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Healthward

HWZ7z

ICU SMART BED

THE EVOLUTION
FROM HOSPITAL BED
TO WORKING TOOL

Working alongside individuals in critical situations, we recognized the pivotal role of the bed.

- The question arose: to what extent can care be enhanced by improving the operator's capabilities through the bed?

- Transforming the approach, we see designing a bed tailored to the caregiver as not a constraint but an influential and adaptable instrument.

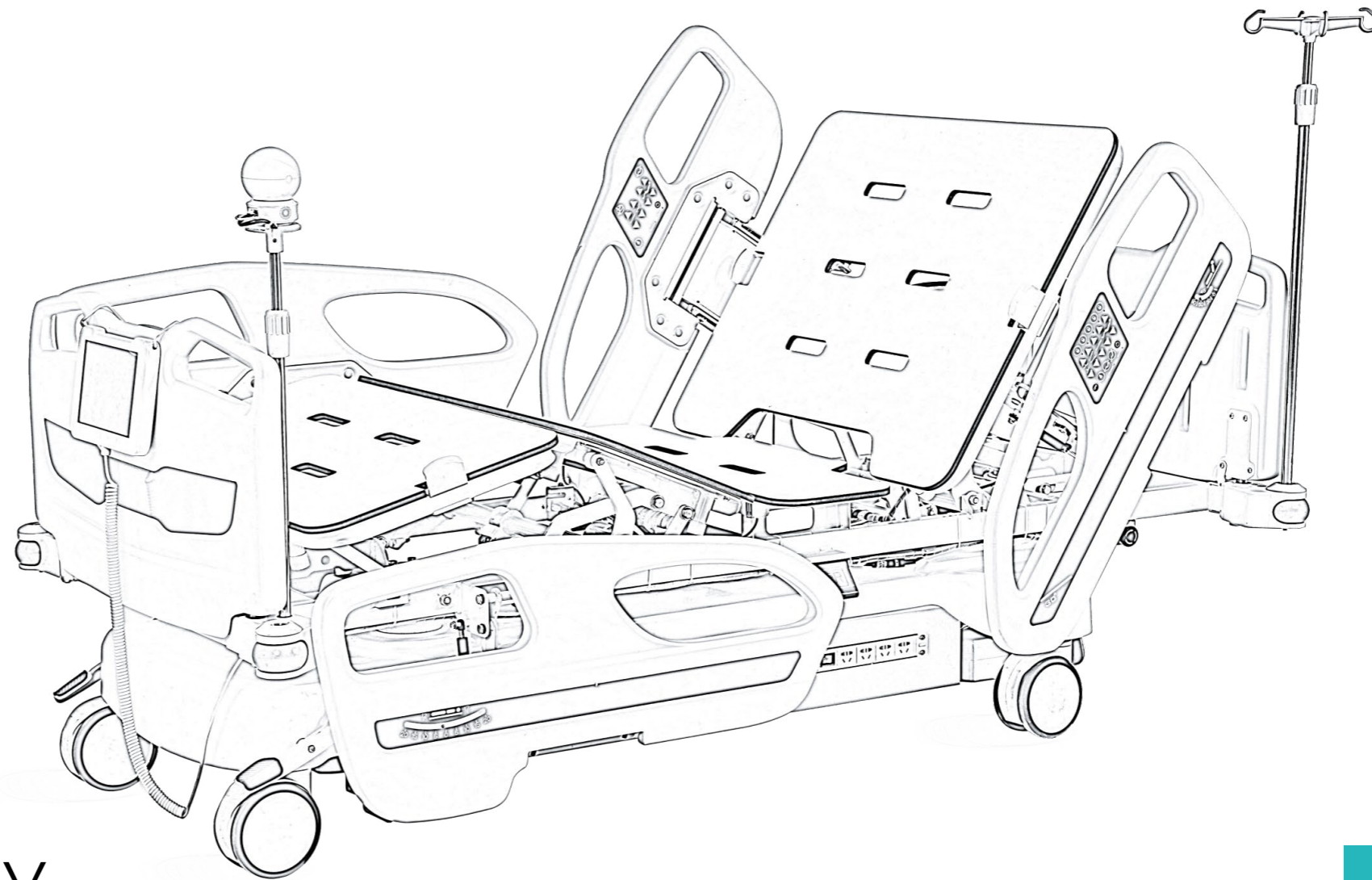
DESIGNED FOR THE MOST DEMANDING SITUATIONS, A SOLUTION FOR EACH DEPARTMENT

The unique germ-free design meets hospitals' strict infection control requirement. Seamless PP head and foot board and platform ensure the instant and sufficient sterilization.

Environmental plastic can be sterilized in 100°C, tensile upto 30MPa.

11 Process epoxy painting, ASTM testing anti-bacterial, paint thickness 0.12mm, brightness 60°, paint can resist 50kg impact.

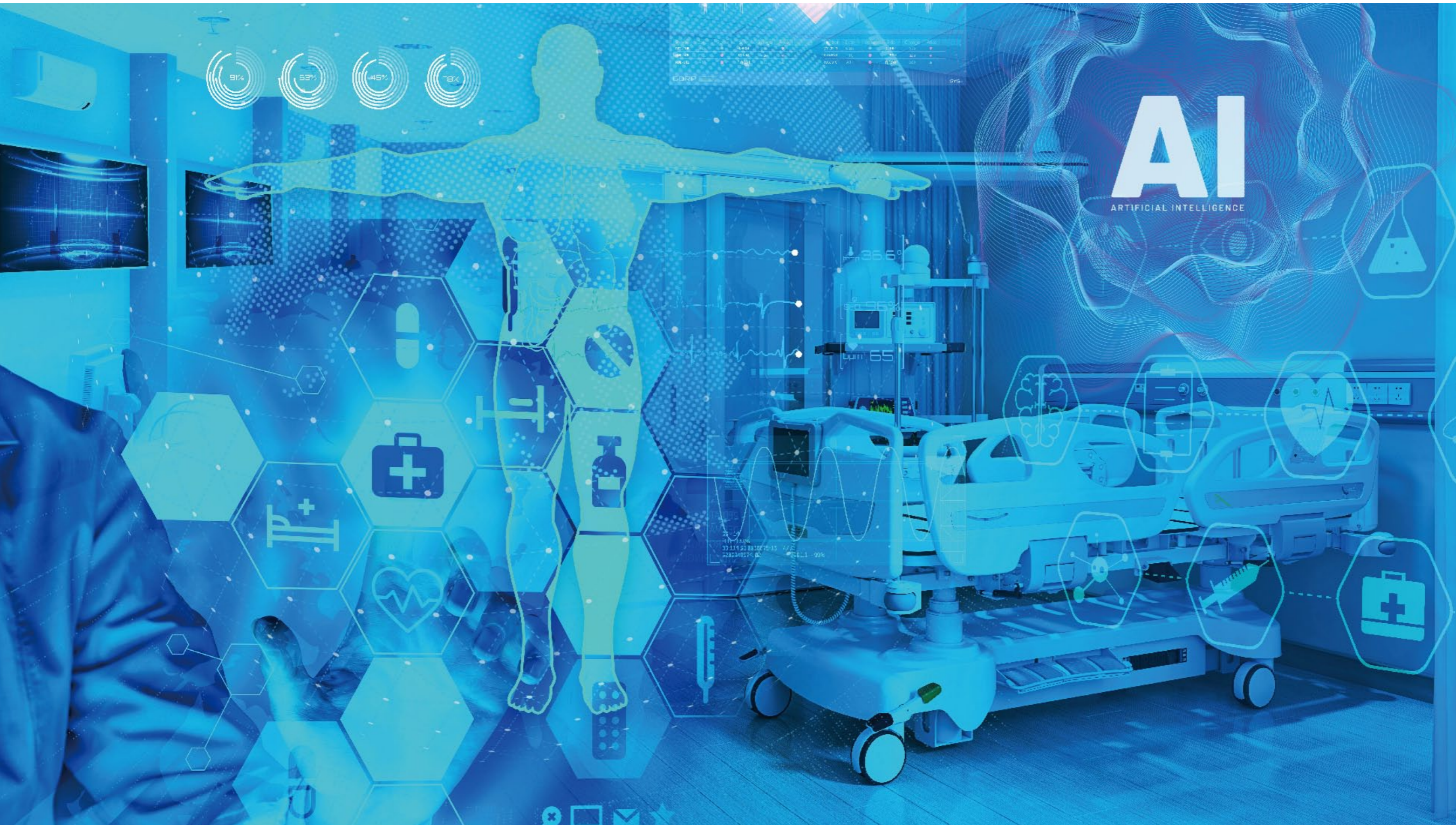
Panasonic Robotic ensure 360° full smooth welding.



AN EVOLUTIONARY LEAP THAT STARTS WITH PROFESSIONALS

“DESIGNED TO ASSIST
IN WORKING MORE
EFFICIENTLY”

Z7Z ICU SMART BED, HOW SMART IS IT?



In fact, the ICU Smart Bed is not a single product. It is a product based on the overall solution of ICU smart ward.

You will find that Modern ICU wards encompass many precise divisions, all of which are inseparable from the core function of monitoring.

Therefore, the initial positioning of our research and development is to create a multi-functional hospital bed that can connect all monitoring equipment and realize the integration and interconnection of intelligent systems.



Doctor-patient communication system

Rehabilitation guidance, follow-up, tracking, reminders, allowing patients to communicate with doctors through text, voice, and video anytime, anywhere, creating a mobile medical platform for in-depth doctor-patient communication.



Real-time vital sign monitoring

Monitor heart rate, blood pressure, blood oxygen, respiration, temperature, pulse, etc.



Remote Monitoring System

Real-time video monitoring and audio-video conversation.

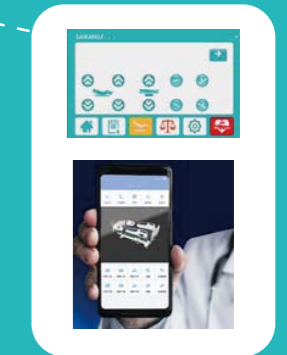


Vital Sign Monitoring
Patient 360 Monitoring
Infusion Monitoring
Video Monitoring



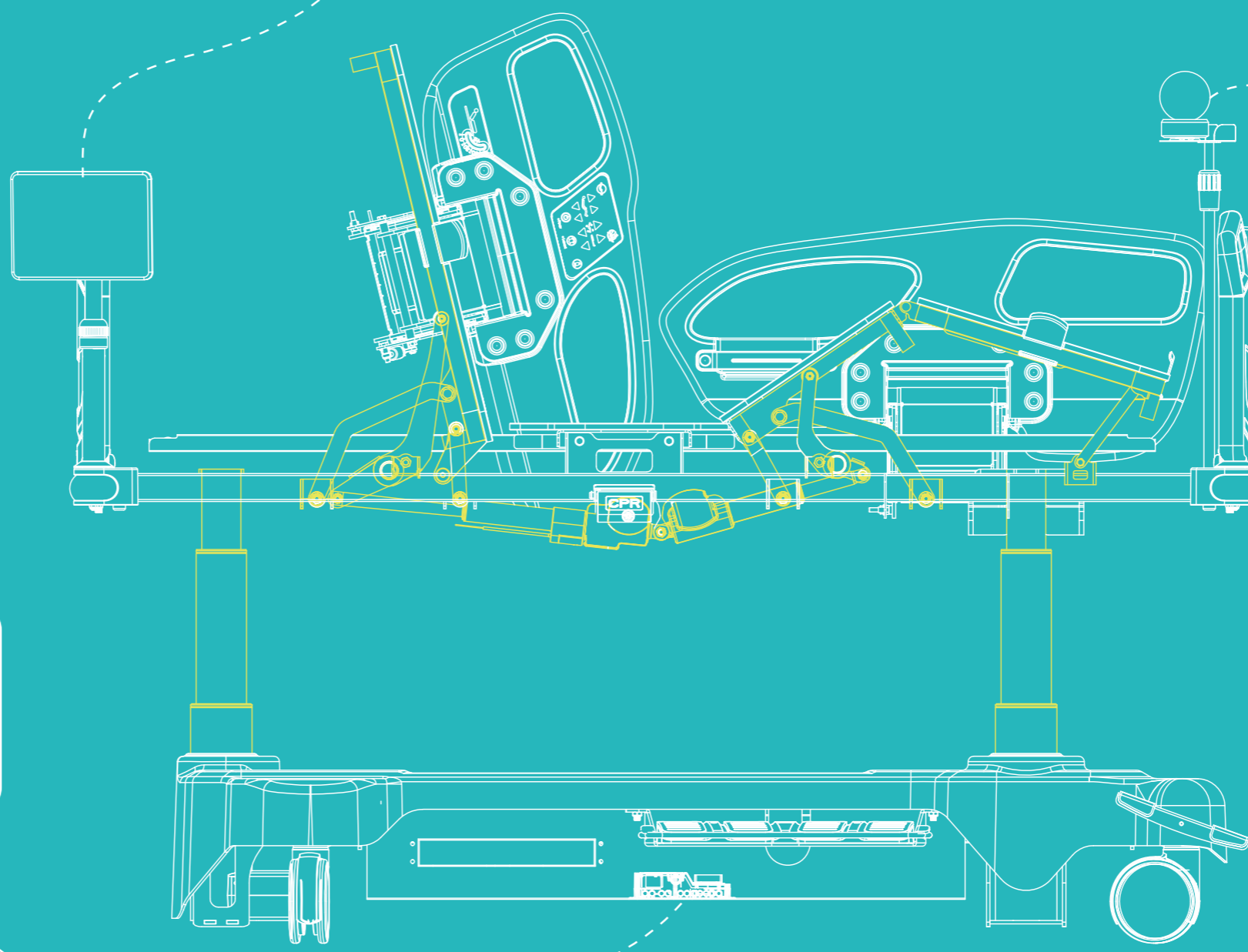
Equipped with Smart Hospital Bed System

Clinical data collection, screening, integration. Generate medical big data to assist decision-making.



Control system

10-inch LCD display

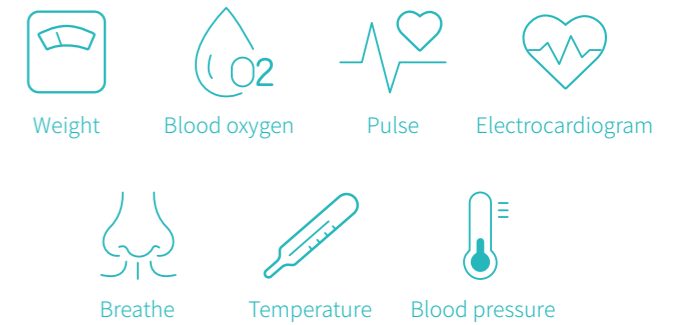
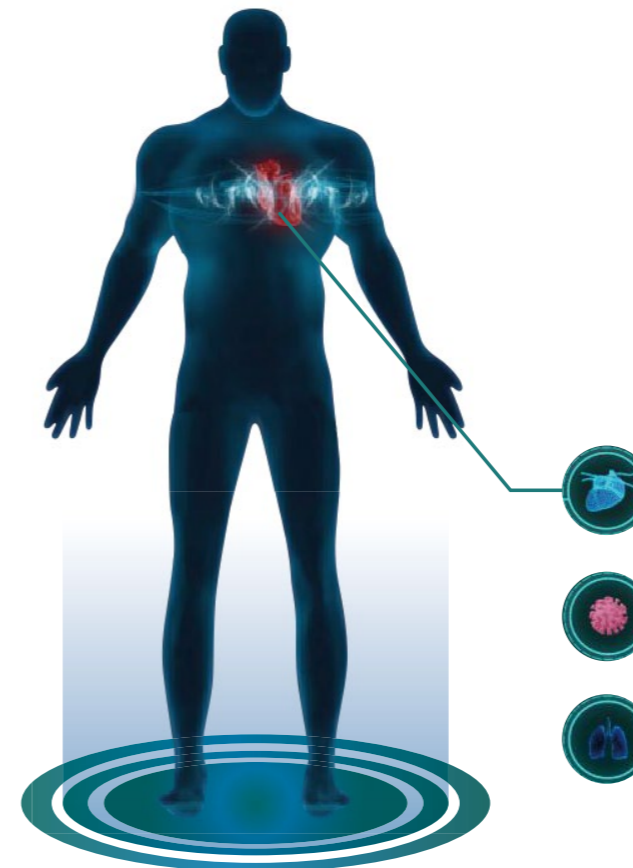


10-INCH LCD CONTROLLER AT THE FOOT END FOR VARIOUS BED POSITIONS.



The HWZ7z ICU Smart bed has updated the features of traditional electric hospital beds. The posture control of the bed can be controlled remotely through the electronic bedside screen system.

It also supports patients to send call requests, and their family members can also conduct video visits. It also enables remote video consultation, allowing experts to communicate and diagnose patients in real time through video connection.



REAL-TIME VITAL SIGN MONITORING

At the same time, we have joined forces with brands such as Mindray and Comen to support the connection of monitors, ventilators, infusion pumps, defibrillators, anesthesia machines and other equipment to monitor patients' heart rate, respiratory rate, blood oxygen saturation, and blood pressure in real time, ECG, temperature, and 24-hour urine output monitoring, weighing and other functions.

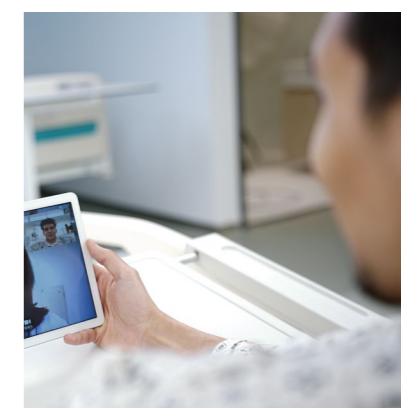
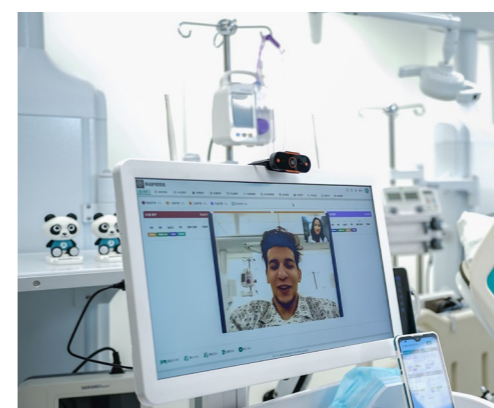
24-HOUR REMOTE SUPERVISION OF UNMANNED WARDS



Patient data that originally required multiple devices, multiple measurements, and multiple collections can be synchronized and transmitted to mobile PDA, nurse stations, doctor offices, etc. in real time with this Central Integrated Monitoring System. Once the patient's vital signs are abnormal, the system will automatically alarm to various terminals, thus truly enabling 24-hour remote supervision of unmanned wards, greatly improving the efficiency of medical care.



Currently, the ZTZ ICU smart bed has completed clinical trials in West China Hospital and has received good feedback. In the future, the ZTZ ICU smart bed will further complement and organically combine with the hospital's existing clinical data to continue to support big data scientific research.



REMOTE MONITORING SYSTEM

Real-time video monitoring and audio-video conversation.

In the ICU ward of a hospital, cameras can be used for remote monitoring, real-time video surveillance, and audio/video communication. This allows medical staff to monitor patients from a remote location, providing constant surveillance and ensuring that patients receive the care they need.

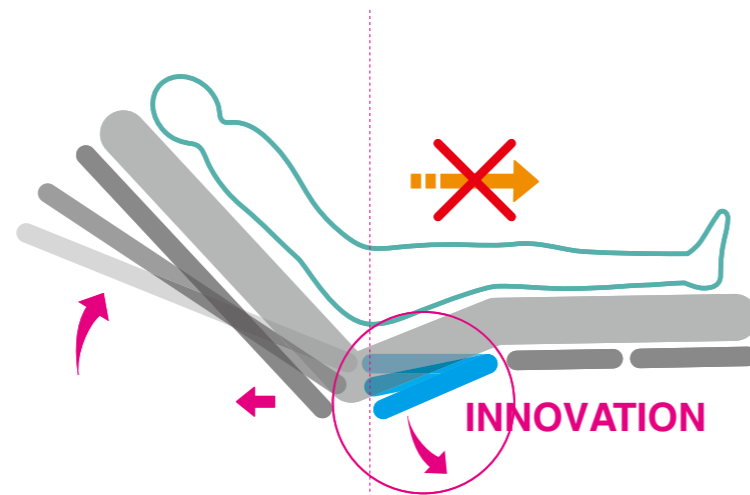
The cameras can be equipped with features such as high-definition video, night vision, and two-way audio communication, allowing medical staff to communicate with patients and family members in real-time.

This technology can help improve patient outcomes, reduce medical errors, and provide peace of mind for patients and their families.

The dual-function mattress retainer serves to not only prevent scratches on the bed frame's paint but also retrain the mattress to its place, and prevents mattress sliding.



Auto-Regression



DUAL RETRACTION PATENTED DESIGN INNOVATIVE 75+15 mm



Pressure ulcers, or bedsores, result from prolonged pressure and friction on skin and underlying tissues.

- The dual retraction feature in a medical bed extends and distributes pressure evenly, reducing pressure concentration on the pelvic area.

- This design enhances patient comfort and prevents pressure ulcer occurrence proactively.

- The patented feature is applied to the backrest and thigh rest, retracting them by 75mm and 15mm respectively.

- Retracting these components extends the bed surface in the pelvic area, alleviating pressure and shear forces, thus minimizing pressure ulcer risk.

- The innovative design prioritizes patient well-being and offers a proactive solution for pressure ulcer prevention.

SOLID YET LIGHT MATTRESS PLATFORM

Full-body X-ray translucent bed platform

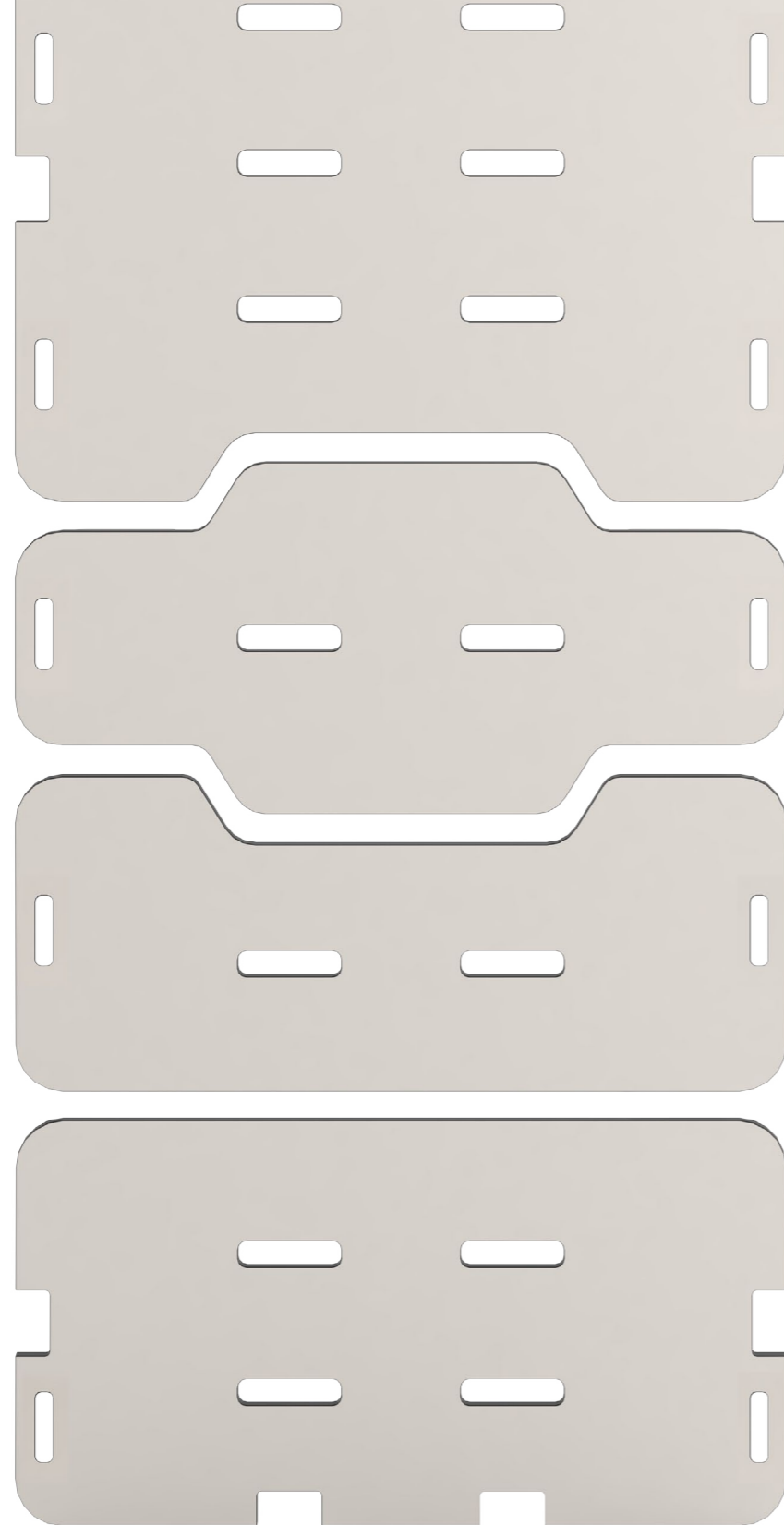
12mm thick phenolic resin bed platform for full-body X-ray functionality

Enlarge the seat area when back part is raised, providing more comforts for the patients.

Reduce the depression of the sponge at the seat panel.



Patient strap holes.



X-RAY EXAMINATION WITHOUT THE NEED TO MOVE THE PATIENT

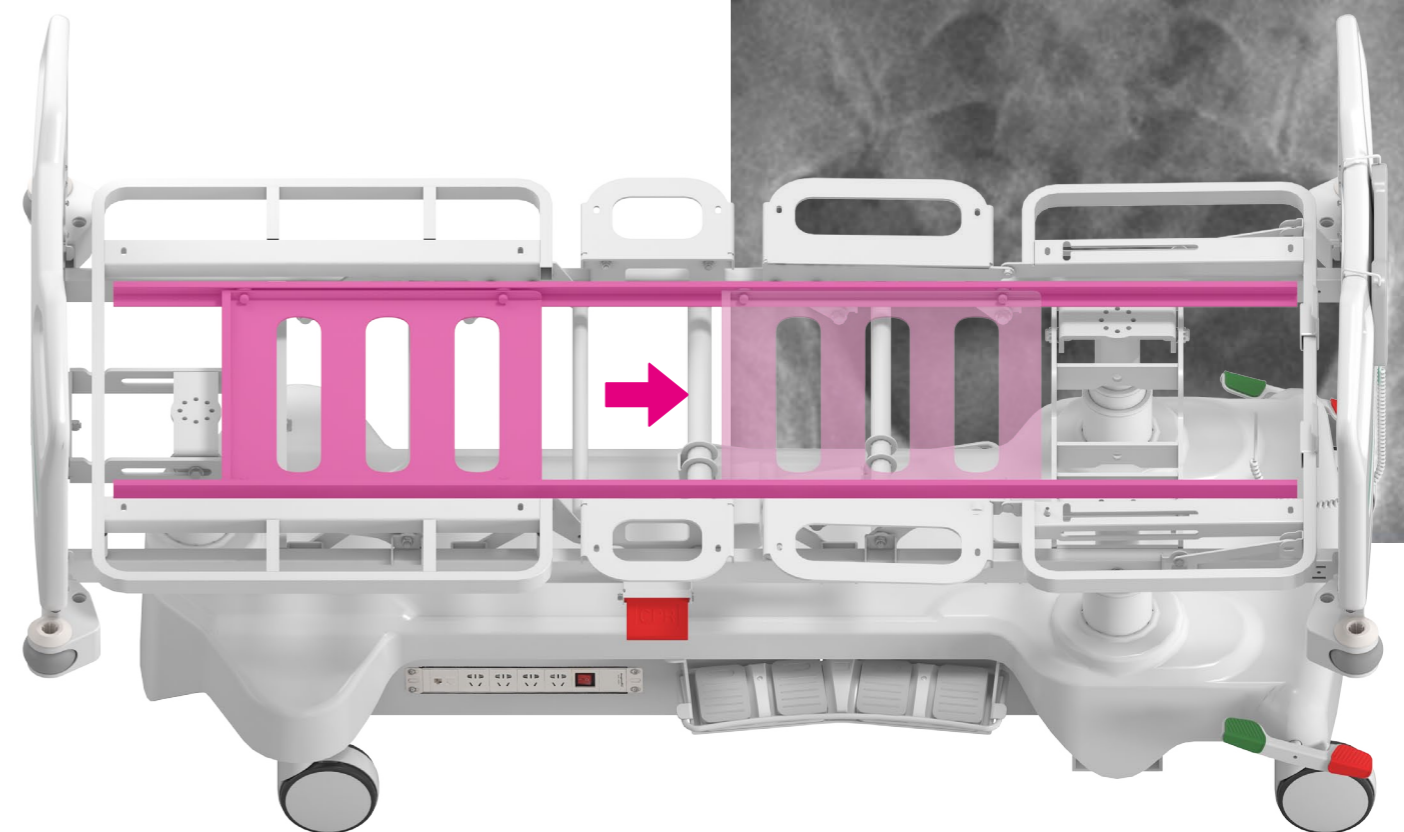
With 500*1800mm full-body X-ray translucence

Movable cassette holder size: 400*520mm

Wide area of radiotransparency.

It has an X-Ray cassette holder for full-body x-ray examinations, without moving the patient.

The X-ray tray holder fixed at the back section, easy for X-ray cassette film horizontally put out & put in, to avoid patient movement.



STREAMLINE THE WORKFLOW OF HEALTHCARE PROFESSIONALS



Back-rest



Bed height min.



Reverse Trendelenburg



Knee-rest



Bed height max.



Trendelenburg



Lateral tilt right



Lateral tilt left



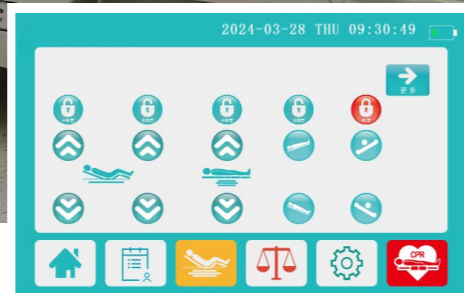
The CPR adjustment allows to bring the mattress platform immediately down to the horizontal.

CUSTOMISED CONTROL CONCEPTS

Nursing staff and patients require safe and convenient bed operation options. Our 'light' version control panel provides customized features both inside and outside the bed. By prioritizing essential functions, operation becomes significantly simpler. An easily accessible handset with ergonomic buttons is also provided as an alternative.

RAIL LOCK INDICATOR

Patient safety and protection are vital. Effective prevention can avoid fall injuries. When one rail is lowered, the bed's turning function locks to prevent turning, ensuring patient safety from falls due to unique side rail safety measures.



Easy operation using the control panel "light"

Staff and patients benefit from the tailor-made convenience and care functions that are available on either side of the "light"-version control panel. The panel can be integrated in the split safety sides if required.



Glasses holder



Angle indicator



Backrest 30° indicator line



Backrest angle display at 30° and 45°

Just one-hand operation required to effortlessly release and lower the split safety siderail.

All it takes for the patient to get in and out of bed unhindered is to lower one safety siderail element in the centre of the bed.



Easy bed adjustment with the "control panel light" version

The "control panel light" version is always within easy reach of patients. The straightforward adjustment options are easy to understand even for people with cognitive impairment.

The "light"-version control panel is always at eye level for the patient.



PP BED ENDS WITH SAFE LOCK

Head and foot tilt angle indicator

Integrated mechanical tilt angle indicator on headboard and footboard.



QUICK EMERGENCY ADJUSTMENTS

During resuscitation, it serves as a crucial aid. The shock position can be instantly activated using the easily accessible emergency lever at the head end or by using the control devices. Quickly removable headboards and footboards allow unimpeded access to the patient.



The orange emergency buttons on the outer side of the "light"-version control panel enable staff to act quickly without taking their eyes off the patient.



The CPR position can be set even faster using the mechanical emergency lever under the mattress base.



Effective use of bed space is crucial. The "integrated bumper wheels" design with IV pole holes and universal D series $\Phi 85\text{mm}$ bumper wheels provide effective collision protection during bed transport.



SS IV pole, bearing 15kg.



The headboard and footboard can be unlocked and removed without tools to allow improved access to the patient.



One button stop, prevent the maloperation.

LG Chem fresh PP material, plug in type.

FUNCTIONAL FEATURES



5" Double side castors, central locking. TPR tire no worn out after running 10 km.
 Anti-winding hard shell cover, united forming without bolts.
 Pass dynamic test: pass obstacles 40000 times, under the standard 200kg load of the whole bed.



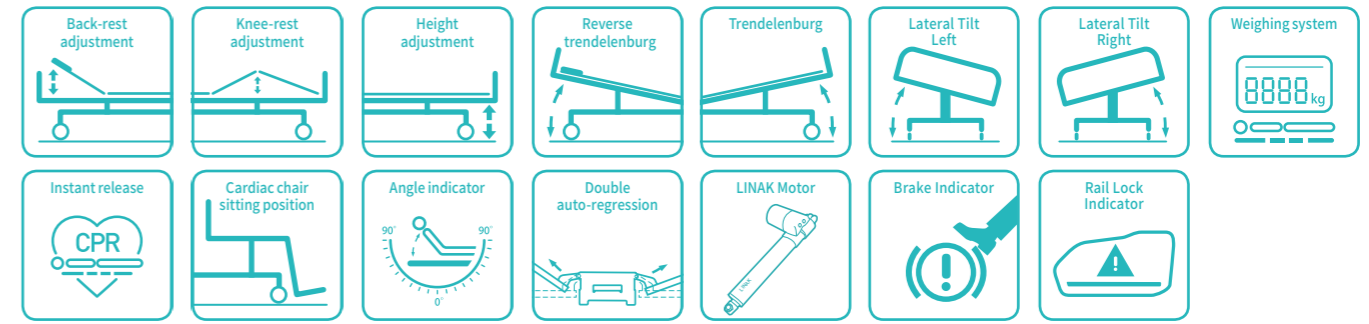
Each side has a set of foot pedals controlling bed height and tilts, with anti-mistake guard bar to prevent accidental activation.



One multi-outlet power strip (4 outlets) on each side, providing power for various ICU instruments.



Real-time monitoring of urine bag weight



PRODUCT INFORMATION

Model	HWZ7z
External size (LxW)	2127x1070 mm
Mattress platform	1925x900 mm
Safe working load	250 kg
Height adjustment	530-930 mm
Back-rest adjustment	0-75° (±10°)
Knee-rest adjustment	0-35° (±10°)
Reverse trendelenburg	0-15°
Trendelenburg	0-15°
Angle indicator	0-90°
Auto-regression	75+15 mm
Position line	30°
Linak motor	●
Telescopic column motor	●
6" Double side secure® castors, central locking	●
PP side rail with integrated LCD control panel	●
PP bed ends with safe lock	●
X-ray transparent phenolic resin bed platform	●
Patent angle indicator	●
Φ85mm wall bumper wheel	●
Trapeze socket	●
IV pole	●
IV pole prevision	●
Drainage hook	●
Central locking pedal	●
PP mattress retainer	●
Hook type LCD control panel at foot end	●
Emergency stop button	●
Night light	●
Manual CPR	●
Electric CPR	●
Weighing system	●
Camera monitoring	△
Vital signs monitoring	△
Advanced technology application	△



Note: ●-YES, ○-NO, △-Optional

As the circumstance of printing, the photos might have minor difference on color, tactile from real products.
As the update of design and improvement, parameters and outlook of products might change, thanks for understanding.

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General catalogue