

# Endless love To Guard The New Life Safe



# YP-3100B Infant Incubator

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

Infant incubator module			
Controller	10.4-inch TFT color LCD touch screen	Electric tilting system	✓
Temperature servo control	air mode, baby mode, kangaroo mode	The tilting angle of the bassinet display/adjustment function, one-key leveling function	▲ Equipped with weighing system
Humidity concentration control function	✓	Panel damping system	▲
Oxygen concentration control function	✓	Weighing system	▲
Skin temperature sensor	✓	Camera function	▲
>37°C temperature set function	✓	External observation lamp	▲
Vertical height adjustment stand	✓	Ambient temperature and humidity monitoring function	▲
Hands-free alarm silence	✓	Temperature overshoot	< 1.0 C

Infant radiant warmer module			
Temperature servo control	Pre-warm mode, Manual mode, Baby mode	Warmer module	✓
Hands-free alarm silence	✓	APGAR, CPR	✓

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/50Hz,1300VA		
Failure alarm	Power failure alarm, fan motor alarm, sensor alarm, deviation alarm, over-temperature alarm, water shortage alarm, water tank position alarm, system alarm, SpO <sub>2</sub> Falarm, ECG alarm, RESP alarm, NIBP alarm, CO <sub>2</sub> alarm and so on.		
Product dimension	L1140mm× W660mm× H1515-2315 mm		
Product weight	160kg		



## Ningbo David Medical Device Co.,Ltd

Add: Bldg No. 5 Ningbo Smart Park, #98 Chuangyuan Rd, Hi-tech Zone, Ningbo, China

Tel: 0086-574-87800008 / 87800007

Fax: 0086-574-87803714

Web: www.nbdavid.com/en/ E-mail: sales@nbdavid.com

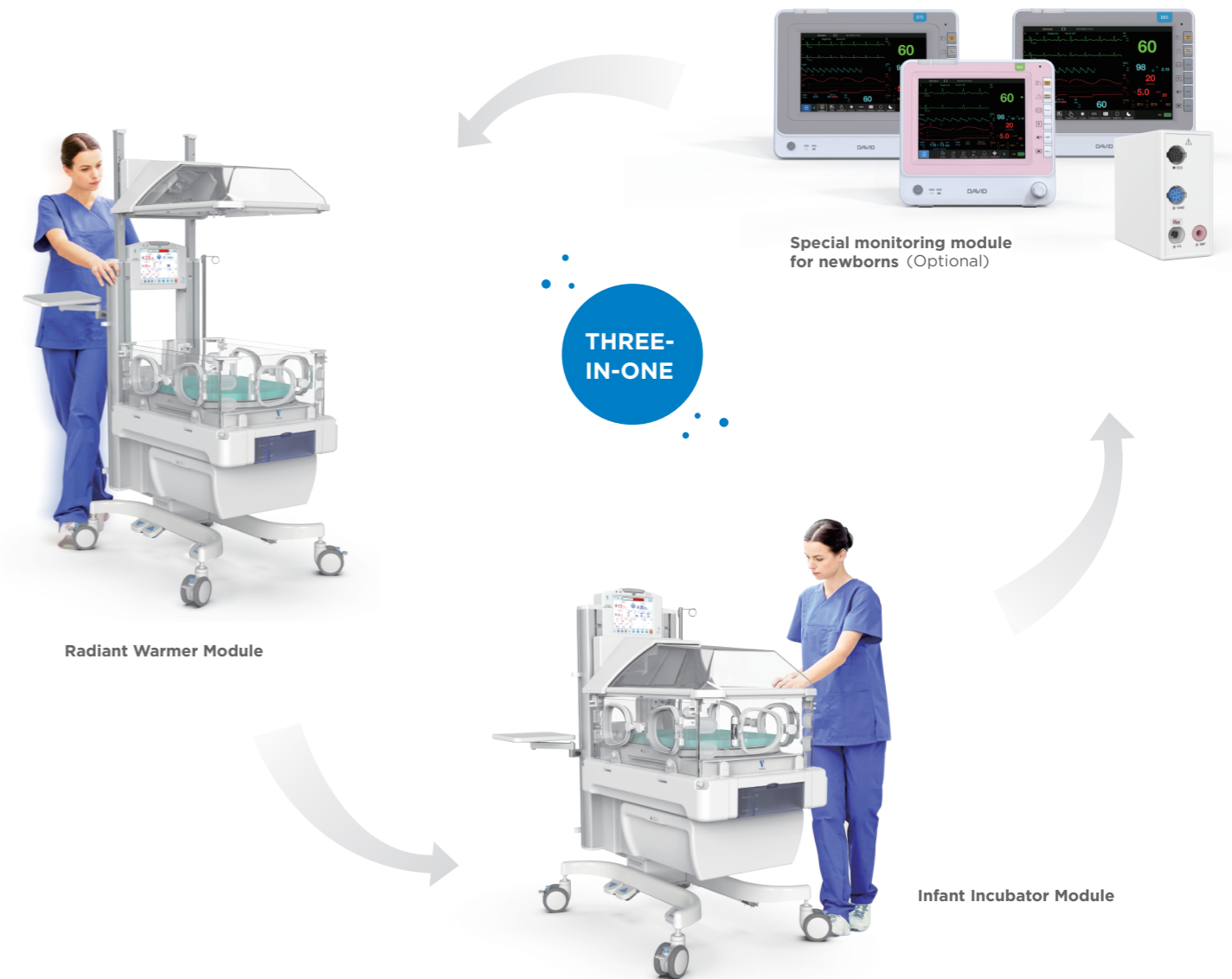
Specifications are changed without notice for performance improvement. Printed date: Mar 2022 Version No.: 1





# Protecting The Birth of Newborns and Flourishing NICU'S Journey.

The three-in-one product integrating **incubating + first aid + monitoring** gives new definition for NICU and meets various requirements with up and down motion.



### Fast switching and seamless care

Fast switching between infant incubator and radiant warmer modes by one click, providing a closed incubation environment for newborns, while also can be transformed into an open emergency space.



### Secure in-hospital transfer solution

Optional UPS power supply creates a one-stop transfer program of "Obstetrics—NICU—Operating Room", facilitating to maintain stable vital signs of newborns, improving efficiency of clinical practice.



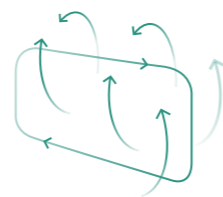
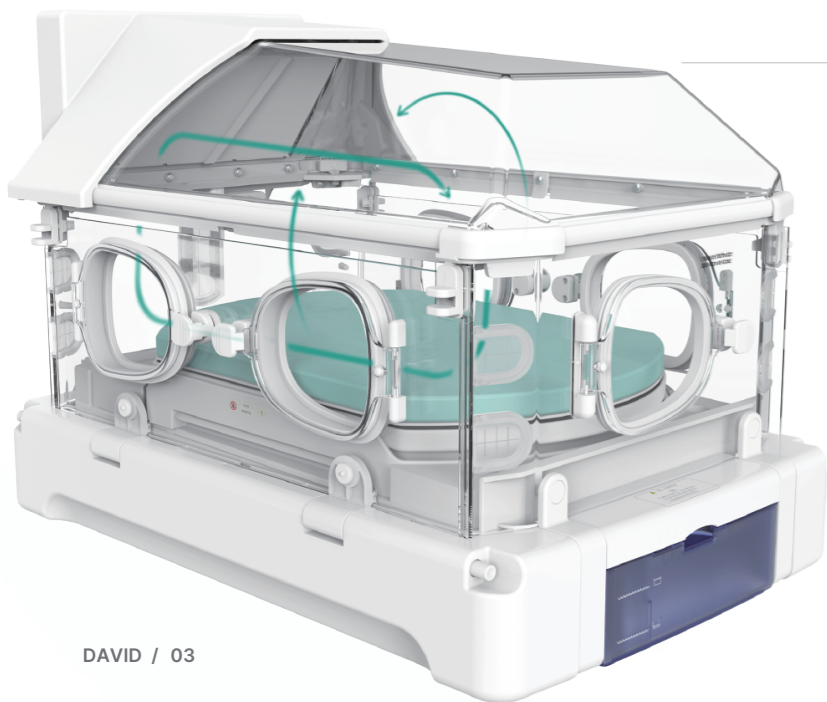
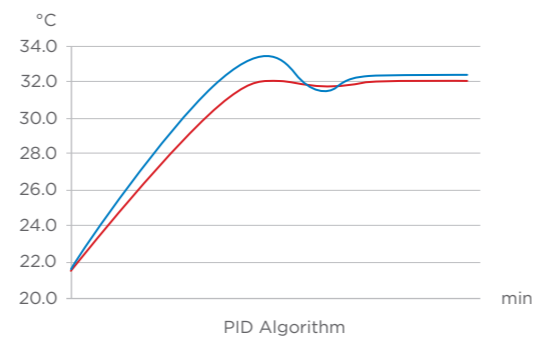
# 01. INFANT INCUBATOR MODULE

## LIFE CARE WITH LOVE, STARTING FROM THE NEWBORNS

### 01 Precise control and high-level simulation of maternal incubation environment

- Equipped with an embedded system and an Android display system, the updated PID core algorithm makes the temperature fluctuation in the incubator more stable.

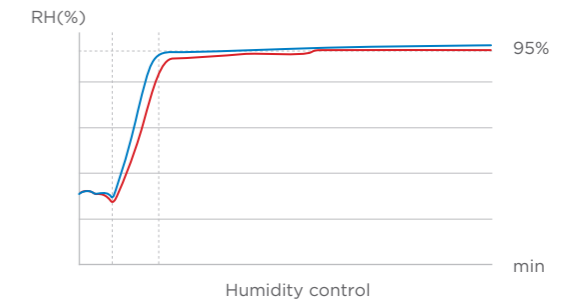
Before the core algorithm is upgraded      After the core algorithm is upgraded



- The scientific air circulation system with front-rear air outlet and left-right air return can form an automatic vertical air curtain when the door is opened, thereby minimizing heat loss.

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

David YP-3100B      Other brands



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

### 02 Safe operation, committed to create a bacteriostatic environment in the incubator



- The high-temperature steam humidification method is used to kill most of the common pathogenic bacteria in the water tank and greatly reduce the risk of infection.

The front transparent water tank is easy to observe the water level, and can be easily disassembled by hands of medical staff to clean and disinfect without dead ends.



System protection

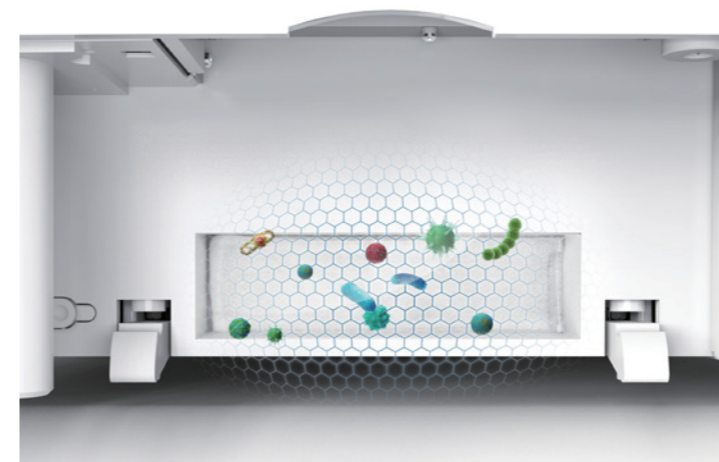


Hardware protection

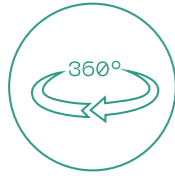


Mechanical protection

- Triple independent overheat protection, multi-channel sensor monitoring, and timely activation of sound-light alarm provide multiple safety protections.

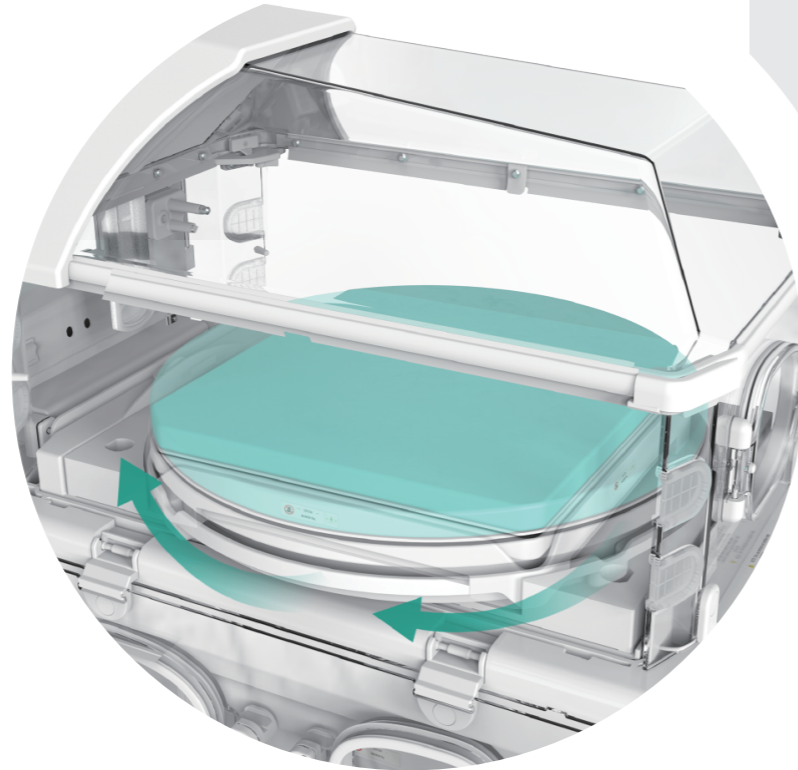


- Built-in filtering device can effectively filter more than 99% of dust, creating an antibacterial environment in the incubator, and facilitating disassemble and replacement.



- 360° bilateral rotating infant bed allows medical staff to observe and care for newborns in all directions, reducing external stimulation.

Pressure-relief waterproof mattress is made of TPU material, which is soft and breathable, thereby improving the comfort of newborns and protecting the integrity of the skin.

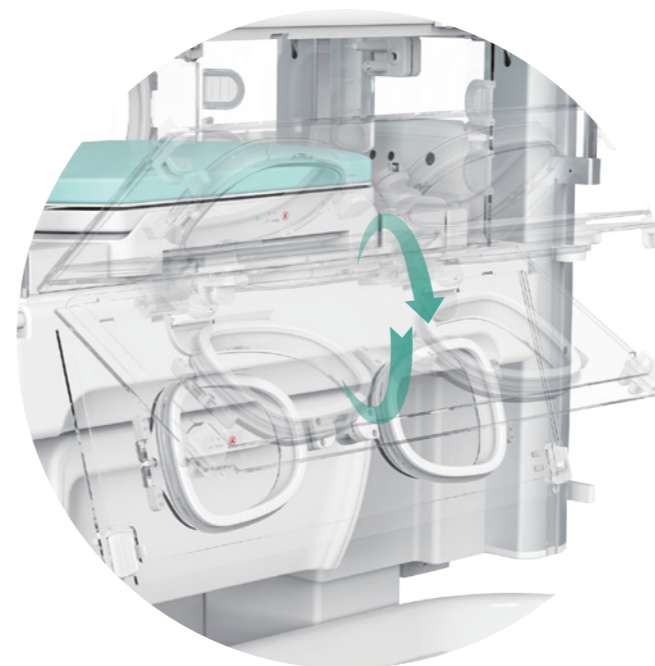


- One-button electric control bassinet can be adjusted smoothly and tilted at multiple angles and simultaneously displayed by an LCD screen, supporting one-key leveling and more convenient for operation.



- Frequency-variable DC motor is used to effectively reduce the noise inside the incubator and provide a comfortable therapeutic environment.

- The two-way pull-out X-ray cassette can be placed under the bassinet, eliminating the need to move the newborns.



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

Optional



# HELP WITH LOVE, STARTING FROM CARE

01 Human-machine interaction for efficiently simplifying clinical care procedures



- LCD display screen: 10.4 inch TFT color LCD touch screen, large characters clearly visible from a long distance, convenient for observation and operation of medical staff.

Night mode can be set to reduce the impact of light stimulation on newborns.

- The flat skin temperature sensor probe is less liable to shedding.



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



Optional



- The height of the whole machine can be adjusted from both sides to meet the operations of medical staff with different heights.

- The two-way pull-out storage drawer can accommodate a variety of small medical devices, and the external storage basket can properly accommodate cables and other accessories.

# EMPATHY WITH LOVE, STARTING FROM FAMILY



- The first domestic kangaroo mode: Effectively maintaining the temperature in the incubator, supporting kangaroo-style care, reducing parents' anxiety, and facilitating newborns' physical and mental development.

- Camera: capable of carrying out local imaging and video recording and convenient for clinical review.

Optional





# 02. RADIANT WARMER MODULE

PROTECTION WITH LOVE, START WITH FIRST AID



- Far-infrared heater made of alloy steel pipes is not easy to be broken when heated, and has a long service life.

More concentrated radiation area, ensuring mattress to be evenly heated, and preventing the surrounding nursing staff from feeling overheated.



APGAR score timing



CPR timing functions

- The APGAR score timing and CPR timing functions help medical staff to assess the vital signs of newborns in time.

- Hands-free alarm silence to terminate alarms by waving hands, maintains a clean and quiet nursing environment.



# 03. 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** Rainbow SpO<sub>2</sub> pulse oximetry monitoring system

- When combined with clinical evaluation, the sensitivity of screening for severe congenital heart disease (CCHD) can be increased to 93%.
- Can significantly reduce the incidence of severe retinopathy (ROP) in premature infants<sup>1</sup>.
- 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.



- SunTech** NIBP non-invasive blood pressure monitoring

It has double protection function of software and hardware.



- Masimo** 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.