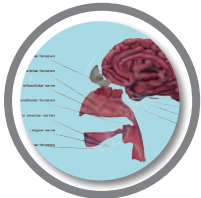




Taiwan Main Orthopaedic Biotechnology Co., Ltd.

Asclepius

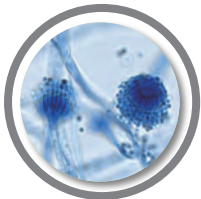
The product is a Virtual Electronic
Anatomy Table for education only.



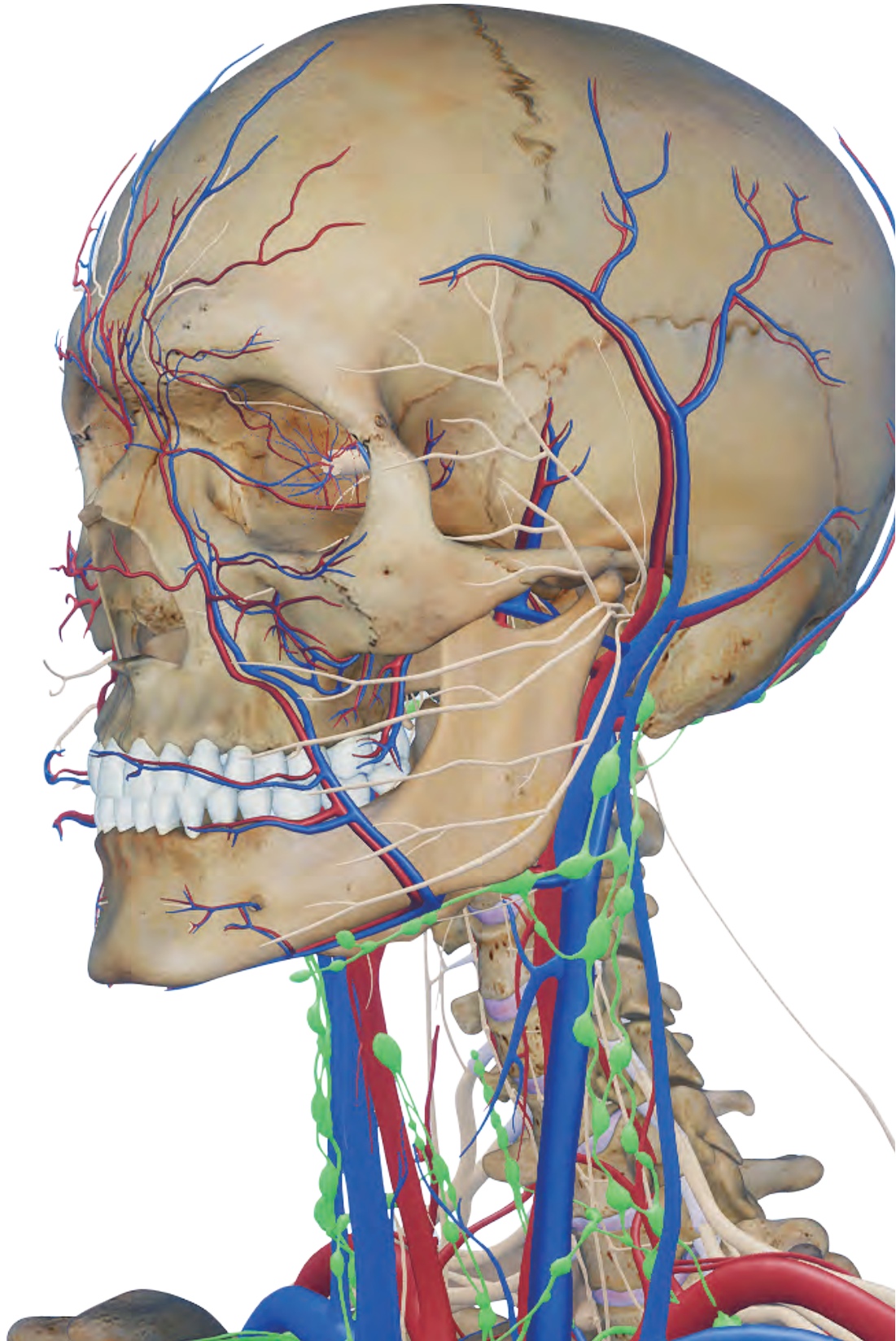
Anatomy



Radiology



Histopathology Atlas





Digitalize Your Anatomy Education

A Perfect Teaching Aid

Asclepius has proved itself to be the best teaching aid a student can have. With a fully annotated human anatomy and ability to read the CT/MRI data and convert it to 3D for better understanding of the human anatomy, Asclepius is becoming popular in the medical educational tools market. The ability to perform all sort of dissection virtually enables the student to understand the complex body structures and easy to remember. Asclepius is also a great tool for the professors in the medical universities as they can use a video output to teach a large group at once with every student able to see and understand the human anatomy.

A Breakthrough in Teaching

Asclepius helps the medical institutions in reducing the per year expense on the real human cadavers. The re-usable content of the Asclepius makes it a lot easier for the students and professors to perform the virtual dissection of the virtual human cadaver the number of times they want, unlike the real human cadaver.

A Environmentally Friendly

Asclepius offers a similar experience like that of cadaver lab but without harmful chemicals and stinky environment. There is no concern about the exposure to radiations or other chemical that can harm the students physically.

A Comparison with Traditional anatomy lab

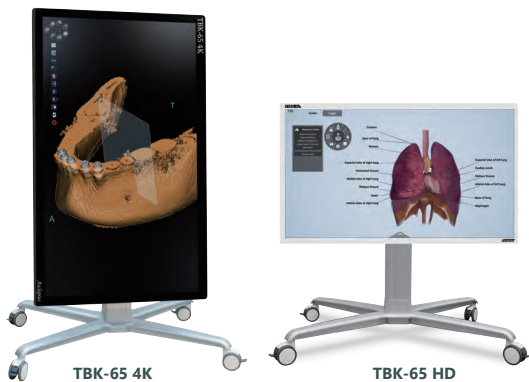
	Asclepius	Traditional anatomy lab
Harmful Chemicals	No	Yes
Facility Requirements	No special requirement	Specially Designed Lab
Regulations	No required	Requires special permissions
Cost	One time	Regularly need to buy human cadavers

A Usage Scenario

The availability of Asclepius in different sizes makes it usable in different usage scenarios.

TBK-43

TBK 43 With the smaller size, portable, it is easy to be used in classrooms to be used by the students to have a hands-on experience on virtual anatomy.



TBK-65 HD | TBK-65 4K

TBK 65 HD/4K With the ability to be tilted/rotated from landscape to portrait and vice versa (only 4K version), it becomes the most suitable for the professors and lecturers to demonstrate the human anatomy.

TBK-99 | TBK-99 EA

TBK 99 is the center of attraction not only because of its size but also for the its life size human cadaver view. TBK 99 can be placed into the virtual anatomy lab where it can be used by either the professors or students as per their convenience.



Utilization

Fully Tech Lab



Asclepius is replacing the real anatomy labs with the virtual anatomy labs enhancing the abilities of the students and professors with the detailed human anatomy along with sectional information about several body systems separately. Also, the RADIOLOGY software helps the students and professors to understand and practice pre-surgical planning before going in to the real-life surgical situations.



Lecture

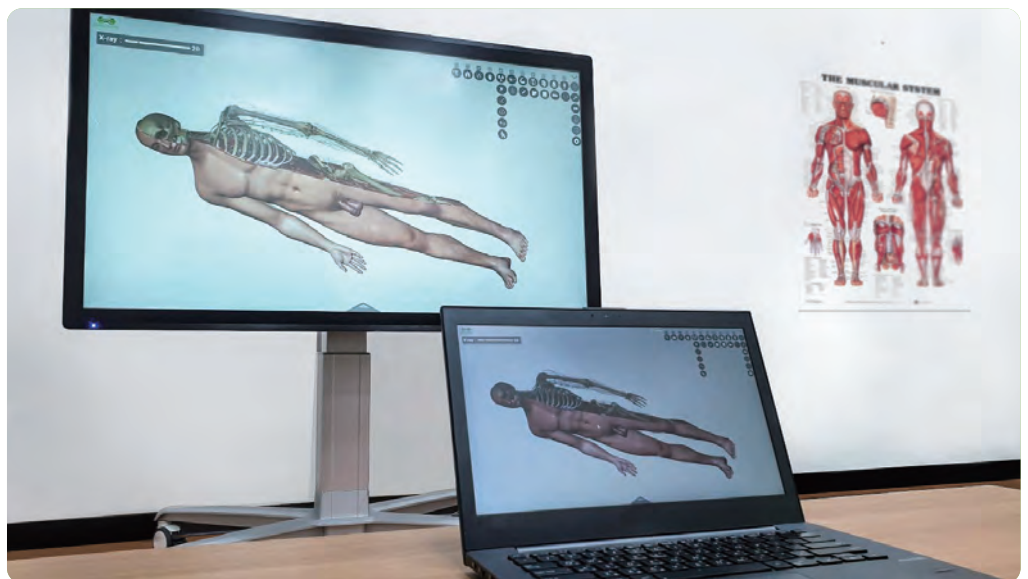
Asclepius' intended use is for the medical institutions and colleges where the professors can connect the table with the projectors to perform a lecture to a small or large group of students. The pre-loaded data in the table with full annotations helps the professors to instruct and easier for the students to memorize while having an idea of shapes and structures of the human organs, external and internal. The professors can prepare their own teaching material to teach the students.



RADIOLOGY

The RADIOLOGY software package of the Asclepius helps the surgeons, professors and the students to train themselves with the pre-surgical planning by reading CT/MRI or DICOM data files and converting it to 3D in less than 30 seconds.

Remote access

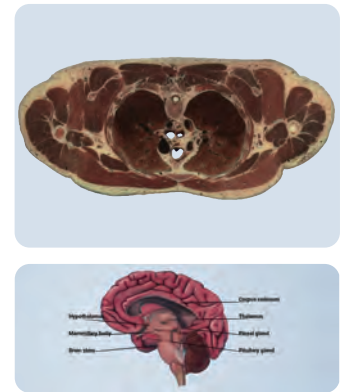
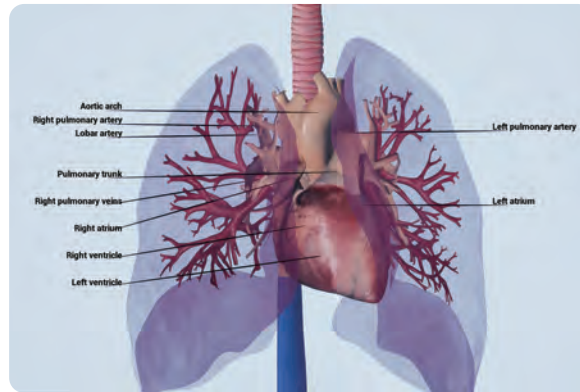


Asclepius series is equipped with the tool to access the table remotely from any location. It provides the flexibility to the professors and instructors to use the Virtual Dissection Table from home as well.

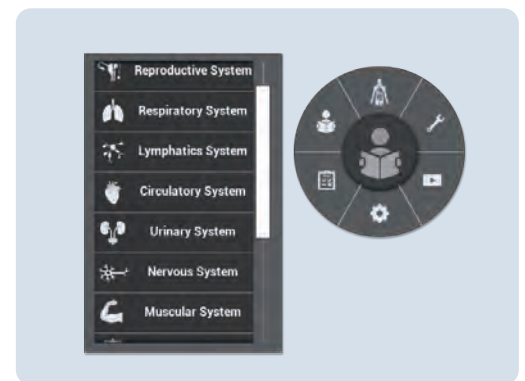
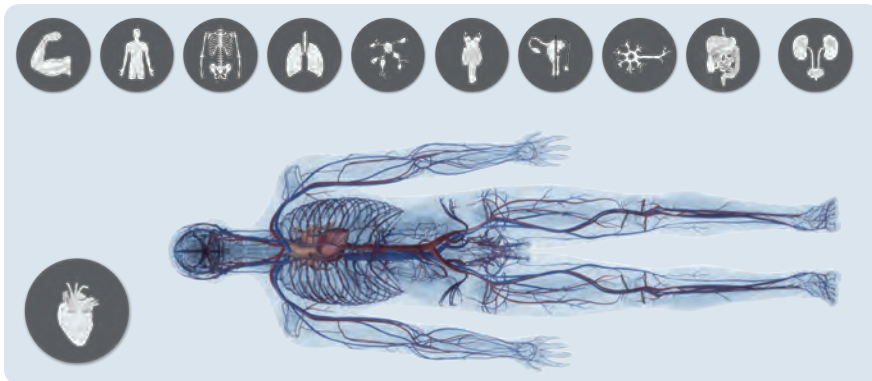
Anatomy Features

Fully Annotated Human Anatomy

Asclepius is equipped with a life size male and female human cadaver with full annotations about the entire body parts of a human. The table is equipped with the different planes of view, i.e., coronal, sagittal and transverse, providing the details of all the human body in depth.



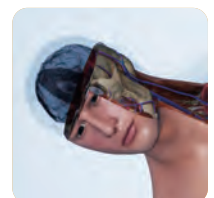
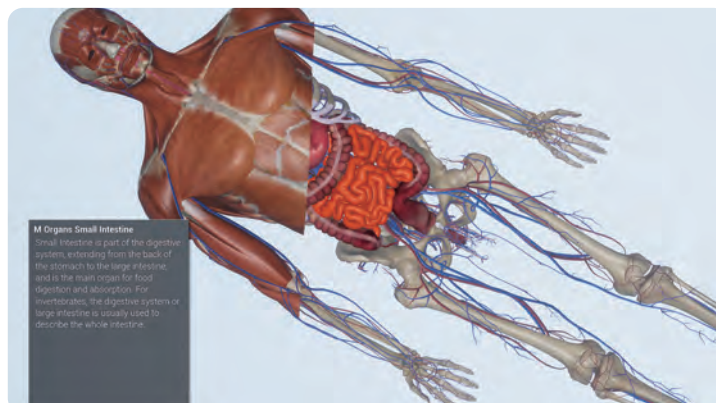
Regional anatomy



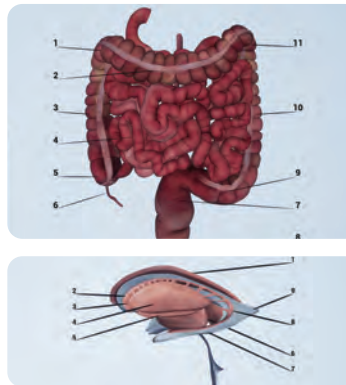
Asclepius content is divided into 11 sections where the professors can teach the students in details each and every segment, for example, reproductive system, respiratory system, and others. These segments make it easier for the students to remember the pictorial presentation of the sectional human anatomy.

Virtual Interactive Dissection

The virtual dissection tool of Asclepius is one of the most user friendly feature available among the virtual dissection tables. One touch dissection of the virtual human cadaver with full annotation is available with the table. Virtual dissection feature is replacing the traditional anatomy labs in the universities as it is re-usable any number of times.

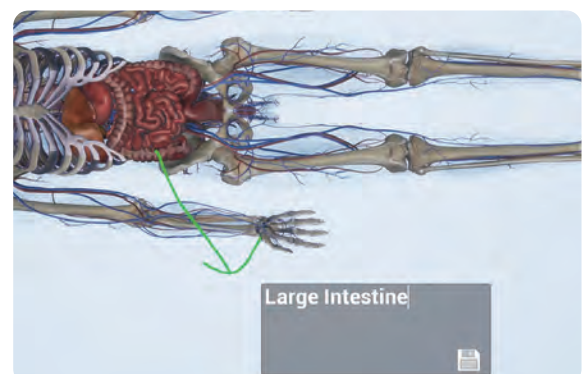
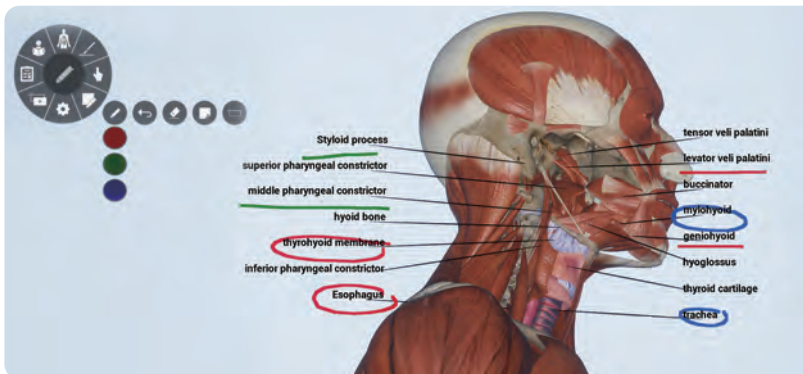


Quiz



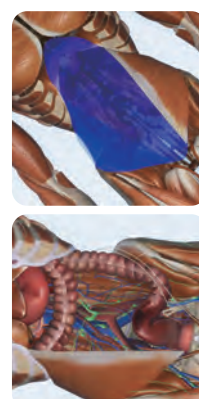
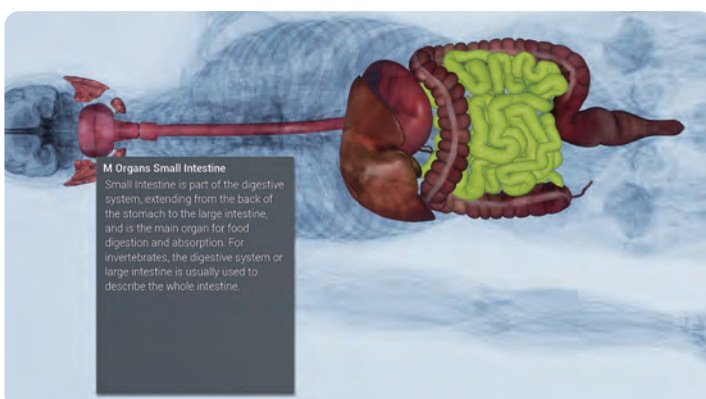
Asclepius comes with a pre-installed quiz for the professors to check the student's understanding of the taught content. Asclepius also provides a cloud-based system where the professor's can design their own questionnaire and use it to evaluate the students.

Note



Asclepius is equipped with the tool where the teachers can mark a note or enter a text as a note while teaching and take a screenshot and save it in the external USB to be used during other lectures.

Coloring

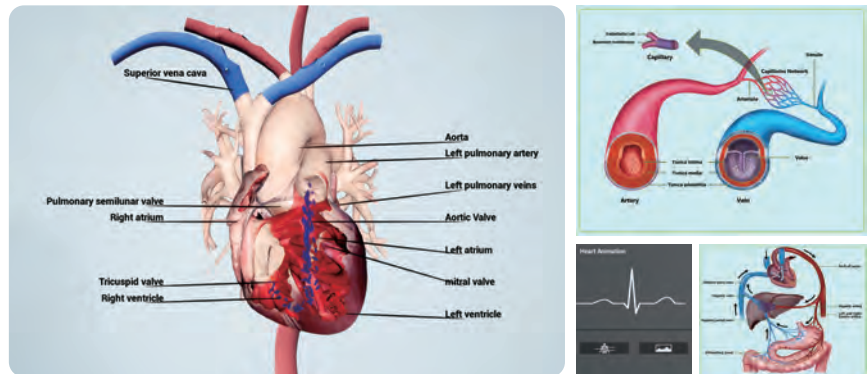


Coloring refers to color the selected body part to be changed to the different color to make it more highlighted if the instructor wants to teach a specific body part. For example, if a lecturer wants to teach External Oblique, the lecturer can select all three regions of the external oblique and change it to a different color.

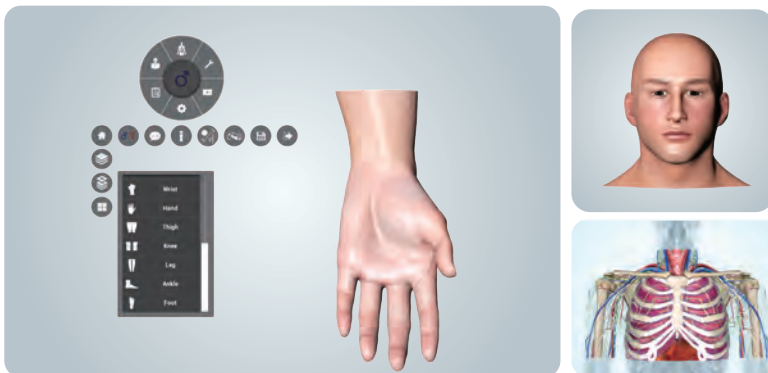
Anatomy Features

Organ animation

Asclepius is equipped with the animations of the heart with full annotation describing the parts of the heart, simulation of the heartbeat along with the ability to view the sagittal, coronal and transverse view of the beating heart.



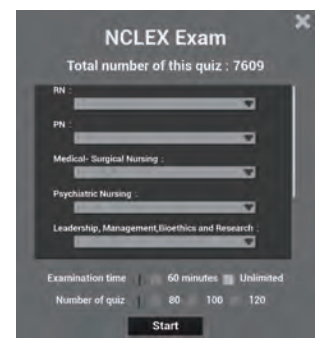
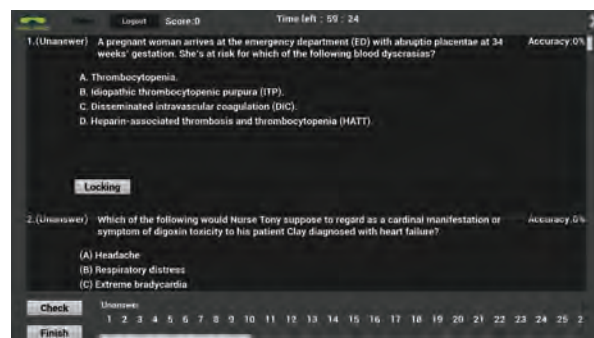
Sectional Anatomy



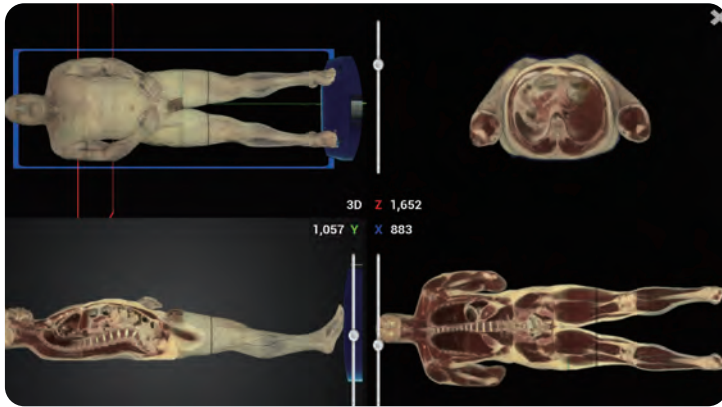
Along with the full human anatomy, Asclepius comes with the regional anatomy of the human as well where the human body is divided into chest, ankle, elbow, thighs and more.

Multiple choice exam

Asclepius comes with pre-loaded more than 12,000 quizzes covering all of the medical curriculum.



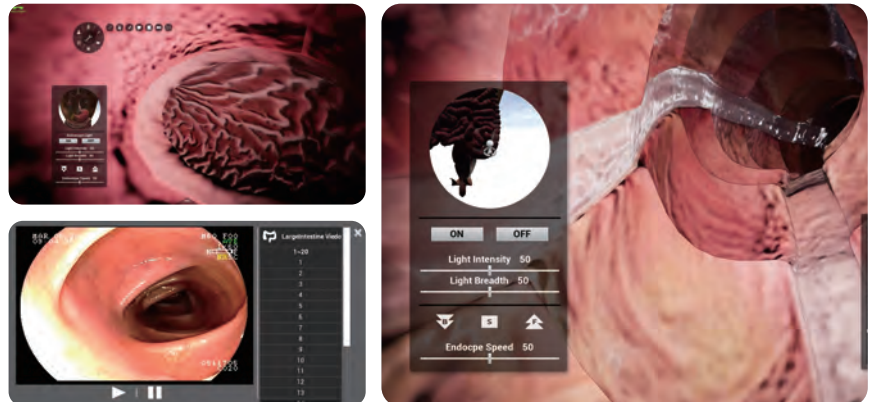
3 Axis Display Mode



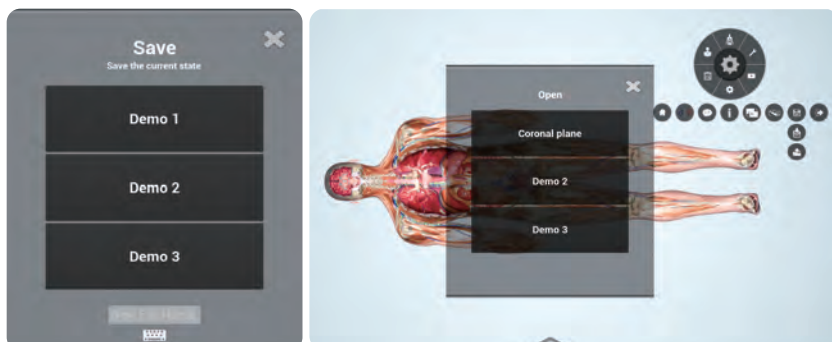
The possibility of viewing all the 3, sagittal, coronal and transverse, view now comes in handy with the Asclepius. With the control bar, it gives the professors and instructors a full control on the view point of the human anatomy.

Endoscope Teaching Mode

Endoscope teaching mode gives the professors, students and instructors an advantage to travel through the hollow organs of the human body. This feature comes with the zoom in-zoom out, illuminating lamp, adjusting the aperture and the movement rate.



Save the current state



Asclepius gives the professors to save the current teaching on the screen so as to use retrieve the same content while teaching for next class or lesson.

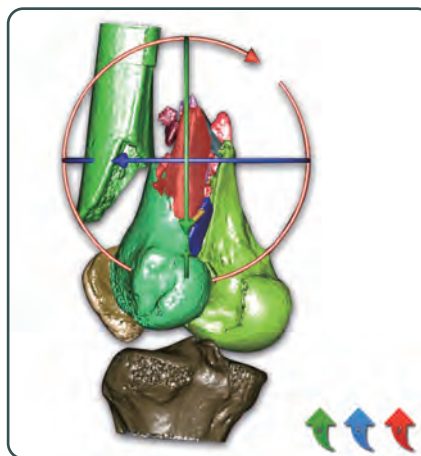
Radiology Features

Radiological Viewer

Radiology is an educational application software system for audio-visual imaging. It provides image applications in DICOM medical image format. It can read 3D image models with CT, MRI and 2D/3D image conversion operations. Radiology provides visual analysis of DICOM data and 2D/3D image conversion for biomedical engineering education, digital medical image viewing and image model simulation analysis.



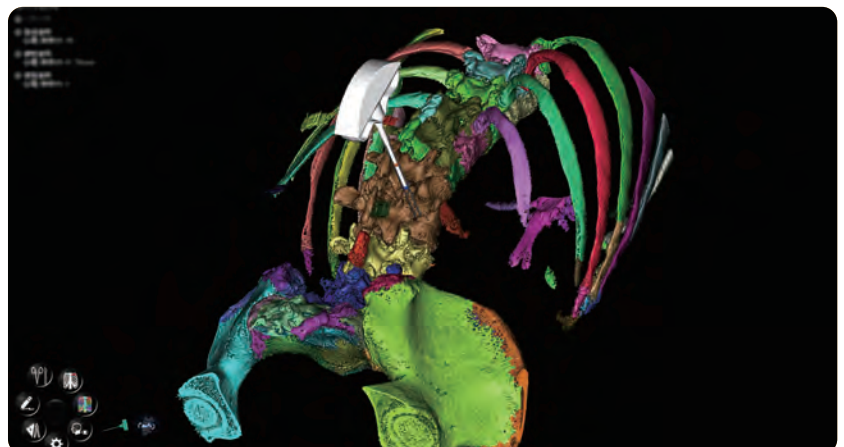
Image Tool

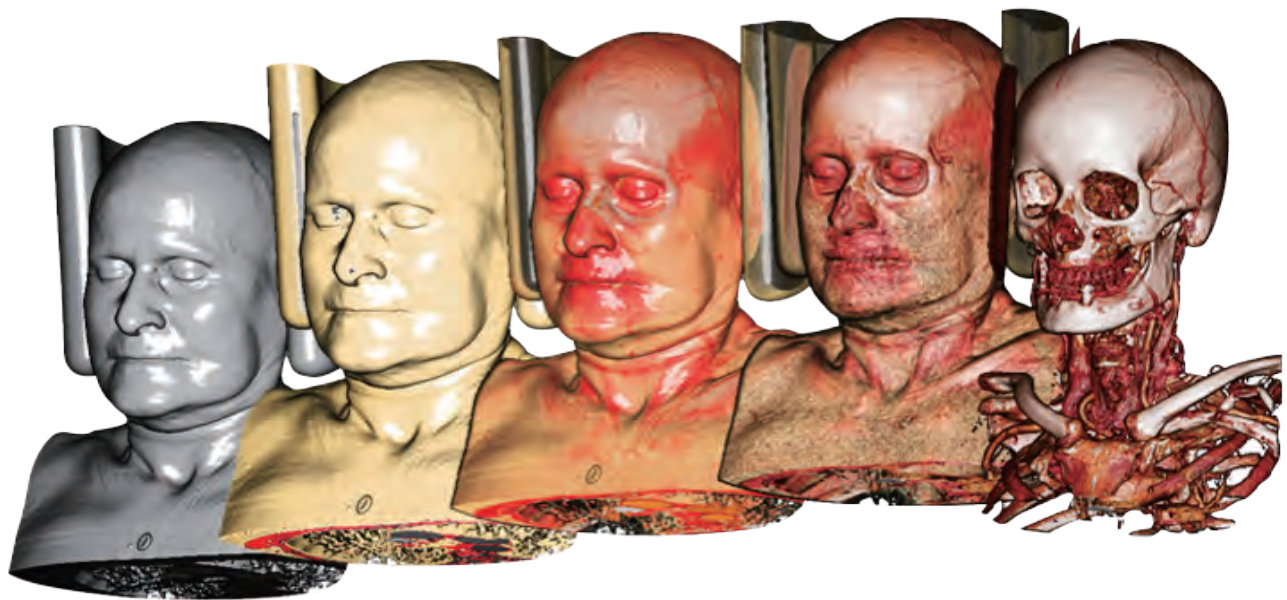


Radiology provides basic operation and use multiple image features, such as image processing, image rendering and image measurement, drawing tools, and has a plurality of core Radiology computing technology, including 3D image area split, cutting and application object and image simulator suitable for general use of medical imaging operation.

Simulation of pre-surgical planning for education

Radiology is dedicated to the software system for orthopedic medical imaging educational applications. It has developed a number of digital image simulation operations and visual image operations. This is also the Radiology's core processing operation function for the pre-surgical simulation planning of digital images to educate the future doctors and surgeons.



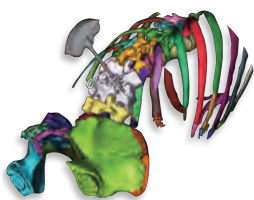


Simulation

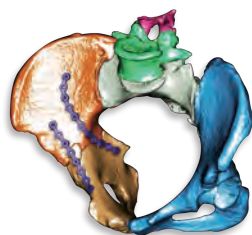
- ▣ Spinal puncture path planning simulation
- ▣ General/customized bone plate planning simulation
- ▣ Screw locking / SI locking screw / screw implant planning simulation
- ▣ Manual reset / automatic symmetrical reset planning simulation

Reading

- ▣ CT
- ▣ MRI
- ▣ X-Ray
- ▣ C-Arm



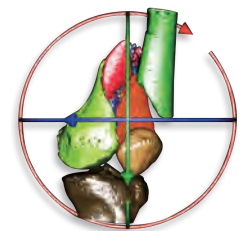
Spinal puncture



Bone plate

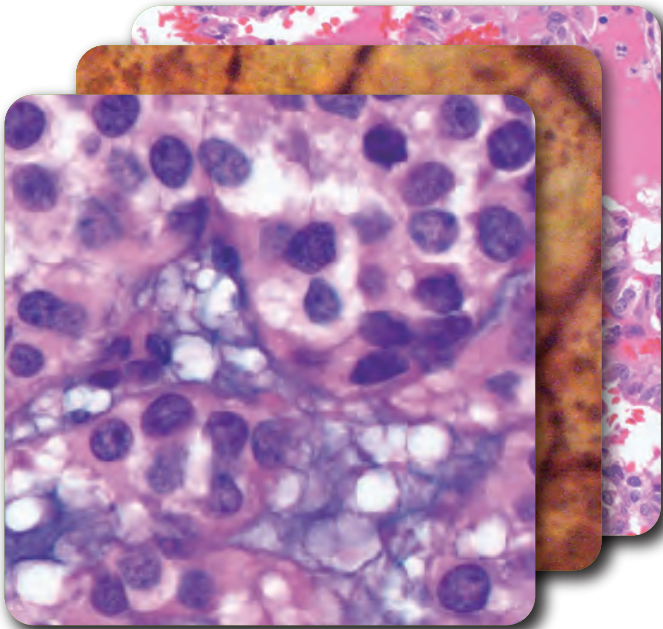


Dental Screw

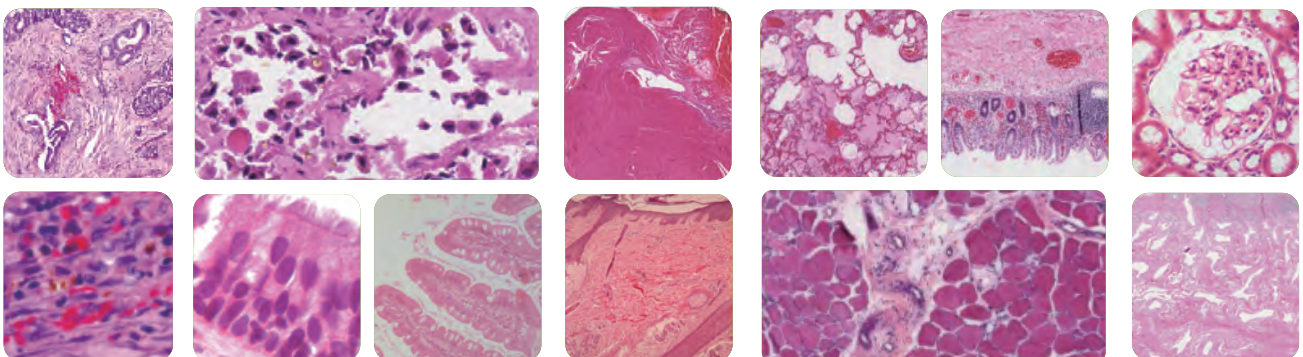


Reduction of fracture

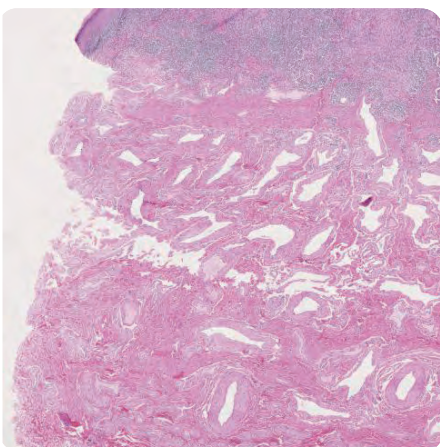
Histopathology Atlas



Histopathology Atlas provides an application tool for the image and movies, which could load the image for operation. Image reading formats support *.jpg, *.png, *.tif, *.bmp and other image format files. Movie reading formats support *.mkv, *.mp4, *.avi, *.mov and other movie format files. The Histopathology Atlas system operation interface includes the selection of using the Pathology and Histology menu interfaces. The main image operation interface is the display interface of 2D the image and provides the selection and use of tools, including image list, basic tools, brush tools, image adjustment tools and note storage functions.



Annotation

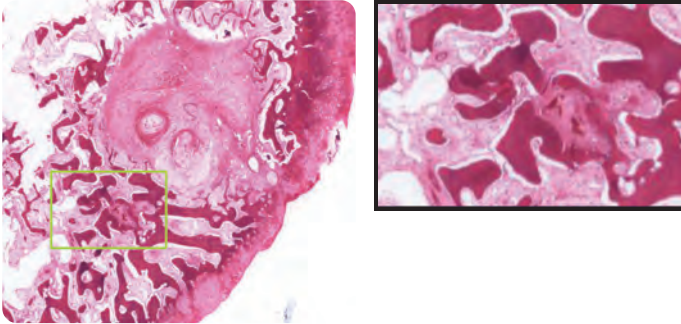


Standard description of the Pathological Case is pre-loaded with the image of the Pathological Case

Annotation

Squamous cell carcinoma About 95% of penile cancers start in flat skin cells called squamous cells. Squamous cell carcinoma (also known as squamous cell cancer) can start anywhere on the penis. Most of these cancers start on the foreskin (in men who have not been circumcised) or on the glans.

Amplification



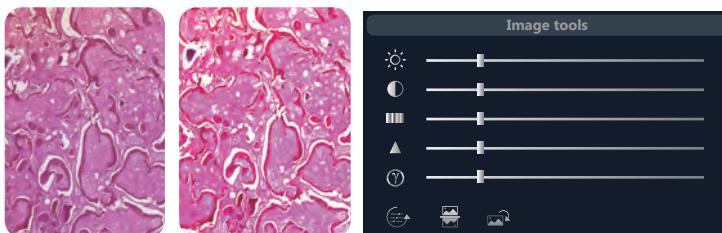
Helps you amplify and enlarge the targeted area to make it more clear and understandable.

Pen tool



A marker which helps the professors and instructors to put foot notes on the images and take a screenshot for the next classes.

Image tool

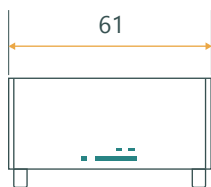


The image tool provides the flexibility to adjust the quality of the image on the screen by adjusting the brightness, contrast or sharpness of the image.

Hardware Description

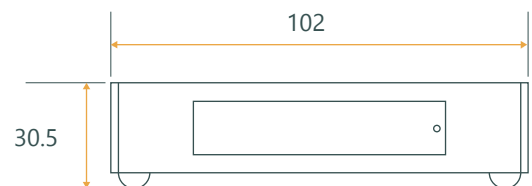
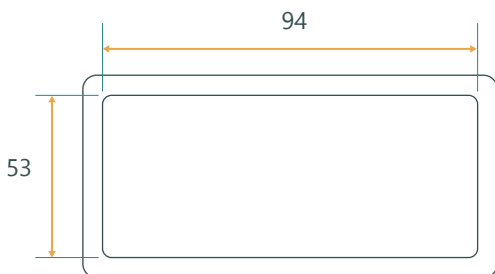
TBK-43

Anatomy + Radiology



CPU	—————	Intel i5
RAM	—————	8 GB
HDD	—————	1 TB
Screen size	—————	43 inch
Resolution	—————	1920 X 1080
Weight	—————	46.5 kg

* Taiwan Main Orthopaedic Biotechnology Co., Ltd would upgrade the system for better performance at our discretion.



Unit: * cm

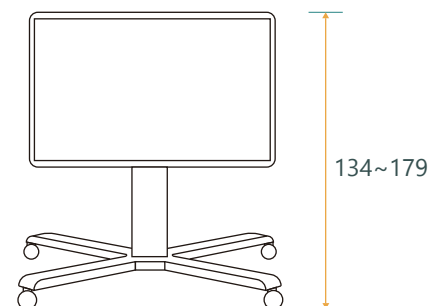
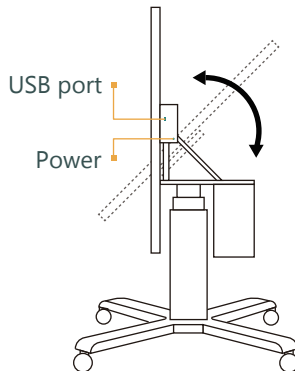
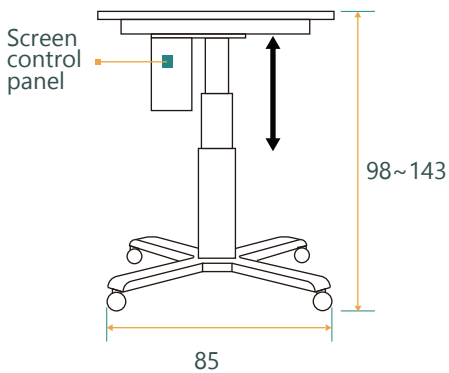
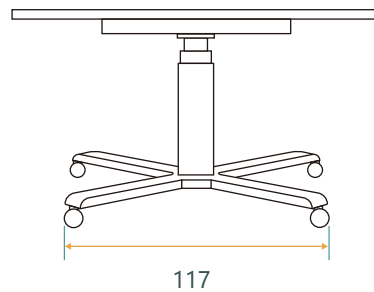
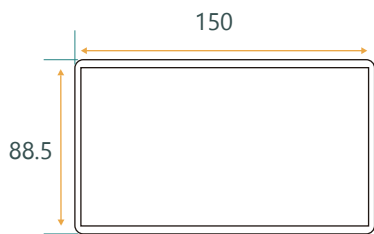
TBK-65

Anatomy + Radiology



CPU	—————	Intel i5
RAM	—————	16 GB
HDD	—————	2 TB
SSD	—————	240 GB
Screen size	—————	65 inch
Resolution	—————	1920 X 1080
Weight	—————	94 kg

* Taiwan Main Orthopaedic Biotechnology Co., Ltd would upgrade the system for better performance at our discretion.

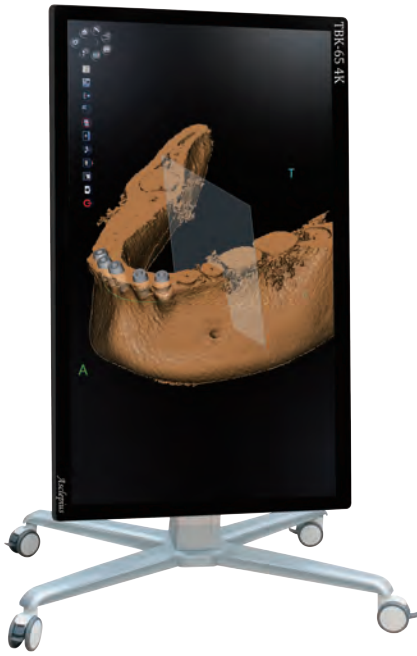


Unit: * cm

Hardware Description

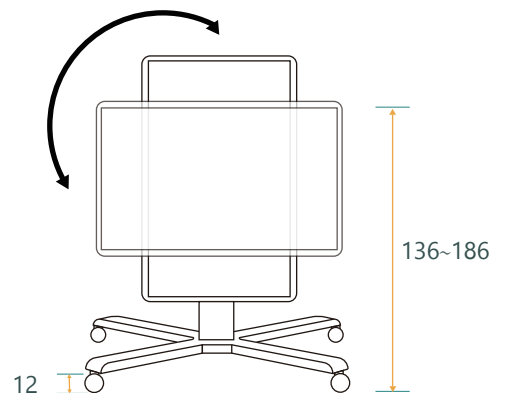
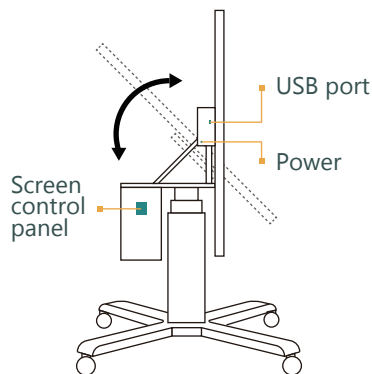
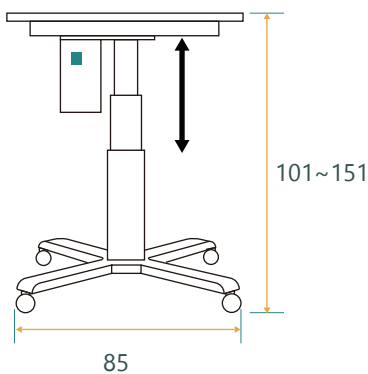
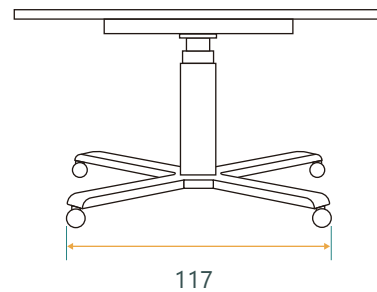
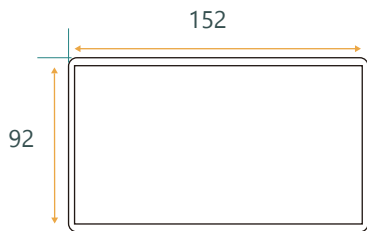
TBK-65 4K

Anatomy + Histopathology Atlas + Radiology



CPU	—————	Intel i9
RAM	—————	16 GB
HDD	—————	4 TB
SSD	—————	512 GB
Screen size	—————	65 inch
Resolution	—————	3840 X 2160 (4K)
Weight	—————	105 kg

* Taiwan Main Orthopaedic Biotechnology Co., Ltd would upgrade the system for better performance at our discretion.



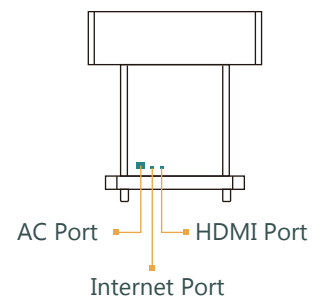
Unit: * cm

TBK-99

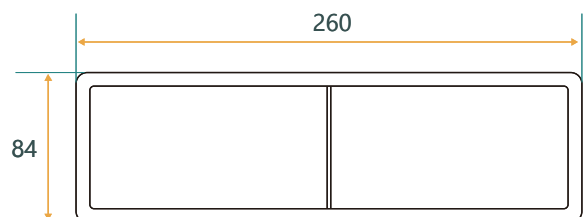
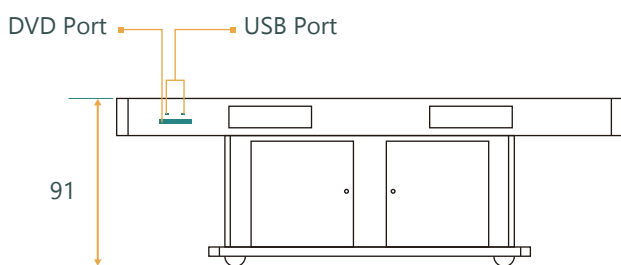
Anatomy + Histopathology Atlas + Radiology



CPU	—————	Intel i9
RAM	—————	16 GB
HDD	—————	8 TB
SSD	—————	1 TB
Screen size	—————	99 inch
Resolution	—————	3840 X 1080
Weight	—————	185 kg



* Taiwan Main Orthopaedic Biotechnology Co., Ltd would upgrade the system for better performance at our discretion.



Unit: * cm

Hardware Description

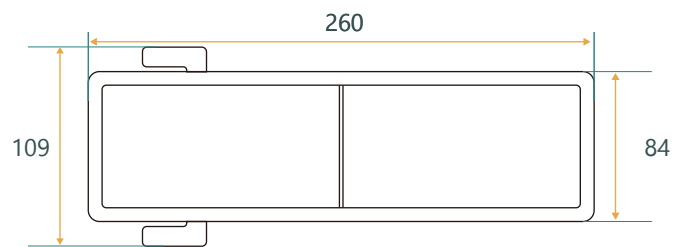
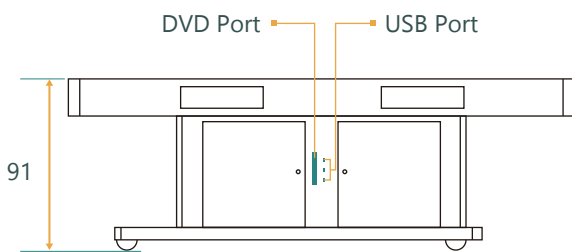
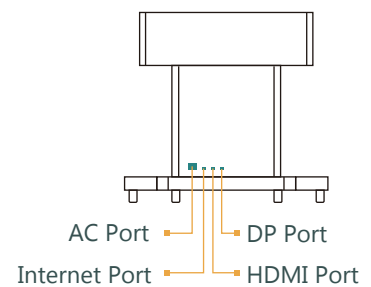
TBK-99 EA

Anatomy + Histopathology Atlas + Radiology



CPU	Intel i9
RAM	16 GB
HDD	8 TB
SSD	1 TB
Screen size	99 inch
Resolution	3840 X 1080
Weight	325 kg

* Taiwan Main Orthopaedic Biotechnology Co., Ltd would upgrade the system for better performance at our discretion.



Specification List

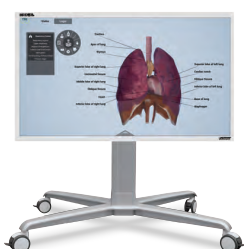
	TBK-43	TBK-65 HD	TBK-65 4K	TBK-99	TBK-99 EA
CPU	Intel i5	Intel i5	Intel i9	Intel i9	Intel i9
RAM	8 GB	16 GB	16 GB	32 GB	32 GB
HDD	1 TB	2 TB	4 TB	8 TB	8 TB
SSD	-	240 GB	512 GB	1 TB	1 TB
Screen size	43 inch	65 inch	65 inch	99 inch	99 inch
Screen Dimension	94 × 53 cm	150 × 88.5 cm	152 × 92 cm	260 × 84 cm	260 × 84 cm
Resolution	1920 X 1080	1920 X 1080	3840 X 2160 (4K)	3840 X 1080	3840 X 1080
Weight	46.5 kg	94 kg	105 kg	185 kg	325 kg
Product's volume	186660 cm ³	1300950 cm ³	1412384 cm ³	1987440 cm ³	2578940 cm ³
Angle	-	0° ~ 90°	0° ~ 90°	-	0° & 90°
Rotation	-	-	Left 90°	-	-
Height adjustment (Horizontal)	-	98-143cm	101-151cm	-	-
Height adjustment (Vertical)	-	134-179cm	136-186cm	-	-
Software	Anatomy Radiology	Anatomy Radiology	Anatomy Radiology Histopathology Atlas	Anatomy Radiology Histopathology Atlas	Anatomy Radiology Histopathology Atlas



TBK-43



TBK-99



TBK-65 HD



TBK-65 4K



TBK-99 EA

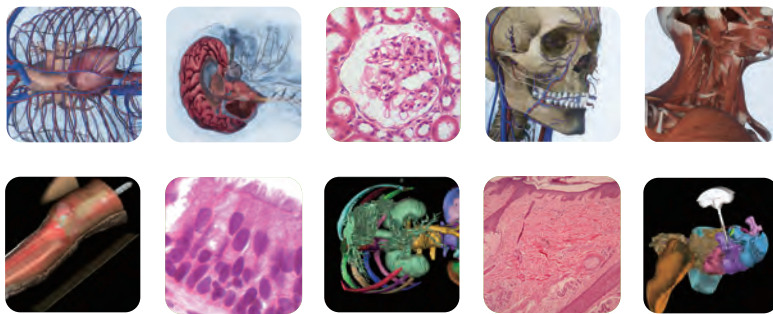


SURGLASSES

www.surglasses.com

Taiwan Main Orthopaedic Biotechnology Co., Ltd.

Asclepius



Представител за България
Илан Медицинска Апаратура ООД
София • Варна • Плевен • Стара Загора • Пловдив
тел. 070017373
E-mail: office@ilan.bg
Web: www.ilan.bg

www.surglasses.com

Fax +886 4-2565-3330 | info@surglasses.com

Tel +886 4-3707-3159 Ext.207 | tbk.sales@surglasses.com

1F., No.46, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)