

Endless Love
To Guard The New Life Safe



TI-2100A
Transport Incubator

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

Infant incubator module			
Controller	8.8-inch TFT color LCD touch screen	Illuminating lamp	✓
Temperature servo control	Air mode ✓ Baby mode ✓	Oxygen supply system	2 oxygen cylinders ▲
Skin temperature sensor	✓	Humidity concentration control function	▲
>37℃ temperature set function	✓	Oxygen concentration control function	▲
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.		
Battery working time	Standard:Nickel-metal hydride lead-acid battery: > 90mins; Optional: High performance polymer Lithium battery ≥6hrs		

Trolley module			
Standard trolley	Height adjustment, shock absorption, locking function ✓	Electric lifting function of trolley	JH-III ▲
Ambulance type trolley	JH-I/JH-II/JH-III ▲	Trolley platform	Only for JH-II/JH-III ▲
Special monitoring module for newborns			
SpO2 monitoring	▲	Hemoglobin monitoring	▲
Power voltage	AC: AC110-120, 50/60Hz or AC220-230V,50/60Hz, 400VA DC: DC12V/10A or DC24V/6A		
Failure alarm	Power failure, fan, sensor, deviation, over temperature, system, blood oxygen, pulse upper and lower limit, SpO2 upper and lower limit alarm, etc.		
Product dimension	L1330mm×W540mm× H950-1320 mm		
Product weight	95kg		



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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 breakthrough time and geographical constraints, and provides protection for premature infants and low birth weight infants.



01 . INFANT INCUBATOR MODULE

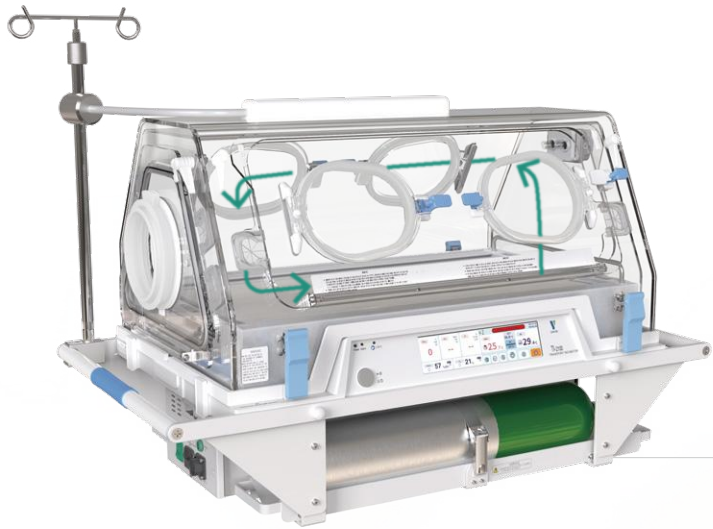
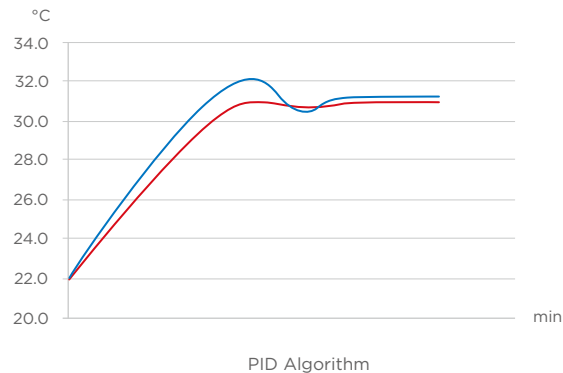
01 Precise control and high-level simulation of maternal incubation environment

Stable temperature control

Equipped with an intelligent embedded control 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



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

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





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



System protection



Hardware protection



Mechanical protection

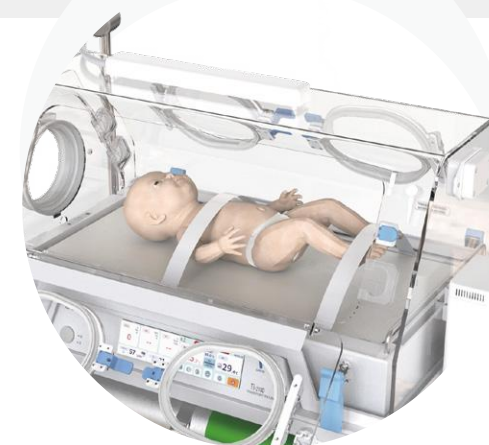
- Triple independent over-temperature protection, multi-channel sensor monitoring, and timely activation of audio & visual alarm provide multiple safety protections.



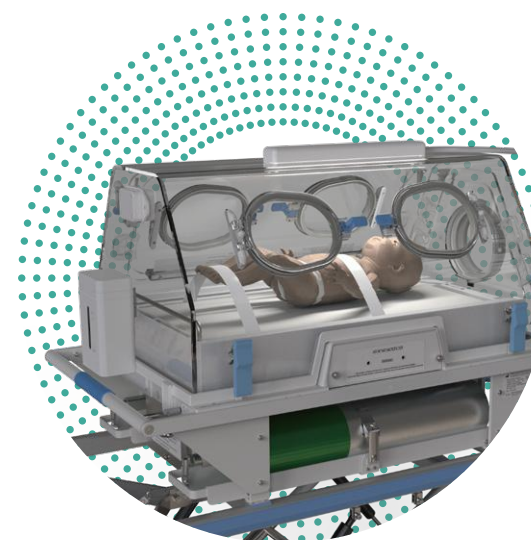
- Either Lithium-ion battery pack or Lead-acid battery pack can be selected. A single large-capacity lithium battery can last up to 6 hours, with three power supply modes: storage batteries, alternating current (AC) and direct current (DC), to fully meet the needs of various transport scenarios inside and outside the hospital.
- Brushless DC motor is used to effectively reduce the noise in the incubator and provide a comfortable therapeutic environment.



- The 32-bit Android system has strong adaptability and more expansible human-machine interaction functions to meet more clinical treatment needs.
- 8.8-inch TFT color LCD touch screen with fast switching between multiple languages, convenient for medical staff's observation and operation.



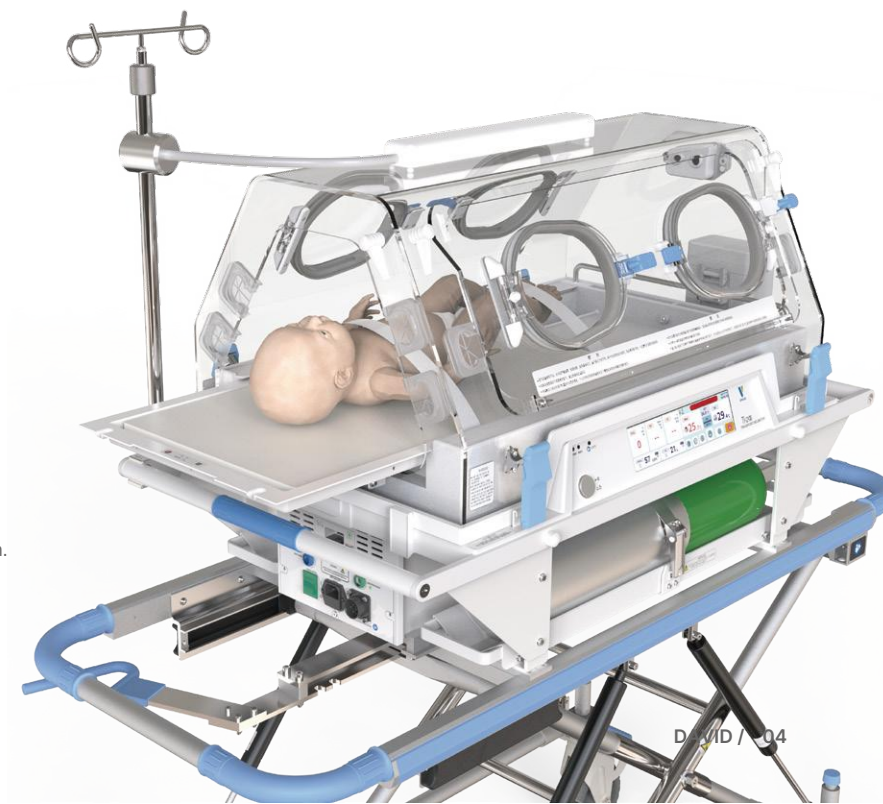
- The top illuminating lamp can provide even light covering the mattress, helping medical staff to observe and care even in a dark environment.



- Disposable non-woven straps, light and causing no pressure on the newborns, can firmly fix them and provide safe transport.

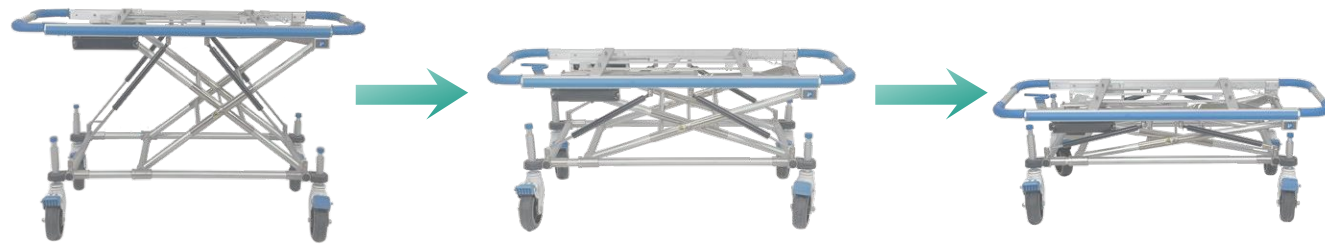
Easy to disassemble and replace, reduce bacterial infection caused by cross-use.

- The incubator is made of PMMA material, 360° transparent and visible with a side door, so that medical staff can observe and care for the newborns in an all-round way to reduce stimulation.



02. TROLLEY MODULE

- Standard normal trolley with three-gear adjustment of height, 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, with buffer pad to reduce the vibration caused to the infants during the lifting process and create a stable transport environment.



Battery box



Electric lifting button



03. SPECIAL MONITORING MODULE FOR NEWBORNS

Optional

- Masimo® Rainbow SpO₂ pulse oximetry monitoring

When combined with clinical assessment, the sensitivity of screening for critical congenital heart disease (CCHD) can be improved to 93%.

Significantly reduce the incidence of severe retinopathy of prematurity (ROP)¹.

Effectively eliminate movement interference and improve the measurement performance under low perfusion and body movement states².

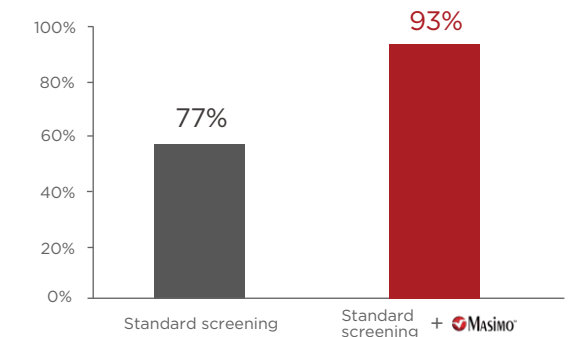


SpO₂ Pulse oximetry module accessories

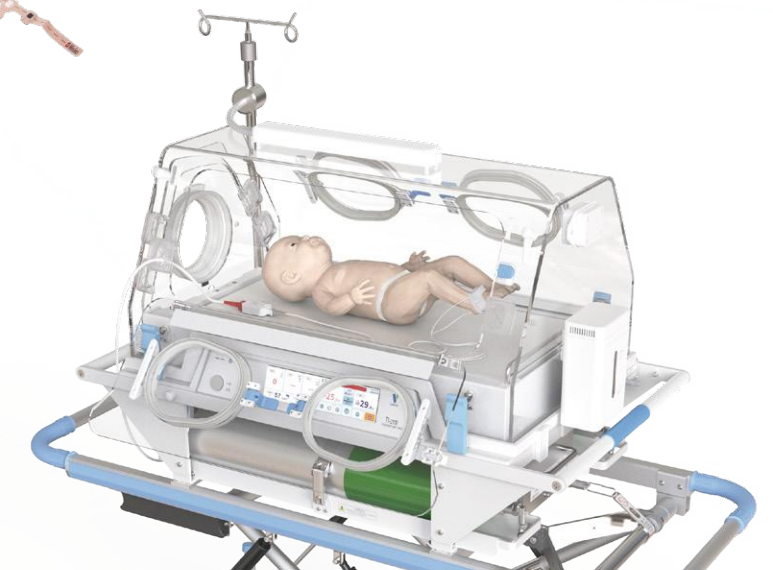
- Hemoglobin monitoring

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.

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



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



¹ <Castillo et al. Prevention of retinopathy of prematurity in preterm infants through changes in clinical practice and SpO₂ Technology.> Acta Paediatr.2011 Feb;100(2):188-92

² <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.

