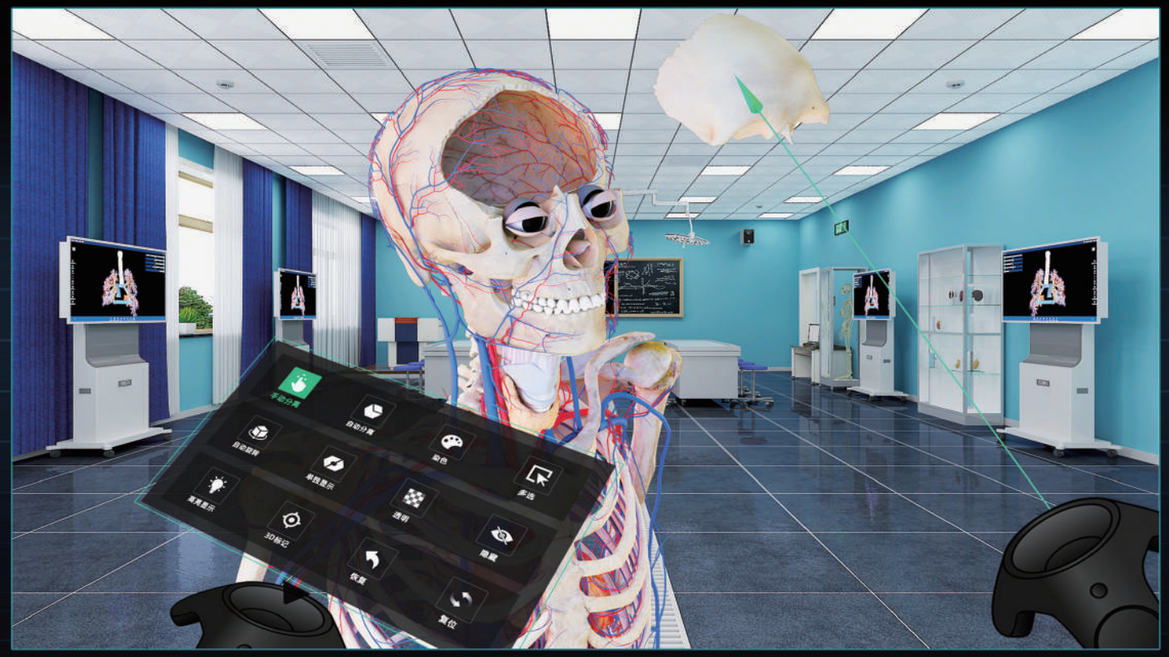
Provide usage modes such as single-person operation and multi-person collaboration

Digihuman VR Anatomy System is based on the continuous section of the real human body, and through information technology and computer technology, the human body structure is digitized. It consists of modules such as systematic anatomy, local anatomy and cognitive testing. It assists users through assistive wizards, multimedia teaching resource library, interactive exercises and puzzle system. The system is characterized by convenient UI interaction, bilingual interface in Chinese and English, and multi-people collaborative classroom mode, which can meet the teaching use of medical schools and universities, as well as the display needs of medical institutions and science and education venues.

Systematic anatomy

Regional anatomy

Cognitive test



Virtual Reality Anatomy Lab

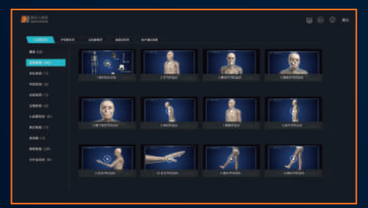
1 Rich and realistic human data

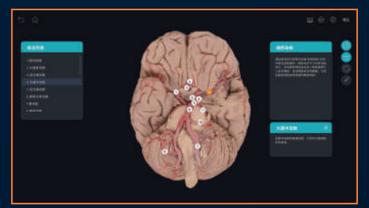
2 Gamified Interactive Learning

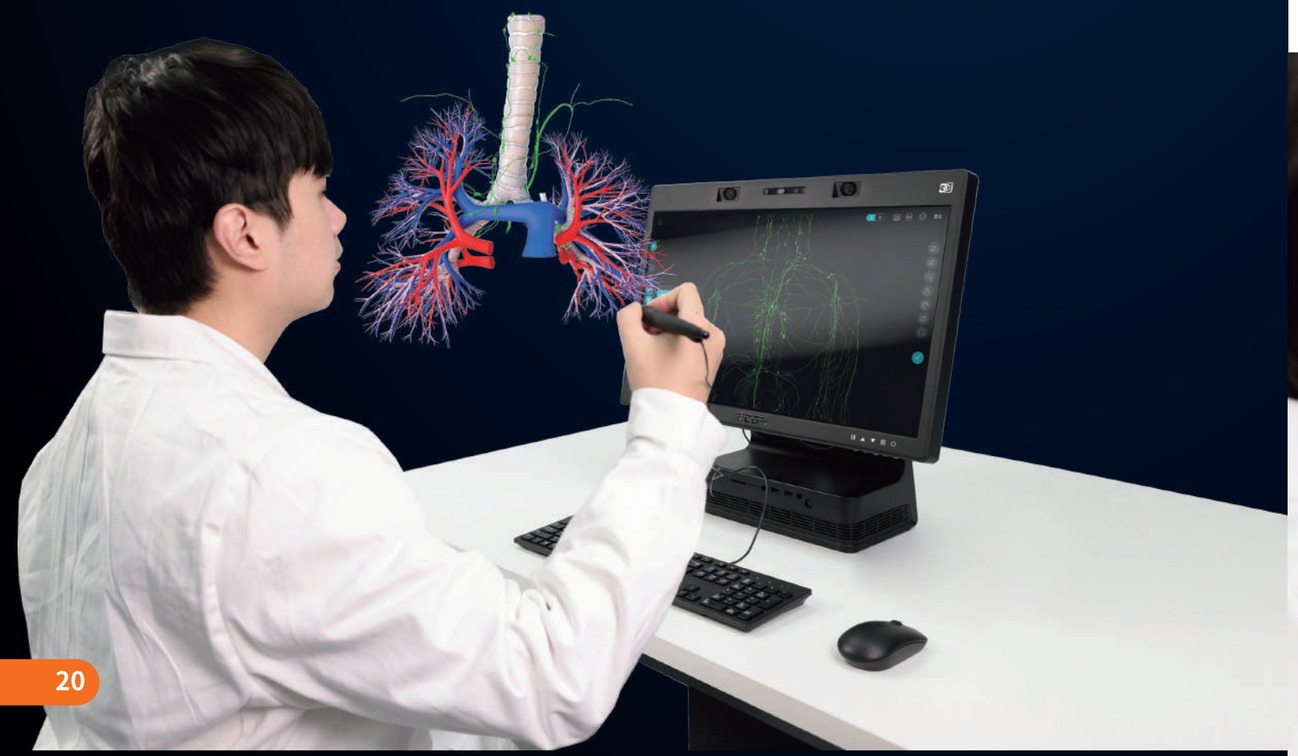
3 Multi-collaboration class mode

05 Digihuman Naked-Eye 3D Anatomy System

Based on the research of Spatial Vision, Digihuman has developed the “Digihuman Naked-eye 3D Anatomy System” by selecting high-end displays of excellent quality and utilizing precise eye tracking technology. Naked-eye 3D is an important technology of meta-universe content display presentation, is also a feature of the Digihuman system, to create a fully immersive learning environment, so that the learner is no longer bound by the 3D glasses, easy to experience the screen to get rid of the limitations of the three-dimensional anatomical effects of the immersive, anatomical teaching intuitive and detailed, novel and convenient, and more visually impactful and shocking!







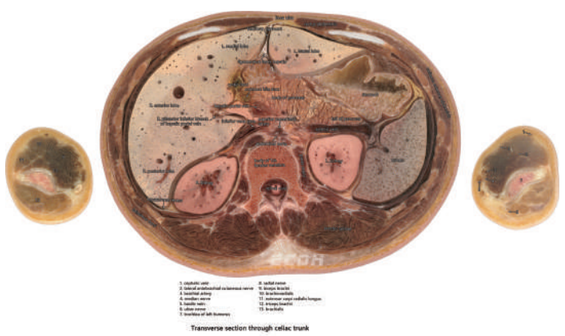
By reproducing the virtual 3D human anatomy in a real environment, the system allows specimens and models that are difficult to access in reality to be freely observed, providing visitors with a sensory experience that transcends reality.

- **Immersive:** a strong combination of immersion, realism and engagement for an unprecedented experience.
- **Easy to operate:** the interface is intuitive and user-friendly, and it only takes a few minutes of practice to master the virtual environment, stylus and navigation operations.
- **Comprehensive content:** the content comprehensively covers systematic anatomy, local anatomy content and other essential anatomy teaching content.
- **Comfortable experience:** Watch realistic and comfortable 3D images without the need for glasses.

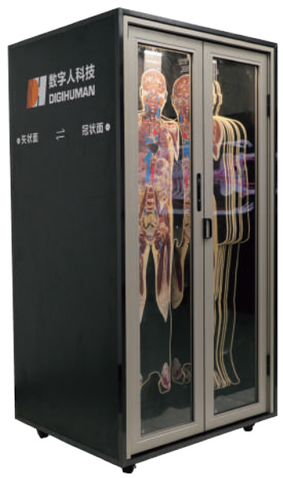
06 HD Tomographic 3D Specimen

Human body tomography specimens are very important teaching tools in anatomy teaching. Traditional human body tomography specimens have some disadvantages, for example, “lack of high quality specimens , unclear structure, fading, expensive, rare in quantity, difficult to keep, and toxic and volatile”.

The human tomographic image is the basis for the 3D reconstruction of the human body, and the magnitude of the information of the tomographic image directly affects the accuracy of the 3D reconstruction. Because of today's technology, we don’t have many methods to get human tomographic, and this will have various deficiencies in traditional anatomical teaching tools.



High-precision continuous tomographic optical images of two complete specimens of men and women were collected by milling. The specimens were continuous human tomographic data with no organic lesions and no missing, digital human HD tomographic 3D printing model by 3D printing technology. The 3D printing model uses a combination of superior and inferior surfaces to print a continuous section with a standard section spacing of 10 mm, a section thickness of 3 mm, 175 sheets of women, 350 sections, and 180 sheets of male and 360 sections. . The print ratio is 1.2:1(Product customization at any pitch and magnification is acceptable, the sagittal plane and coronal plane will come out later).



07 3D Printing Model Series

Doctor-Patient Communication

Medical Simulation

Surgical standardization

Anatomy Teaching

Data Source: select data from high-precision digital human data set, including original sectional data, refined segmentation data and three-dimensional geometric model of organ structure, including anatomical structures such as bone, muscle, blood vessel, nerve and ligament.

Model Making: the voxels in the volume data on the surface of each anatomical structure are extracted from the original section data set, and the texture map of the geometric model is generated to ensure that the appearance of the geometric model of each anatomical structure has a visual perception consistent with the real anatomical specimen.