FORESEE-X

Augmented Reality Smart Surgical Glasses

GMP CERTIFIED ISO 13485:2016 CE

SURGLASSES
MEDICAL IMAGE PROCESSING SYSTEM

POWER   VGA   DVI   BNC

Company profile

Taiwan Main Orthopaedic Biotechnology Co. Ltd was founded in the year 2017 in March. Since the startup of the company, it has become the hub for the software innovation for health care and minimal invasive surgeries which includes the pre-surgical planning, navigation software for the surgeries and medical information system.

Taiwan Main Orthopaedic Biotechnology is determined to develop the software and the hardware for the medical and health care industry in a long term. The company designed its own medical software and hardware which includes the 3D Smart Surgical Glasses with image processing software and ability to see the 3D view of the patient's internal organs in the glasses itself. The company plans to keep contributing to the medical and health care sector with new innovations being it hardware or software for the betterment and advancement of the sector for better efficiency and reducing the risks.

The company designed the software in accordance with the requirements from the surgeons, professors and doctors. The engineers work closely with the surgeons to get the maximum input and use your suggestion and practice to bring it into reality, enhancing the accuracy of the surgeons and doctors and the knowledge of the professors within the techno-friendly environment. The company monitors and tests the quality of the software and hardware very rigorously as the company's main objective is to provide a safe environment to different medical sectors for improving the efficiency and accuracy.

2018
IAPS Award

2018
ICT Month
Innovative Elite

TTA
10 COOLEST
STARTUPS
2019

台灣精品 2020
TAIWAN EXCELLENCE

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Contraindications

The contraindications of this product are all medical contraindications included in the medical procedure itself when performing medical procedures.
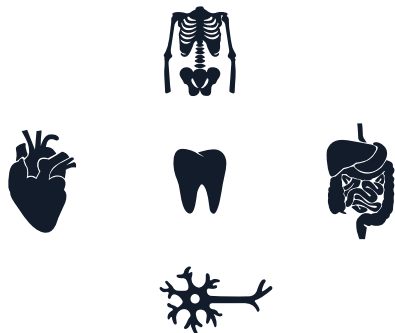
Precautions

- **This product is not waterproof, please don't make it wet.**

- **If the product is dropped, the electronic components will be damaged, please use it with care.**

- **Do not disassemble, repair or modify the monitor. It may cause fire, electric shock or personal injury. Consult the dealer for repair.**

- **The wireless system may interfere with the use of other wireless devices. Before using, please make sure that the wireless system connection and other necessary devices are functioning properly.**

- **Please note that the wires and instruments connected to this device must pass the IEC60601-1 certification, IEC60065 or other IEC/ISO standards.**

- **The obtained data is used to assist diagnosis, and the data must be interpreted by qualified professional medical personnel only.**

- **Before using this product, each user must read and understand the documentation and manual of the application software.**

- **Each user must follow the precautions mentioned in the original documents and user manuals**.

Functions

The system is fully functional and can assist the doctor to perform the operation more smoothly.

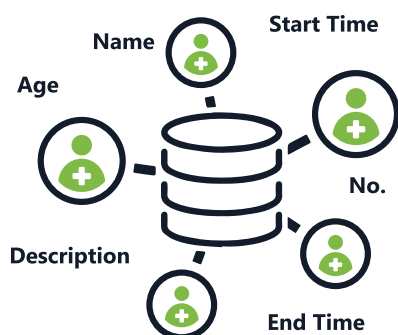## Application area

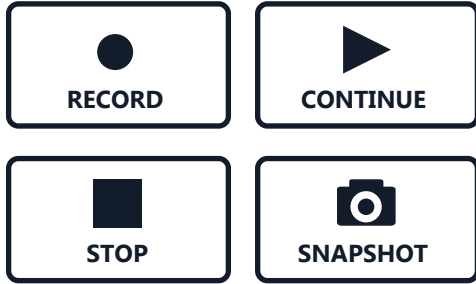**The application area of the Foresee-X also like Orhto, Dental, Nuero, Cardio, etc.**

PACS

PACS connectivity, allowing physicians to freely access the medical images of the patients from the hospital server from previous surgeries for evaluation.

Enter patient information

The medical staff can input the patient's detailed information by themselves, so that the doctor can call up the patient's information at any time.

Name
Start Time
Age
Description
No.
End Time

Video recording, screenshot and other functions

RECORD

CONTINUE

STOP

SNAPSHOT

Record the whole process of the operation and create a file for retention. It can be used for medical research, writing papers, and avoiding medical disputes at a later point of time.

Connect with various medical imaging equipment

It can switch various signal elements, connect with C-arm, endoscope, ultrasound, etc., to transmit medical images.

VGA

DVI

BNC

Image adjustment

The images taken by medical imaging equipment can be adjusted to make the images clearer.

Data access

The videos and images after recording and screenshots can be stored in the Foresee-X system, or taken out by CD or USB for further analysis.

Connect with multiple glasses at the same time

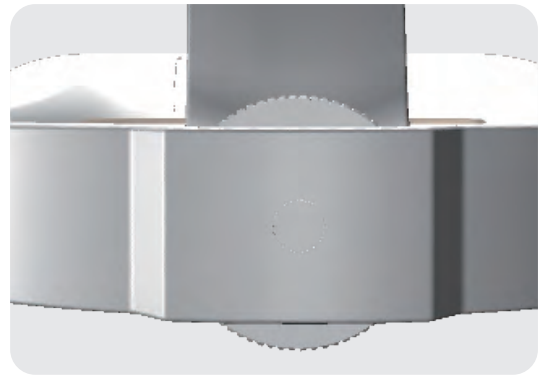**It is convenient for students to learn more clearly from the perspective of the chief surgeon.**

"Product design

Comustomfortable and convenient for the users even if they wear it for a long time without feeling any discomfort. "
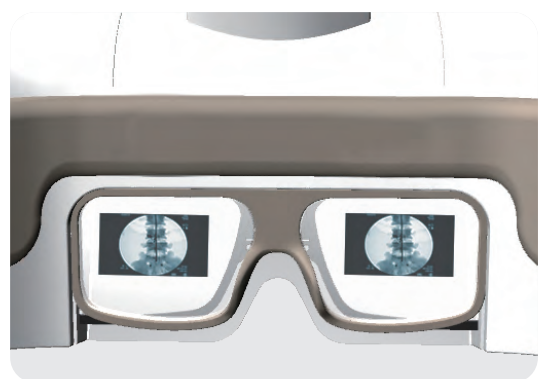
Adjust the head circumference of the glasses and freely choose the tightness required by the user.

The height of the cushion on the top of the glasses can be adjusted to match the user's head shape and improve comfort.

High-quality resolution, you can clearly see the details of all images. Multiple lenses with different power comes with the system along with the ability to be customized according to the user's requirement and can be replaced easily.
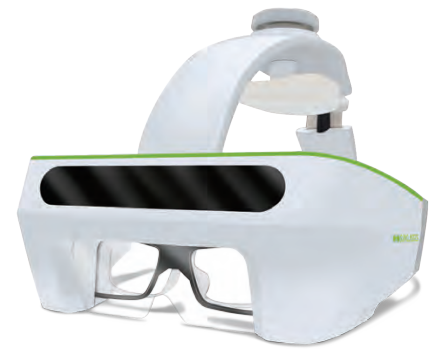
SURGLASSES

Product specifications

Head Set

REF No.	6-A003-001-01
FOV	32.5° degree
Resolution	1280 × 720
Aspect ratio	16:9
Brightness	4000 nit
LOE thickness	1.6 mm
Throw ratio	52.6" virtual image at 2m distance
Dimension	186mm × 265mm × 178mm

Connection System

REF No.	6-A006-001-01
Wi-Fi	802.11a/b/g/n/ac
Ethernet	Native Gigabit Ethernet
Battery	Li-ion Polymer Battery 30000mAh
Power	Output 12/3A
	Input 100-240V(50/60Hz)
Dimension	238 × 115mm × 164mm

Control System

REF No.	6-A005-001-01
Output resolution	1920 × 1080
Power	100-240V(50/60Hz)
CPU	I7-9700
RAM	16G DDR4
Flash	SSD 512GB
Input interface	DVI-I, HDMI×2, VGA, BNC
USB input/output	USB 3.0, USB 2.0
Dimension	522mm × 380mm × 140mm

Monitor

REF No.	4-DU-00005-01
Screen size	23.6 inch
Resolution	1920 X 1080 FHD
Aspect ratio	16:9
Dimension	560mm X 400mm X 490mm
port	HDMI, VGA

Router

REF No.	4-AG-00001-01
Networking standard	802.11a/b/g/n/ac, IPv4, IPv6
Power adapter	Output 12/1A ; Input 100-240V(50/60Hz)
Frequency band	2.4GHz/5GHz
Dimension	189mm X 129mm X 36mm

Accessories

Black Lenses

REF No.	Name	Specification
4-AB-00001-01	Black lenses	Transparent
4-AB-00002-01	Black lenses	Black
4-AB-00003-01	Black lenses	Half black
4-AB-00004-01	Black lenses	Translucent black

lenses

REF No.	Name	Specification
4-AE-00001-01	Basic standard Glasses Lenses	Degree : 100
4-AE-00002-01	Basic standard Glasses Lenses	Degree : 200
4-AE-00003-01	Basic standard Glasses Lenses	Degree : 300
4-AE-00004-01	Basic standard Glasses Lenses	Degree : 400
4-AE-00005-01	Basic standard Glasses Lenses	Degree : 500
4-AE-00006-01	Basic standard Glasses Lenses	Degree : 600
4-AE-00007-01	Basic standard Glasses Lenses	Degree : 700
4-AE-00008-01	Basic standard Glasses Lenses	Degree : 800
4-AF-00001-01	Customized Glasses Lenses	for physicians

Other

REF No.	Name	Specification
4-AH-00001-01	Keyboard mouse combo	Wireless
4-AQ-00001-01	Workstation	--

Cable

REF No.	Name	Specification
4-AI-00001-01	DVI Extension cord	3m,male to male cord
4-AJ-00001-01	BNC Extension cord	3m,male to male cord
4-AK-00001-01	HDMI Extension cord	male to male cord
4-AL-00001-01	Power cable	3m,American power cord
4-AM-00001-01	Extension cord	3m,6 Socket Extension Board
4-AN-00001-01	Ethernet cable	CAT6,3m
4-AV-00001-01	Connector	Generic DVI to VGA
4-PS-00005-01	Power Adapter	AC IN:100-240V,DC OUT:12V/3A
4-BA-00001-01	Battery	30000mAh,4port,12A

Case

REF No.	Name	Specification
4-AA-00001-01	Head Set Case	568mm × 390mm × 250mm

Cleaning kit

REF No.	Name	Specification
4-AC-00001-01	Cleaning kit	Anti-fog spray,Alcohol spray
4-BJ-00002-01	Microfiber cleaning cloth	150mm × 150 mm

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