

Endless love  
To Guard The New Life Safe



German Reddot Award Winner

**CONFIGURATION TABLE** ( ✓ Represents for standard function, ▲ Represents optional function. )

Infant incubator module			
Controller	12.1-inch TFT color LCD touch screen	Panel damping system	✓
Temperature servo control	Air mode, baby mode kangaroo mode	Automatic adjustment of screen brightness	✓
Humidity concentration control function	✓	Ambient temperature and humidity monitoring function	✓
Skin temperature sensor	✓	Weighing system	▲
>37°C temperature set function	✓	The tilting angle of the bassinets display/adjustment function, one-key leveling function	▲ Equipped with weighing system
Electric tilting system	✓	Camera function	▲
Vertical height adjustment stand	✓	External observation lamp	▲
Oxygen concentration control function	▲	Temperature overshoot	≤ 1.0°C
Special monitoring module for newborns			
SpO <sub>2</sub> monitoring	▲	Hemoglobin monitoring	▲
ECG monitoring	▲	CO <sub>2</sub> monitoring	▲
NIBP monitoring	▲	Apnea wake-up	▲
Power voltage	AC110-120V, 50/60Hz or AC220-230V, 50/60Hz, 1000VA		
Failure alarm	Power failure alarm, fan motor alarm, sensor alarm, deviation alarm, over-temperature alarm, water shortage alarm, system alarm, SpO <sub>2</sub> alarm, ECG alarm, RESP alarm, NIBP alarm, CO <sub>2</sub> alarm, etc.		
Product dimension	L1500mm× W800mm× H2000-2250mm		
Product weight	270kg		

# YP-2500B

## Infant Incubator



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Specifications are changed without notice for performance improvement. Printed date: Apr 2022 Version No.: 1



## The World's first "rooming in" incubator.

The health care from "four-leaf clover" focuses on the blooming little life with heart. It provides a high-quality clinical care environment and makes the doctor-patient relationship more intimate!



# 01. INFANT INCUBATOR MODULE

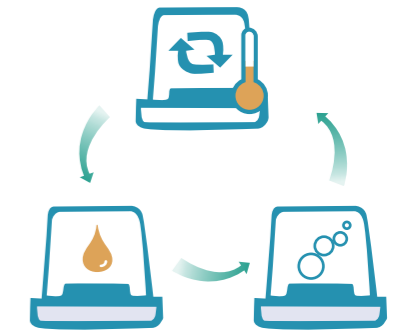
## LIFE CARE WITH LOVE, STARTING FROM THE NEWBORNS

### 01 Upgraded core algorithm and high-level simulation of maternal incubation environment

#### Comprehensive hardware and software configuration

Expand the core controller, improve the computing power, and enhance the adaptability. In the future, more human-computer interaction functions can be expanded to realize multi-task synchronous operation.

Equipped with an embedded smart control system, multiple CPUs are used together to interact and correct monitoring information in a timely manner to achieve precise control of temperature, humidity, and oxygen concentration, creating a stable and suitable incubation environment for newborns.

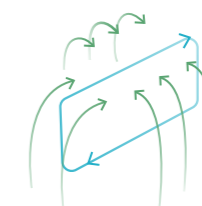
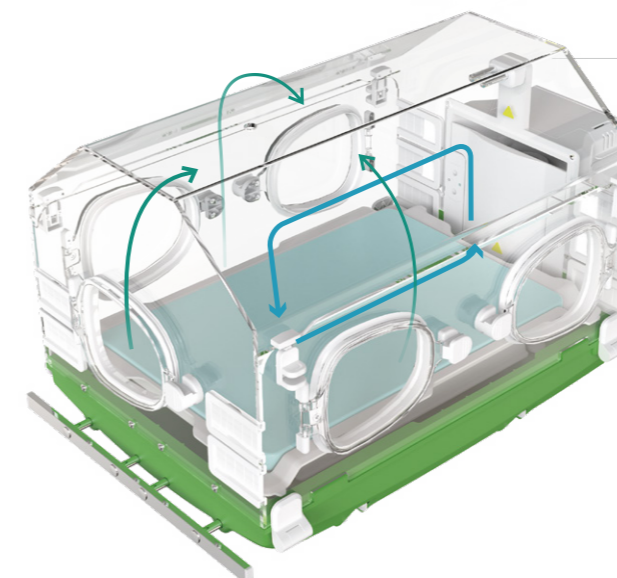
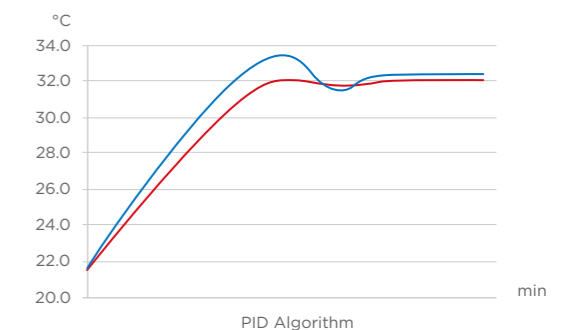


#### Stable temperature control

- The updated PID core algorithm makes the temperature fluctuation in the incubator more stable.

Before the core algorithm is upgraded

After the core algorithm is upgraded



- The scientific design of 270° warm air inhalation mode creates an advanced air circulation system to minimize heat loss during the nursing process.

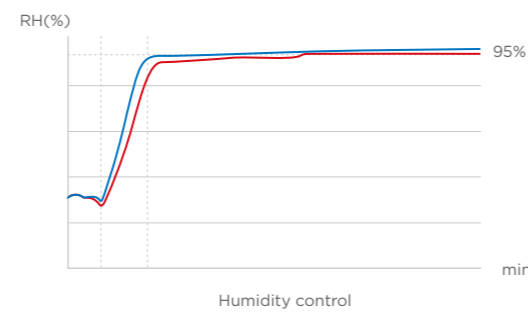


✿ Ideal tank self-disinfecting mode

- 7-channel temperature sensor monitoring: Through the monitoring of ambient temperature, heater temperature, dual-channel air temperature and three-channel skin temperature, the heating system can rise the temperature and maintain it rapidly.

- Can be equipped with an external humidification water bag provided by the hospital to reduce contact with external air, and high-temperature steam humidification is used to inhibit the bacterial growth and greatly reduce the risk of infection.

The humidification water tank made of Teflon material, combined with the self-cleaning and self-disinfection mode, saves more maintenance costs, and has superior non-stick feature and high temperature resistance, effectively extending the service life.



- Humidity sensor collects effective data in real time, quickly reaching 95% humidification effect.

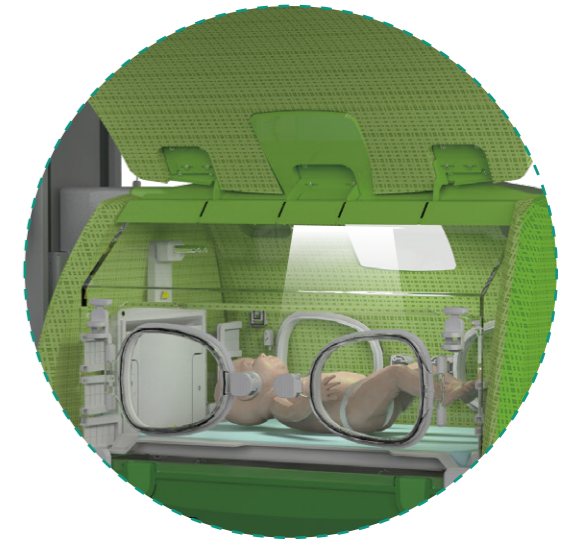
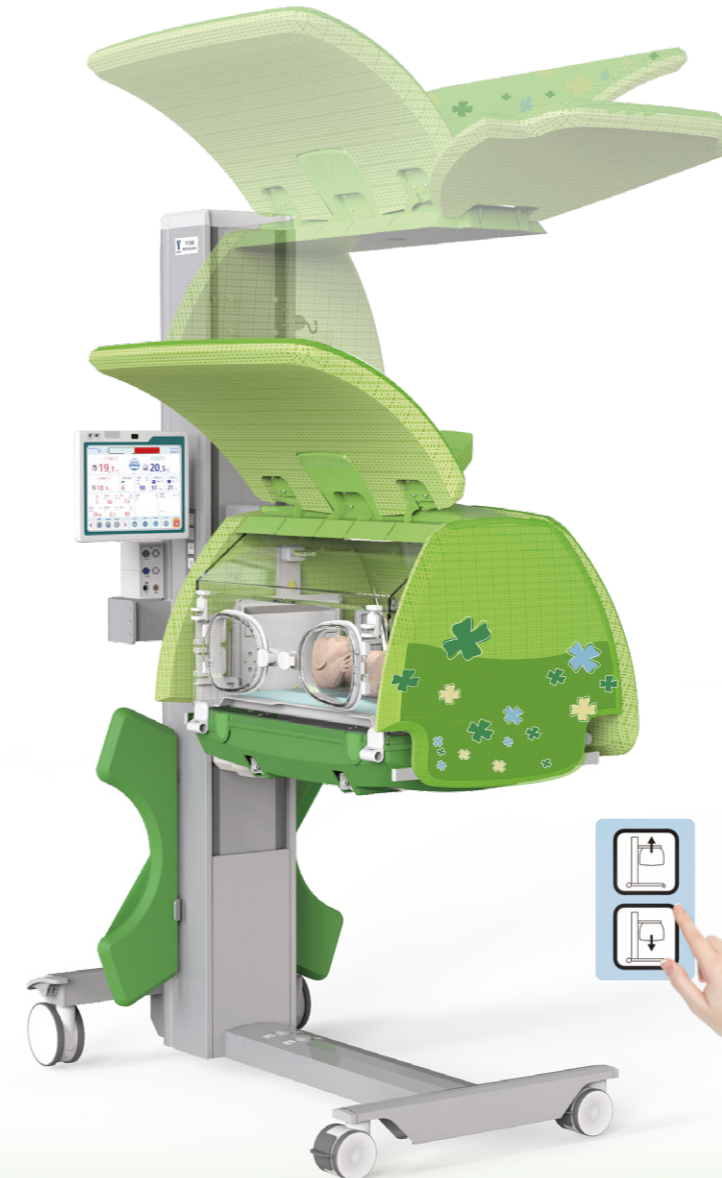
David YP-2500B      Other brands

✿ Accurate servo oxygen supply Optional

- Servo oxygen supply can be calibrated with single click (21% or 100%), and the oxygen concentration can be quickly increased to the set value.



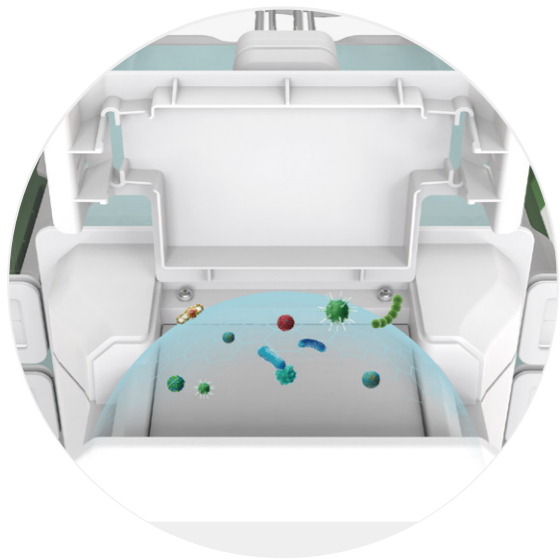
- ✿ Using brushless DC motor, the air duct structure layout is more reasonable, effectively reducing the noise in the incubator and providing a comfortable treatment environment.



- ✿ The self-contained shading hood cover, made to PVC foam material, isolates environmental noise and creates a lightproof and quiet incubating space for infants.

Built-in observation lamp, the brightness is infinitely adjustable, convenient for medical staff to open the hood cover on the side for observation and nursing, reducing external stimulation.

The gas spring structure can be easily opened and closed, the height can be adjusted independently and freely, and it can rise quickly with one button to deal with emergency situations.

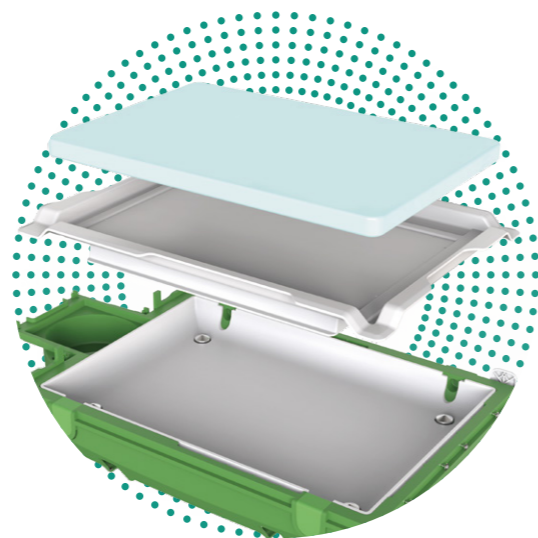


- The independent over-temperature protection system has a variety of sound-light alarms, providing multiple safety protection.

- Built-in filtering device can effectively filter more than 99% of dust, creating an antibacterial environment in the incubator, and facilitating disassembling and replacement.

- Built-in weighing system, easy to measure the weight of children and monitor the weight trend changes.

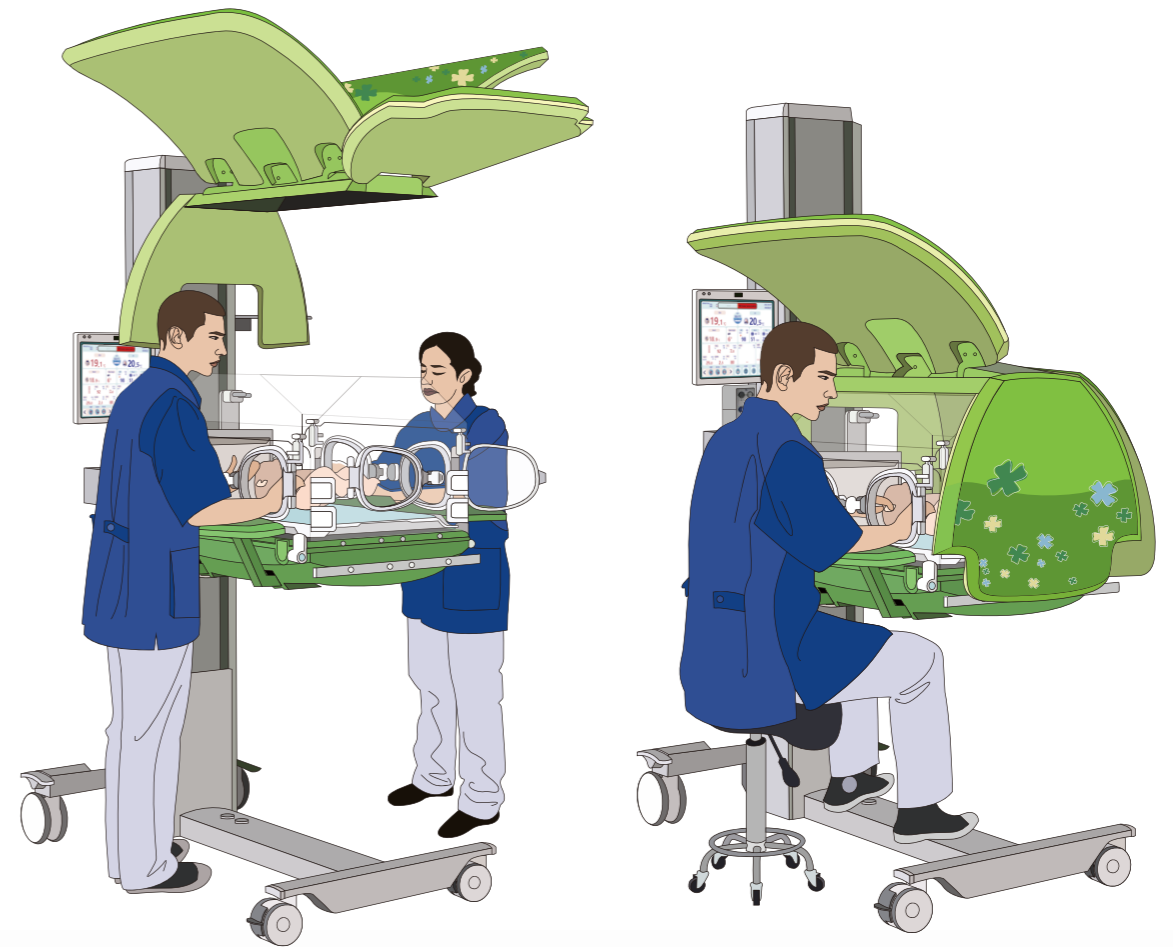
Optional



- Pressure-relief anti-decubitus mattress made of TPU materials is antibacterial, waterproof, soft and breathable, and protects the tender skin of newborns.

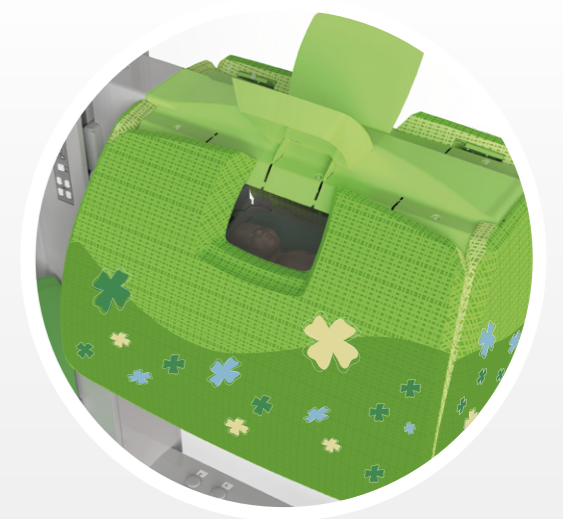
## HELP WITH LOVE STARTING FROM CARE

01 Human-machine interaction for efficiently simplifying clinical care procedures



- ✿ Detachable nursing hand frame, with ergonomic and thoughtful design, can meet any nursing posture, convenient for medical staff to carry out long-term nursing operations on infants, making it easier and more comfortable.

- ✿ The observation windows on both sides of the hood are designed to facilitate medical staff to check the treatment status of infants at any time and reduce external interference.



✿ LCD display



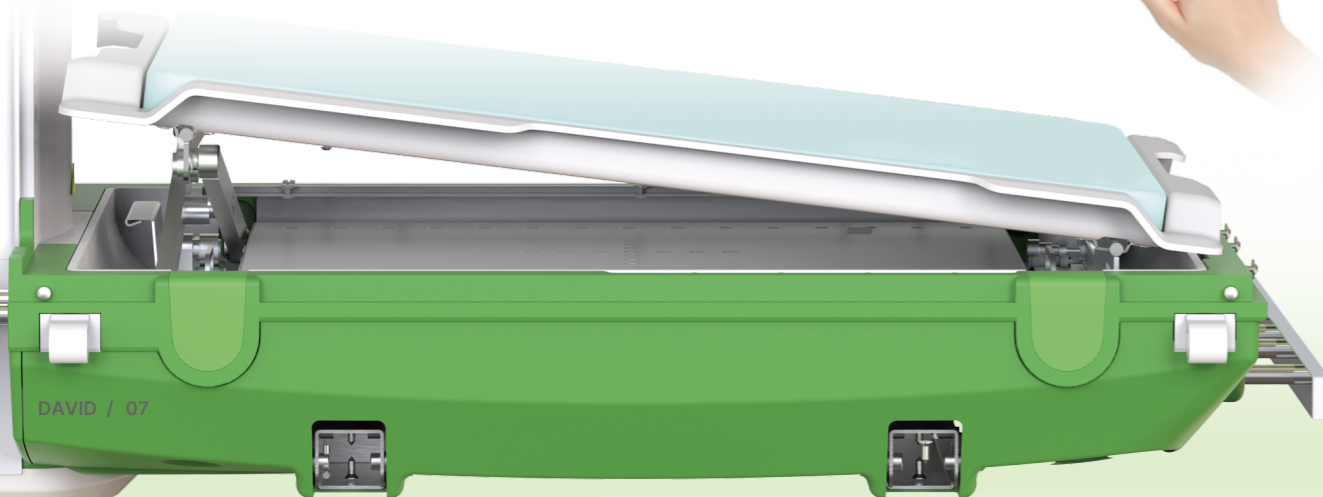
- LCD display: 12.1-inch TFT color LCD touch screen, night mode can be set to reduce the impact of light stimulation on newborns.

- Can be rotated left and right and turned up and down at multiple angles according to clinical needs, and is clearly visible from a long distance.

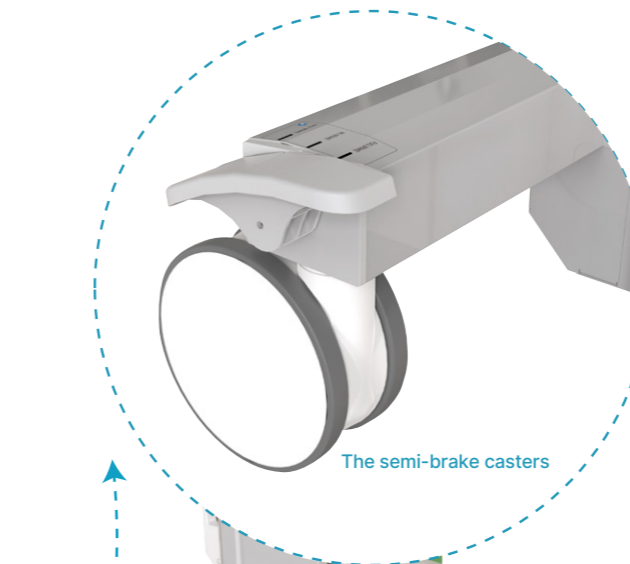
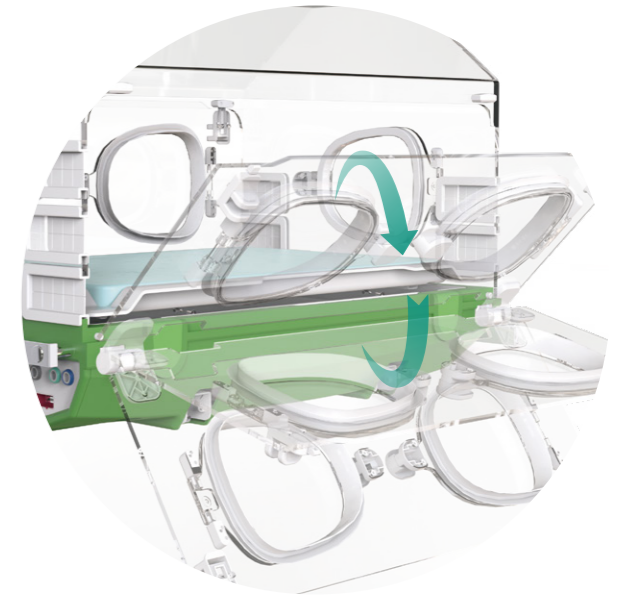


- One-button electric control bassinet can be adjusted smoothly and tilted at multiple angles.

Optional bassinet angel display function equipped with weighing system support the bassinet tilting angel simultaneously displayed by an LCD screen, supporting one-key leveling and more convenient for operation.

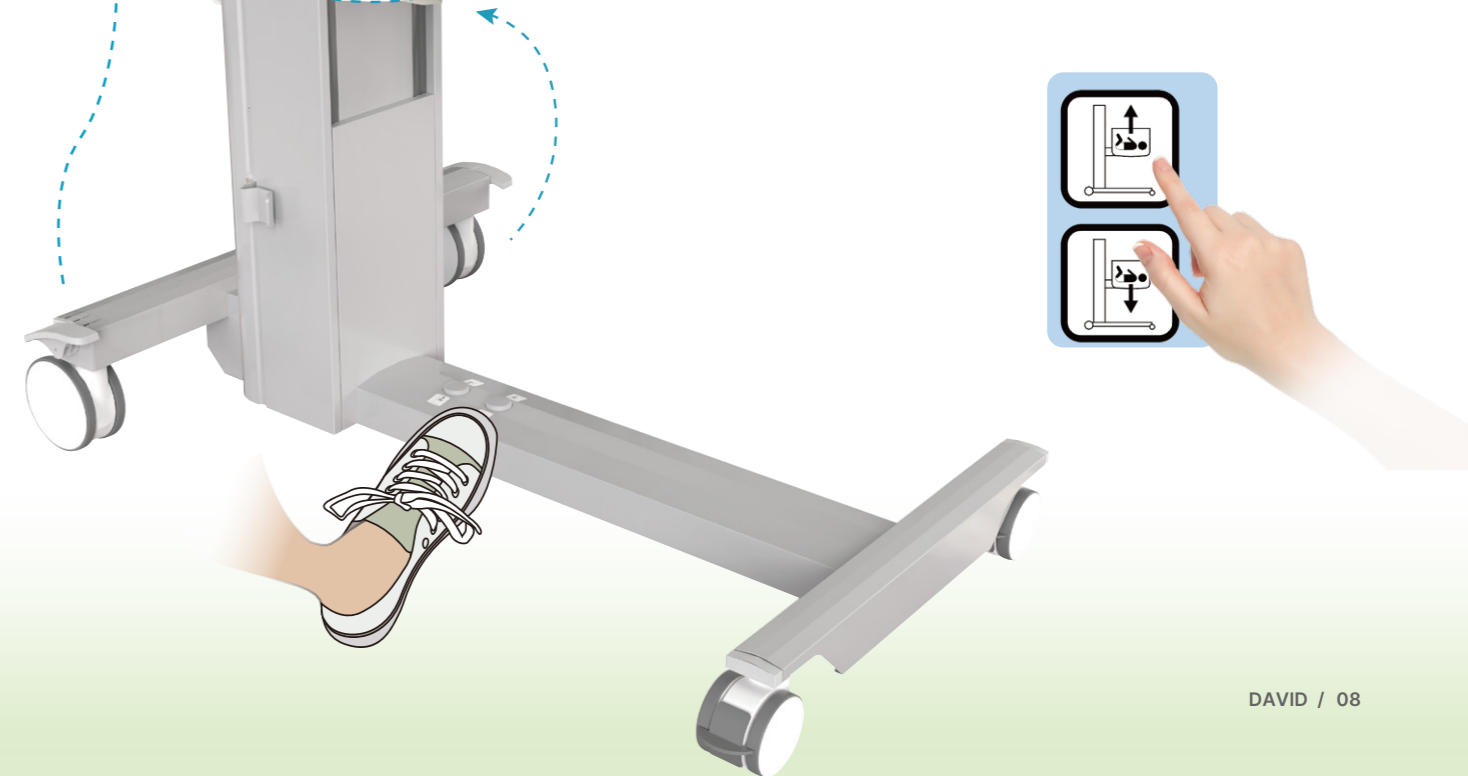


- The panel damping system ensures the door panel to fall down in silence without handling.



- ✿ The semi-brake locks the rear casters, allowing medical staff to move quickly over short distances.

The height of the whole machine can be adjusted with one key/foot pedal, which can meet the operation of medical staff of different heights.

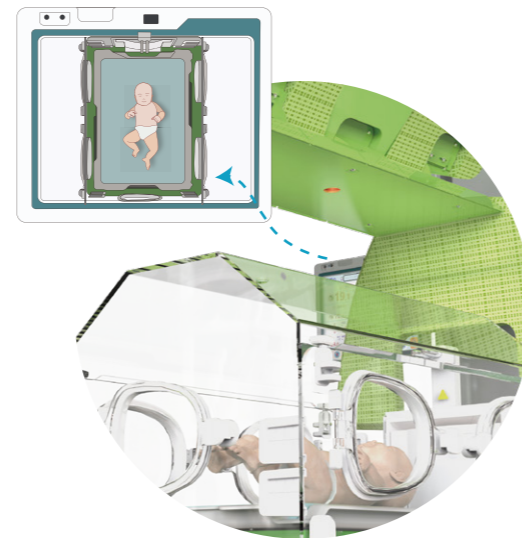


## EMPATHY WITH LOVE STARTING FROM FAMILY

### 01 Rooming in can establish parent-child interaction as soon as possible

- The first domestic kangaroo mode: Effectively maintain the temperature in the incubator, support kangaroo-style care, and facilitating the intellectual growth and physical development of premature infants and low birth weight infants.
- With the built-in camera, even when the hood cover is closed, the treatment of infants in the incubator can be monitored in real time through the LCD screen, and image shooting and video recording can be performed in a timely manner to facilitate clinical review.

Optional



- ✿ Unique suspended baby cabin design, with super high lift travel (600 mm) and one-button lift, can adapt to any height of sickbed.

Establishing "mother-infant skin contact" as soon as possible can greatly make closer the parent-child relationship, and promote breastfeeding while reducing the risk of cross-infection and the parental anxiety.

## 02. SPECIAL MONITORING MODULE FOR NEWBORN Optional

### DEVELOPED FOR THE NEWBORNS, STARTING FROM THE HEART



#### ■ Hemoglobin monitoring

The perfusion variation index (PVI) enables clinicians to assess the patient's infusion status, and non-invasively and continuously measures the hemoglobin SpMet in the blood to assess the total blood oxygen content SPOC.

#### ■ Masimo<sup>®</sup> Rainbow SpO<sub>2</sub> pulse oximetry monitoring system

- ① When combined with clinical evaluation, the sensitivity of screening for severe congenital heart disease (CCHD) can be increased to 93%.
- ② Can significantly reduce the incidence of severe retinopathy (ROP) in premature infants<sup>1</sup>.
- ③ Effectively eliminates exercise interference and improves the measurement performance under weak perfusion and body movement<sup>2</sup>.



#### ■ ECG monitoring

3-lead or 5-lead monitoring of neonatal ECG waveform and heart rate.



#### ■ RESP respiratory monitoring

Continuous monitoring of respiratory rate based on the thoracic impedance method.



#### ■ SunTechi<sup>®</sup> NIBP non-invasive blood pressure monitoring

It has double protection function of software and hardware.



#### ■ Masimo<sup>®</sup> CO<sub>2</sub> monitoring

Provides two measurement methods: mainstream and external side flow to monitor CO<sub>2</sub> accurately in a real-time manner.



#### ■ Apnea wake-up monitoring

It has the functions of close monitoring, real-time prompt and adopt early intervention for neonates at risk of apnea.

<sup>1</sup> <Castillo et al. Prevention of retinopathy of prematurity in preterm infants through changes in clinical practice and SpO<sub>2</sub> Technology.> Acta Paediatr.2011 Feb;100(2):188-92

<sup>2</sup> <Performance of Three New-Generation Pulse Oximeters during Motion and Low Perfusion in Volunteers.> Shah N., Ragaswamy H.B., Govindugari K., Estanol L. J Clin Anesth. 2012 Aug;24(5):385-91.