

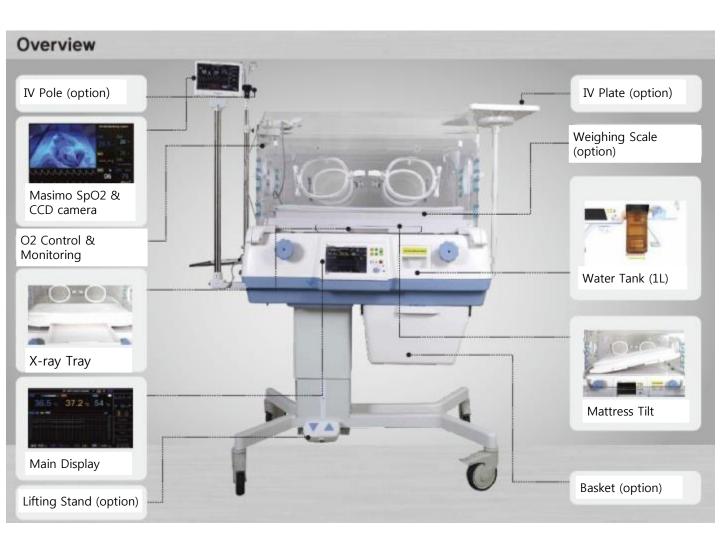
Infant Incubator

BT-500



- Accurate humidity control
- Comfortable and soft tilting structure
- 7" TFT color LCD display
- Various alarm function (27 events)
- Low noise hood
- MASIMO SpO2 and CCD camera
- Accurate weighing scale (±10g)





Configuration

Standard Temperature & Humidity servo control, Fixed stand, X-ray tray, Tilting, 2 pcs skin temp. sensor, 4pcs Air Filter

Options IV pole, IV plate, Lifting stand, O2 monitoring, O2 servo control, Weighing scale, Basket, Shelf, External monitor with Masimo SpO2 & CCD camera

Power-on Self-test

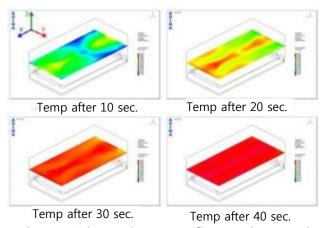
The incubator performs a self-test each time it is turned on. This process allows the incubator to check various systems for proper operation. When the test is successfully completed, the BT-500 displays the main screen.

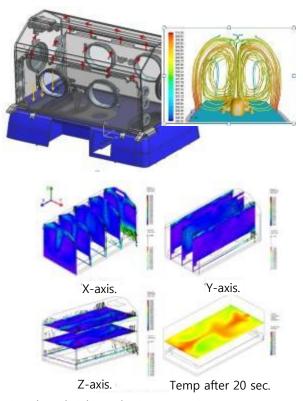




Double Wall

The hood is used to protect an infant from the external environment and maintain the internal environment of hood to best condition. BT-500 has double wall structure to minimize heat loss. The analysis result of Air flow and temperature distribution are shown as below figure.





< Analysis inside incubator Air flow and Temp distribution by Fluid Analysis (Yonsei Univ. Korea) >

Air Curtain

BT-500 has Air Curtain function to reduce temperature fluctuation in hood when the hood door is opened for treatment of infant.

Alarm Function

Alarm of BT-500 indicates the condition of failure. According to each alarm condition, alarm messages are displayed and alarm sound is caused and sensor module's LED blinks.

There are 27 kinds of alarms by failure situation.

System Alarms

Motor failed, Heater system failed, Humidity heater failed, Stuck key, Humidity sensor failure, Air sensor failure, Fan power failure, Air circulation failure, Skin probe fail, Remove skin 2 probe, Sensor module disconnected, Sensor module not in position

Temperature Alarms

Low air temperature, High air temperature, Low skin temperature, High skin temperature, High skin 1 temperature, High skin 2 temperature, High temperature cutout, Over skin temperature

Humidity Alarms

Low humidity, Water empty

Oxygen Alarms

O2 module power failure, O2 module detached, O2 sensor fault, Low oxygen, High oxygen

Weighing Scale Alarms

Too much weight

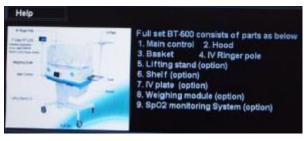




Quick Guide

BT-500 has Help function which provides the simple information about the equipment. The information is as below :

- Part of full set BT-500
- Main control panel and main display
- How to use and change mode and parameters









External Monitor

BT-500 uses external 7" color TFT LCD monitor that displays measured values from the control and video of infant inside the hood. Cam mode, Graph mode and Masimo mode are shown as below.

Cam Mode (a)

Air temperature, skin temperature, humidity, oxygen concentration and weighing scale are displayed on external monitor with real-time video of infant.

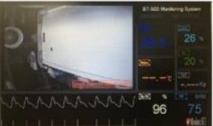
Graph Mode (b)

Air temperature, skin temperature, humidity, oxygen concentration and weighing scale, SpO2 and PR are displayed on external monitor with real-time video of infant. Also, graphs of each parameters are displayed.

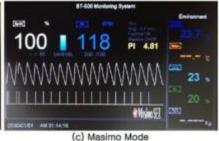
Masimo Mode (c)

Air temperature, skin temperature, humidity, oxygen concentration and weighing scale are basically displayed. SpO2 and PR are mainly displayed.





(b) Graph Mode



BT-500 Infant Incubator



Specifications: BT-500 Infant Incubator			
Functional Characteristi	cs		
Temperature Control		Humidity Control	
Air Control Range	Normal : 23.0 ~ 37.0°C	Control Range	30 ~ 95%
	Override : 37.1 ~ 39.0°C	Measurement Range	15~99% ±5% RH(non-condesing)
Air Measurement range	20.0 ~ 45.0°C ±0.5°C	Control System	Steam(Boiling at 100°C)
Skin Control Range	Normal : 35.0 ~ 37.5°C	Water Tank	1,000ml (Autoclavable)
Skiir control Range	Override : 37.6 ~ 39.0°C	Display	1/000mm (xtatociavable)
Skin Measurement range		Туре	7" TFT Color LCD
	25.0 % 45.0 C ±0.5 C	Hood	7 TTT COIOT ECD
Function	d O. Davible Cafety Facture	:	40 120
· ·	d & Double Safety Feature	Mattress tilt	up to 12°
Trend	9~72hours (Weighing Scale 9days)	•	< 45dB
Alarm(Visual & Sound)	27 Events Alarms	Air Filter Particle Size	0.3micron
Warm-up Time	Silent Mode: 60min, <45dB	Air Filter Efficiency	99.8%
	Normal Mode : 45min, <55dB	Double Wall	
	Fast Mode : 30min, <66dB	Air Curtain	
Alarm Sounds for 30min	when Power Outage	X-ray Tray	
Multi-language		Masimo SpO2 with CCD & External Monitor (Option)	
Quick Guide		Display	7" TFT Color LCD
Power On Self Test		SpO2 Range	1~ 100%
O2 Measurement (Option	n)	SpO2 Accuracy	70 ~ 100% ±3digits
Measurement Range	18 ~ 100% ±5%	'	0 ~ 69% : Unspecified
O2 Servo Control (Option	n)	Pulse Rate Range	25 ~ 240bpm ±3digits
Control Range	21 ~ 65% ±5%	CCD Camera	510 x 492 pixels
Weighing Scale (Option)			Video Recording
Measurement Range	$0 \sim 10.0 \text{Kg} \pm 10 \text{g}$		_
Shelf (Option)	3 3	Basket (Option)	
Weight Limit	Approx. 3Kg	Weight Limit	Approx. 10Kg
IV Plate (Option)	- ' '	PC Interface	.,
Weight Limit	Approx. 11Kg	RS232C	
Power			
Input	AC 110/220, 50/60Hz	Consumption	950VA
Output	AC 110/220, 50/60Hz, Max.400VA		
Standard Configuration			
Skin Temperature Sensor	202	Air Filter	4ea
		1	
Power Cord	1ea	Operation manual	1ea
Options		D: D. I	
Lifting Stand		Ringer Pole	
IV Plate		Weighing Scale	
Basket		Shelf	
O2 Monitoring		O2 Servo Control (O2 Mo	onitoring Included)
Masimo SpO2 with CCD	& External Monitor		
Warranty			
Main Unit	2years		
Physical Characteristics			
Dimension	1.001010 500/01 1.00100	Weight	20.01/ 1.147.51/
Standard	1,024(W) x 690(D) x 1,354(H)mm	Standard / Full Option	99.3Kg / 117.5Kg
Stand Fixed / Lifting	645(H) mm / 651 ~ 851(H)mm		
Mattress	730(W) x 380(D) x 27(H)mm		
Packing	1,150(W) x 800(D) x 1,530(H)mm	Packing	126Kg(Full Option)
Environmental Conditio			
Operating Temperature	20 ~ 30°C (68 ~ 86°F)	Storage Temperature	$-20 \sim 60^{\circ}\text{C} (-4 \sim 140^{\circ}\text{F})$
Operating Humidity	0 ~ 95% non-condensing	Storage Humidity	0 ~ 95% non-condensing
Certificates			
Certificates	KFDA, CE, FDA	Standard	IEC60601-1, IEC60601-1-2
			IEC60601-2-19

^{*} All specifications can be different by country and are subject to change without notice.