

# Endless love To Guard The New Life Safe



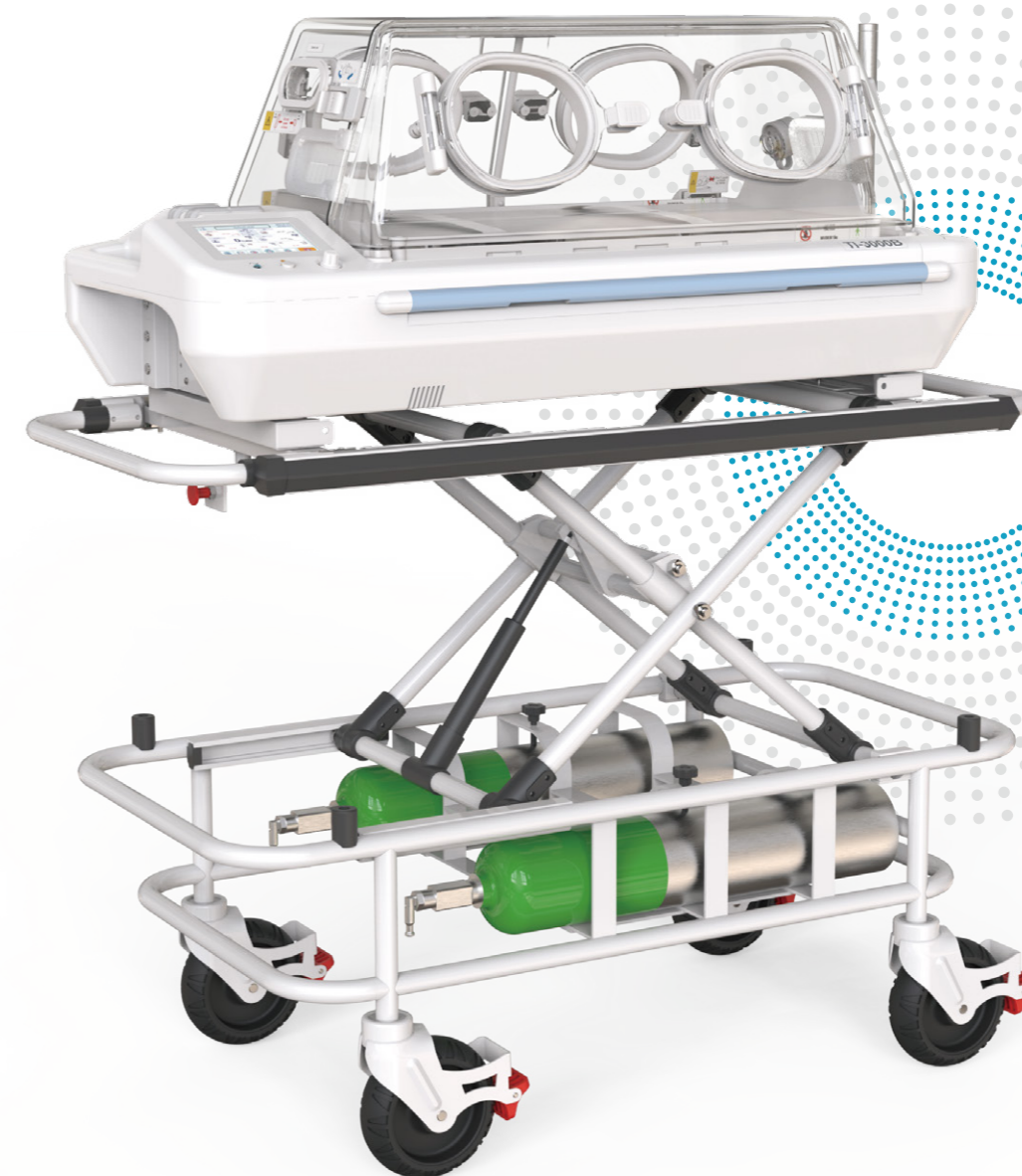
## CONFIGURATION TABLE ( ✓ Represents for standard function, ▲ Represents optional function. )

Infant incubator module			
Controller	5.6-inch color LCD touch screen + shuttle operation	Oxygen supply system	2 oxygen cylinders ✓ (Only for PT-II, JH-III)
Temperature servo control	Air mode ✓ Baby mode ✓	Panel damping system	✓
Illuminating lamp	✓	Oxygen concentration detection function	✓
Skin temperature sensor	✓	Oxygen concentration control function	▲
>37°C temperature set function	✓	Humidity concentration control function	▲
Battery working time	Single battery pack: ≥3hrs ✓ Dual battery pack: ≥6hrs ▲		
Power supply mode	Three power supply modes including storage batteries, alternating current (AC) and direct current (DC), capable of being connected to DC12V or DC24V vehicle power supply.		

Trolley module			
PT-II Standard trolley	Height adjustment, shock absorption, locking function ✓	Electric lifting function of trolley	JH-III ▲
Ambulance type trolley	JH-I/JH-II/JH-III ▲	DJ-II Trolley platform	JH-II/JH-III ▲
Special monitoring module for newborns			
SpO <sub>2</sub> monitoring	▲	Hemoglobin monitoring	▲
Power voltage	AC: AC110-120V/50/60Hz or AC220-230V/50Hz, 190VA DC: DC12V/14A or DC24V/7A		
Failure alarm	Power off alarm, sensor alarm, overheat alarm, deviation alarm, system error alarm, SpO <sub>2</sub> alarm, pulse upper limit alarm, pulse lower limit alarm, SpO <sub>2</sub> upper limit alarm, SpO <sub>2</sub> lower limit alarm and system prompt alarm		
Product dimension	Incubator: W1030mm×D472mm×H448mm Standard trolley: less than L1250mm×W550mm×H450-800 mm		
Product weight	Incubator: About 25kg (excluding accessories) Standard trolley: About 30kg (excluding oxygen cylinder)		

# TI-3000B

## Transport Incubator



### 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



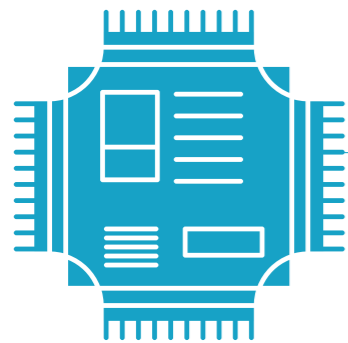
# Build a mobile NICU and construct a bridge of life for in-hospital and inter-hospital transport

The transport solution integrating multiple functions breaks through time and geographical constraints, and provides protection for premature infants and low birth weight infants.



## 01. INFANT INCUBATOR MODULE

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



### ■ Comprehensive hardware and software configuration

Applying ARM Cortex core controller to improve computing capability, expand memory, and realize multi-task synchronous operation.

Equipped with an intelligent embedded operating system in combination with multiple CPUs to exchange and correct monitoring information in time so as to achieve precise control of temperature, humidity, and oxygen concentration.

Strong adaptability, more human-computer interaction functions can be expanded in the future to meet more clinical treatment needs.

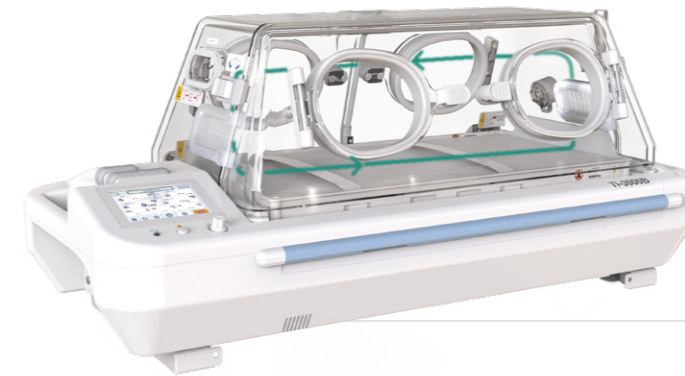
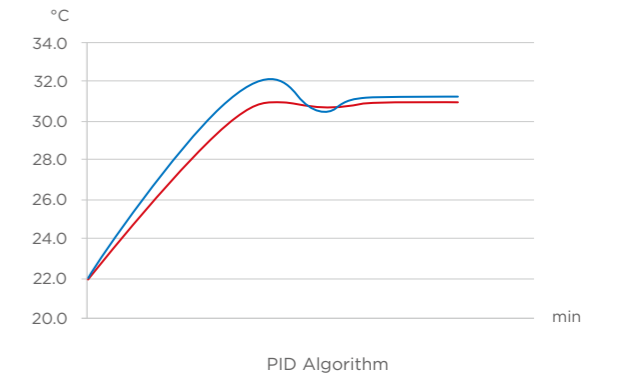


### ■ Stable temperature control

Updated PID core algorithm allows the temperature in the incubator to fluctuate more stable.

Before the core algorithm is upgraded

After the core algorithm is upgraded



■ Double wall hood can minimize the heat loss generated by in-hospital and inter-hospital transport.

### ■ Ideal humidification effect

Optional

Built-in humidity sensor achieves real-time monitoring and feedback of effective data, and accurate control of the humidity in the incubator.

The external humidification device generates water mist through ultrasonic high-frequency oscillation, thereby quickly achieving the ideal humidification effect.

### ■ Precise servo oxygen supply

Optional

Single-point calibration of oxygen concentration (21% or 100%), with industry's leading accuracy.

Optimization of structure, and quick improvement of oxygen concentration to the set value.



The external humidification device

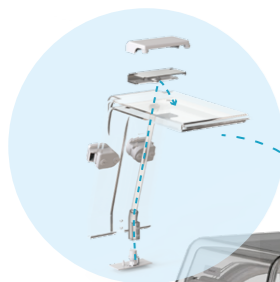


- Applying medical-grade large-capacity lithium battery technology, integrating a high-safety charge and discharge management system, monitoring battery parameters in real time, and achieving a 6-hour battery life.
- The uniquely designed 4 shock-absorbing silicone pads under the bassinet can effectively cope with the bumpy road during transfer, improve the stability and avoid secondary damage to the newborns.

■ Medical isolation pad for transport Optional

The bird's nest enclosing design is highly suitable for the body shape of critically ill infants, which can achieve reliable restraint and fixation, and effectively reduce the damage caused by physical movement during the transfer process (especially in harsh environments).

With disposable non-woven straps, it is light and no pressure, providing more comfortable and stable transfer measures; Easy to disassemble and replace, reducing bacterial infection caused by cross-use.



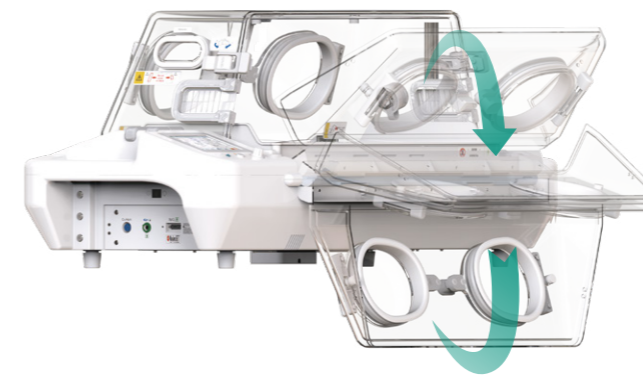
- The new lighting system of optical fibers using the reflector to refract, has low self-conducting heat, which is convenient for heat dissipation of whole machine and reduction of electric shock risk.
- The integrated design with the transparent hood allows medical staff to observe the health of the newborn in the incubator more clearly.
- Innovate design with internal aluminum alloy support structure is used to effectively reduce the weight of the incubator and enhance its convenience.



- The embedded operating system has strong adaptability and more expansible human-machine interaction functions to meet more clinical treatment needs.

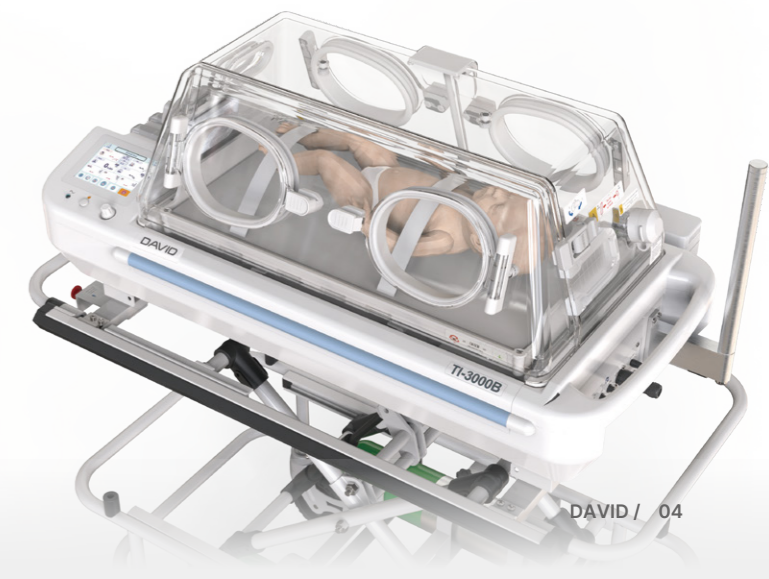
The 5.6-inch color LCD screen can be used in touch and shuttle modes for more convenient operation.

- Independent and lightweight bed design, built-in slide rails capable of being easily pushed and pulled, and the central fastener used for fixing the bed to prevent the bed from turning over even if pulled out to the maximum distance, thereby improving the safety during nursing.



- The panel damping system enables the front door to drop silently without holding by hands.

- Imported PMMA material is 360° transparent and visible, multiple large operation windows are convenient for all-round care for newborns by medical staff and reduce external stimulation.



## 02. TROLLEY MODULE

Easy transfer, move up and down smoothly

Standard trolley with stepless adjustment of height is convenient for medical staff to carry out in-hospital nursing, diagnosis, and transfer of critically ill newborns timely.



Optional ambulance type trolley is available for safe and efficient loading and unloading operations, helping medical staff to transfer easily.

With the trolley platform, it can place and fix a variety of medical devices and accessories such as ventilators, monitors, infusion pumps, T-piece resuscitators and medical air compressors to fully meet the monitoring and treatment needs of transport and improve space utilization.



JH-I Ambulance type trolley

JH-II Manual lifting +Trolley platform

JH-III Electric lifting +Trolley platform

Optional electric-lift type trolley with stepless adjustment of height, capable of achieving loading or unloading operations easily by a single person through holding on the lifting button.



Battery box



Electric lifting button



## 03. SPECIAL MONITORING MODULE FOR NEWBORNS

Optional

Masimo Rainbow SpO<sub>2</sub> pulse oximetry monitoring

Combined with clinical assessment, the screening sensitivity for critical congenital heart disease (CCHD) can be increased to 93%.

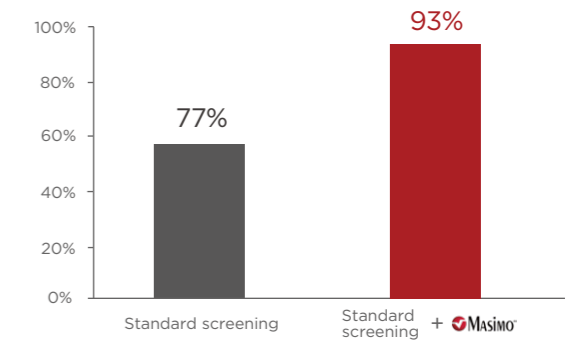
Significantly reduce the incidence of severe retinopathy of prematurity (ROP)<sup>1</sup>.

Effectively eliminate movement interference and improve the measurement performance under low perfusion and body movement states<sup>2</sup>.



SpO<sub>2</sub> Pulse oximetry module accessories

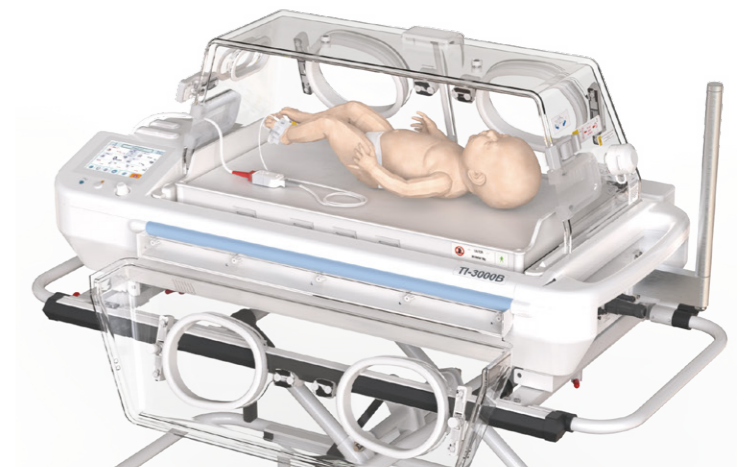
Independent Clinical Evaluation Versus Improved Screening Sensitivity of Critical Congenital Heart Disease (CCHD)



\*Zhao et al. Lancet.2014 Aug 30;384(9945):747-54.

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.



<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.

