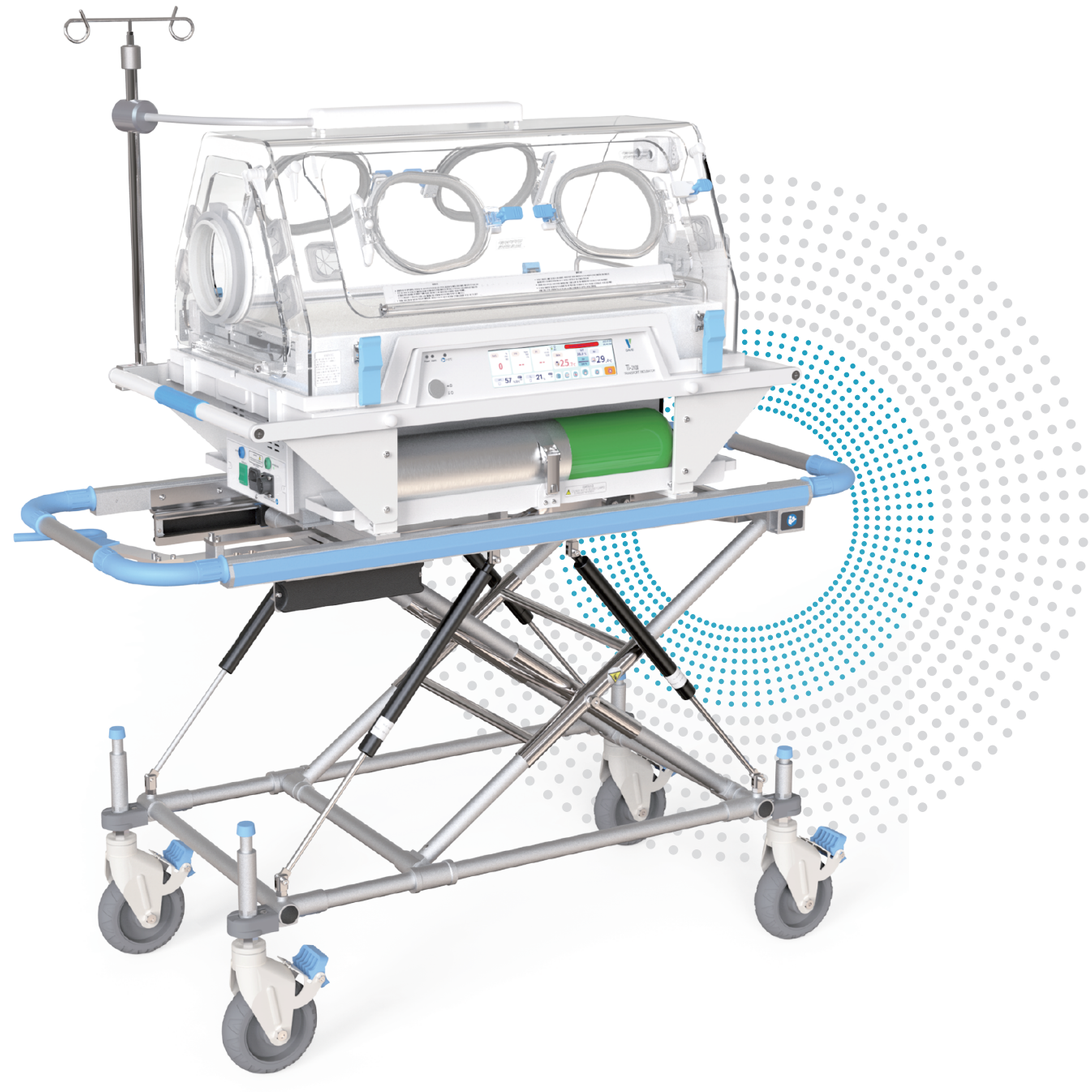
Endless love
To Guard The New Life Safe

DAVID

TI-2100B

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	Lithium battery ≥6hrs Nickel-metal hydride lead-acid battery: About 90min		

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 ▲	DJ-I Trolley platform	JH-II/JH-III ▲
Special monitoring module for newborns			
SpO_2 monitoring	▲	Hemoglobin monitoring	▲
Power voltage	AC: AC110-120V/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, SpO_2 upper and lower limit alarm, etc.		
Product dimension	L1330mm×W540mm× H950-1320 mm		
Product weight	95kg		

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CE 0123

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

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

01. INFANT INCUBATOR MODULE

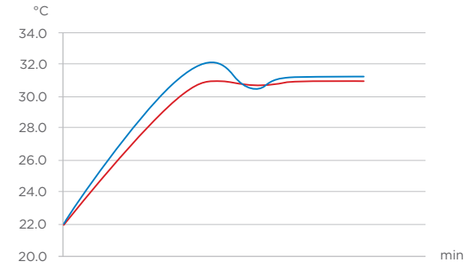
01 Precise control and high-level simulation of maternal incubation environment

Stable temperature control

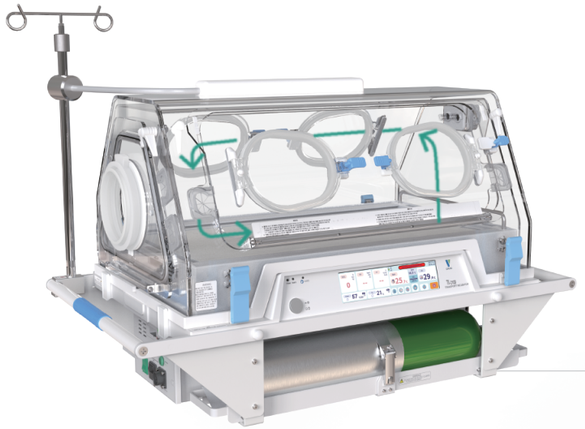
Equipped with an intelligent embedded control system. The updated PID core algorithm makes the temperature fluctuation in the incubator more uniform.

Before the core algorithm is upgraded

After the core algorithm is upgraded



PID Algorithm



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

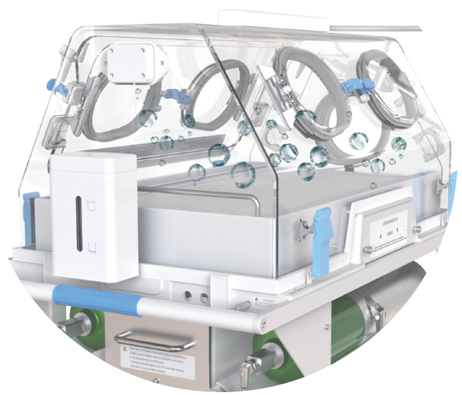
Ideal humidification effect

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

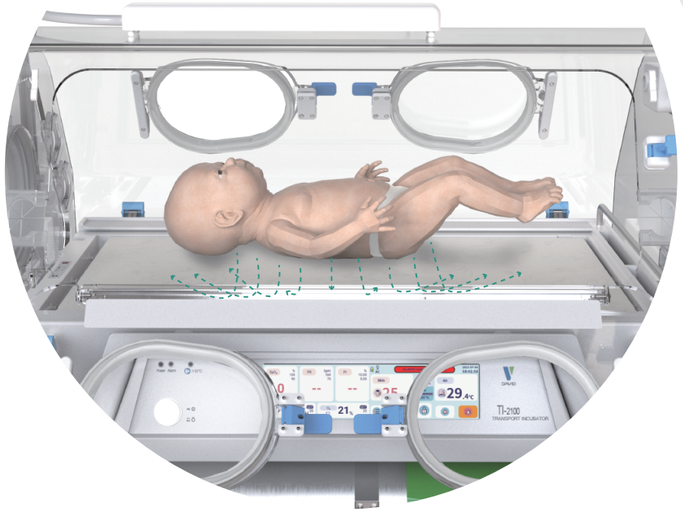
The external humidification device generates water mist through ultrasonic high-frequency oscillation, thereby quickly achieving the ideal humidification effect.

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.



02 Safe transport for diligently building a comfortable therapeutic environment



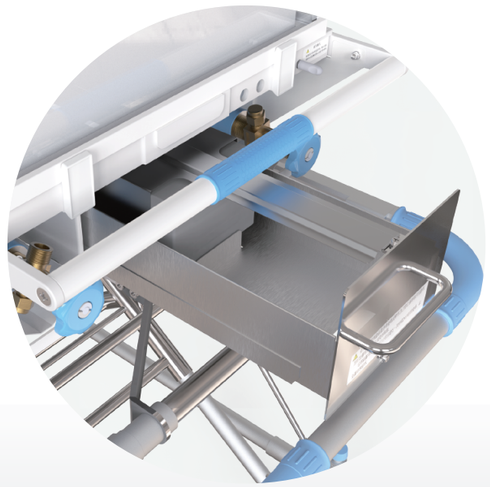
- Pressure-relief antidecubitus mattress is made of TPU material, which is antibacterial, waterproof, soft and breathable, thereby protecting the tender skin of newborns.

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.



6hrs

- 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.

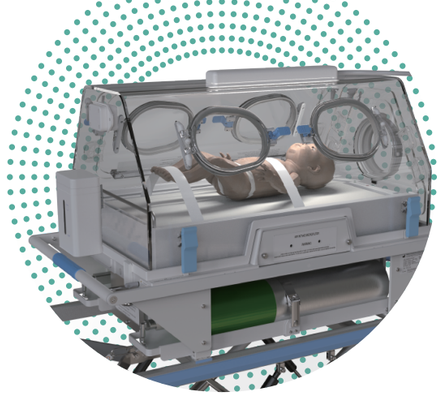
- Frequency-variable DC motor is used to effectively reduce the noise in the incubator and provide a comfortable therapeutic environment.

03 Human-machine interaction for efficiently simplified clinical care procedures

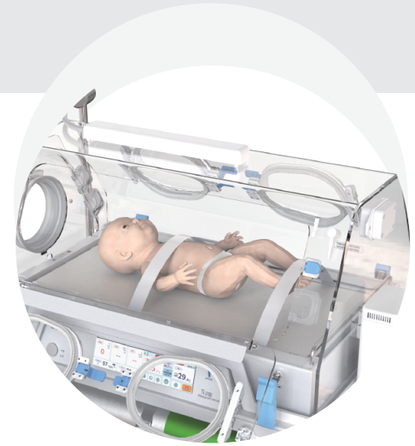
- The 32-bit Android system has strong adaptability and more expansible human-machine interaction functions to meet more clinical treatment needs.

  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.

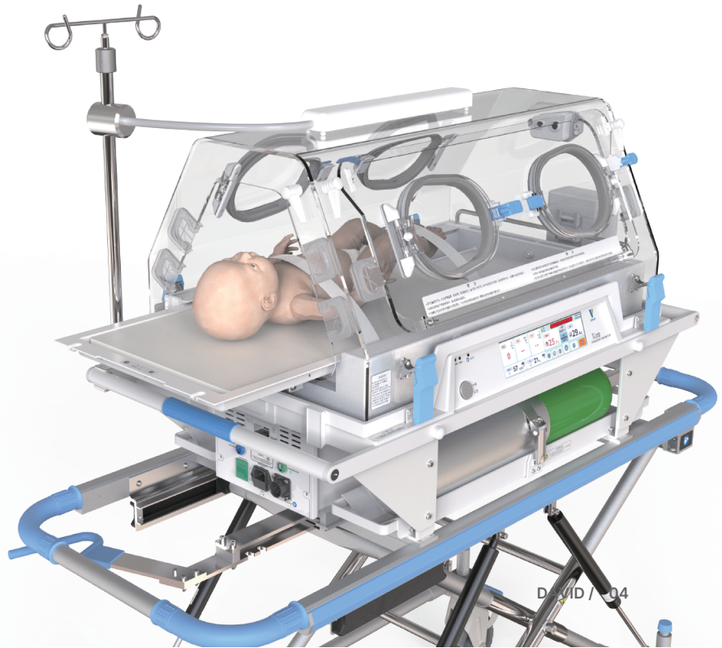


- The incubator is made of PMMA material, 360° transparent and visible with a side door, so that medical staff can observe and care for the newborns in an all-round way to reduce stimulation.



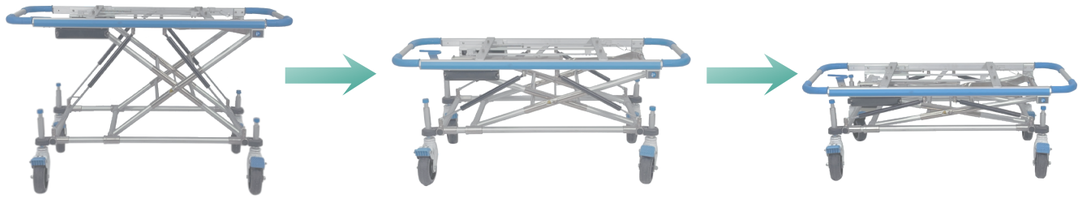
- Disposable non-woven straps, light andcausing no pressure on the newborns, can firmly fix them and provide safe transport.

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



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.

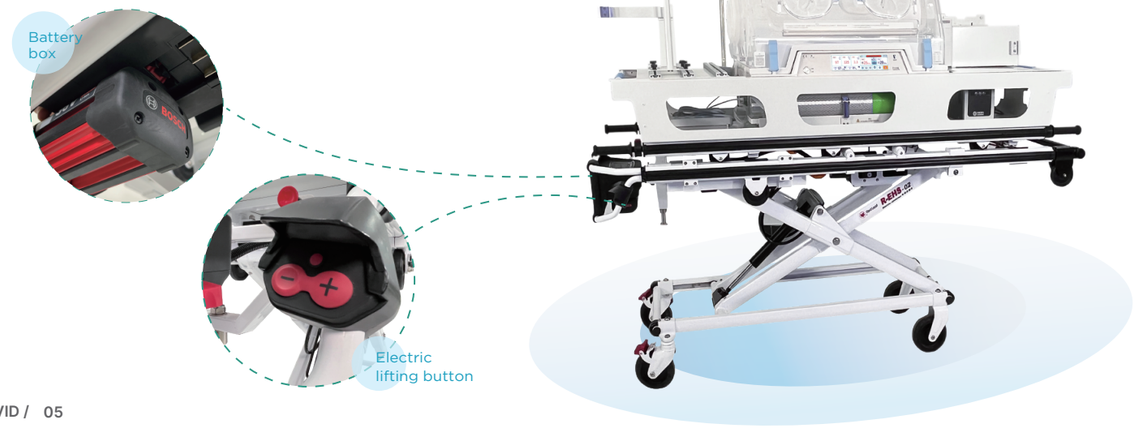
  With the trolley platform, it can place and fix a variety of medical devices and accessories such as ventilators, monitors, infusion pumps, T-piece resuscitators and medical air compressors to fully meet the monitoring and treatment needs of transport and improve space utilization.

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.



03. SPECIAL MONITORING MODULE FOR NEWBORNS

Optional

- Masimo Rainbow SpO_2 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].

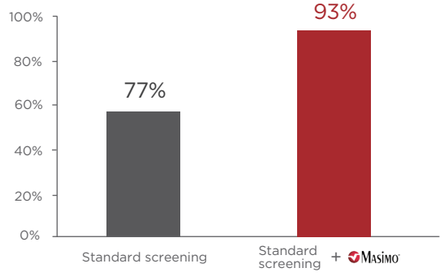
  Effectively eliminate movement interference and improve the measurement performance under low perfusion and body movement states[2].

SpO_2 Pulse oximetry module accessories

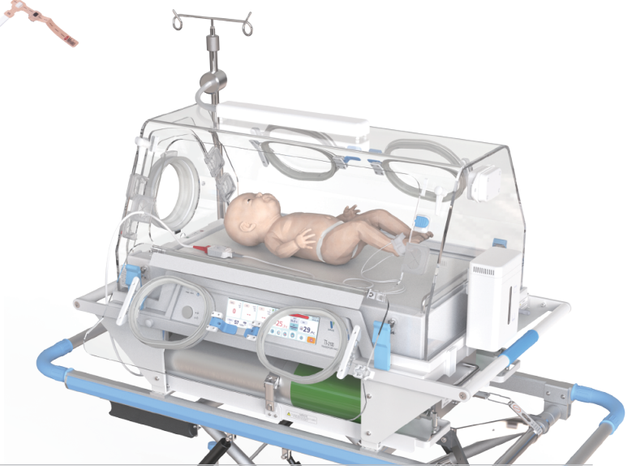
- Hemoglobin monitoring

  The perfusion variation index (PVI) enables clinicians to assess the patient's infusion status, and non-invasively and continuously measures the hemiglobin 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 SpO_2 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., EstanolL. J Clin Anesth. 2012 Aug;24(5):385-91.