

Bio Signal Total Solution

Total Health care for everyone



Bio Signal Total Solution

BT-770, BT-740 Multi-parameter Patient Monitor



Int. Sales Team
Bistos Co., Ltd.



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Introduction - Use of Patient Monitor *BT-770 & BT-740*

❖ Main Purpose :

- To measure and show patient's vital signs with graphs & numbers

❖ Object:

- Patients in recovery room, ICU room, operating rooms & others for many purposes

❖ Main Feature:

- The monitored data can be recorded continuously or intermittently on a strip chart recorder at the operator's discretion;
 - ✓ ECG
 - ✓ Respiration
 - ✓ SpO2
 - ✓ Temperature
 - ✓ NIBP
 - ✓ Other measurements (optional)



Introduction - Features

BT-770 & BT-740

- ❖ 12.1" color TFT touch screen (8.4" for BT-740)
- ❖ ECG, Resp., SpO2, NiBP, Temp, EtCO2, IBP, Multi-gas, C.O.
- ❖ Precise ECG measurement with pacemaker detection
- ❖ ST segment and 16types of arrhythmia analysis
- ❖ Double overpressure protection for NiBP
- ❖ Intelligent cuff inflation pressure adjustment
- ❖ Smart Hook/Stand design, provide multiple placement modes
- ❖ Plug & Play Modular IBP&C.O., Modular Printer
- ❖ Multiple configuration options: 4-channel IBP, CO2, invasive C.O., Multi-gas
- ❖ Over 5 hours continuous working on battery
- ❖ 12-15V wide range DC input, suitable for ambulance
- ❖ Capable to connect with central monitoring system
- ❖ HL7 export to clinical information systems (option)
- ❖ Dual screen Central Monitoring Station



Specification

BT-770 & BT-740

❖ General

Model	BT-770	BT-740
Display	12.1" Color TFT-LCD Touch screen	8.4" Color TFT-LCD Touch screen
Battery	11.1V Li-ion 4,400mA, Run time 5hrs, Charging time 4hrs	
Alarm	Visual, audible	
Trend	168hrs, 200 physiological & 100 technical alarm events, NIBP measurement 1,000 groups	
Interface	RJ45, USB, Nurse call, Wi-Fi(option)	
Dimension	320(W) x 65(D) x 250(H)mm	260(W) x 77.6(D) x 200(H)mm
Weight	Main unit: < 2.8kg, packing: 4.6kg	Main unit: < 1.8kg, packing: 3.7kg
Certificate	CE	
Warranty	2 years	



Specification

BT-770 & BT-740

❖ ECG

Lead	5-lead: I, II, III, aVR, aVL, aVF, V 3-lead: I, II, III
Gain	x0.125, x0.25, x0.5, x1, x2, auto
Sweep Speed (mm/s)	12.5, 25, 50
Heart Rate Range (bpm)	Adult: 15-300 Pediatric/Neonate: 15-350
HR Accuracy	±1bpm or ±1%, whichever is greater
Arrhythmia type	14 types
Pacemaker	Pulse amplitude: ±2mv ~ ±700mv Pulse Width : 0.1ms ~ 2.0ms
ST Segment	Measurement Range -2.0mV - 2.0mV



Specification

BT-770 & BT-740

❖ Respiration

Method	Thoracic electrical bio impedance method
Measurement Range	0-120rpm
Accuracy	±2rpm
Gain	10 grades
Sweep Speed(mm/s)	6.25, 12.5, 25

❖ SpO2

Measurement Range	0-100%
Accuracy	Adult/Pediatric : 70 ~ 100% ±2% Neonate : 70 ~ 100% ±3% 0~69%: unspecified
PR range	25-250bpm
PR accuracy	±2% or ±2bpm, whichever is greater



Specification

BT-770 & BT-740

❖ NIBP

Method	Automatic Oscillometric		
Size	Large adult, adult, pediatric, neonate		
Operation Mode	Manual / Auto / STAT		
Measurement accuracy	Maximum average error: ± 5 mmHg Maximum standard deviation: 8mmHg		
Measurement Range	Adult : Systolic: 30-280mmHg Diastolic: 10-220mmHg Mean: 10-240mmHg	Pediatric : Systolic: 30-230mmHg Diastolic: 10-165mmHg Mean: 10-175mmHg	Neonatal : Systolic: 30-145mmHg Diastolic: 10-105mmHg Mean: 10-115mmHg
Interval for measurement	1/2/3/4/5/10/15/30/60/90/120/180/240/480min		
Over-pressure protection	Adult: 320-330mmHg Pediatric: 265-275mmHg Neonate: 160-165mmHg		



Specification

BT-770 & BT-740

❖ Temp

Parameter	T1, T2 and TD
Type	Skin temp sensor (standard), Rectal temp sensor (option)
Measurement Range	0-50 °C (32-122 °F)
Accuracy	±0.3 °C
Resolution	0.1 °C

❖ IBP (option)

Channel	Dual
Measurement Range	-50 – 400 mmHg
Accuracy	±3 mmHg or ±2%, whichever is greater
Transducer sensitivity	5µV/V/mmHg





Specification

BT-770 & BT-740

❖ C.O. (option)

Measurement Range	C.O. : 0.2 ~ 20 L/min BT : 23 ~ 45℃±0.5 ℃ IT : 0 ~ 20℃±0.5 ℃
Accuracy	C.O. : ±5% or ±0.1 L/min, subject to the bigger one BT, IT : ±0.1℃ (sensor exclusive)



❖ Bistos EtCO2 (option)

Mainstream/Sidestream	Mainstream, Sidestream
Measurement Range	0~150mmHg, AwRR : 0~150rpm
Accuracy	0 ~ 10vol% : ± (0.2vol%+2% of reading) 11 ~ 20% : ± (0.2vol%+5% of reading)





Specification

BT-770 & BT-740

❖ Bistos Multi-gas (option)

Mainstream/Sidestream	Mainstream, Sidestream
Measurable gases	CO2, Sevoflurane, Isoflurane
Measurement Range	CO2 : 0 ~ 20% Isoflurane : 0 ~ 5% Sevoflurane : 0 ~ 8%
Accuracy	Co2 : $\pm 0.20\text{Vol}\% + 5\%$ Isoflurane : $\pm 0.15\text{Vol}\% + 5\%$ Sevoflurane : $\pm 0.15\text{Vol}\% + 5\%$
Respiratory Rate	Range : 2 ~ 150RPM ; Accuracy: 2 ~ 70 : $\pm 1\text{RPM}$ 70 ~ 150 : $\pm 2\text{RPM}$
Anesthetic gas Detection	Auto-detection time is less than 20s Detection threshold: 0.2%Vol
RR Detection	Not less than 1% of CO concentration change

➤ High performance-price ratio solution with high performance & reliability.





Specification

BT-770 & BT-740

❖ Printer (option)

Type	Thermal dot array
Speed (mm/s)	12.5, 25, 50
Paper Size (mm)	50

❖ Others (option)

Cart	5 wheels, basket, handle
Wall mount bracket	
HL7	
Wi-Fi	





Specification

BT-770 & BT-740

❖ Masimo series (option)

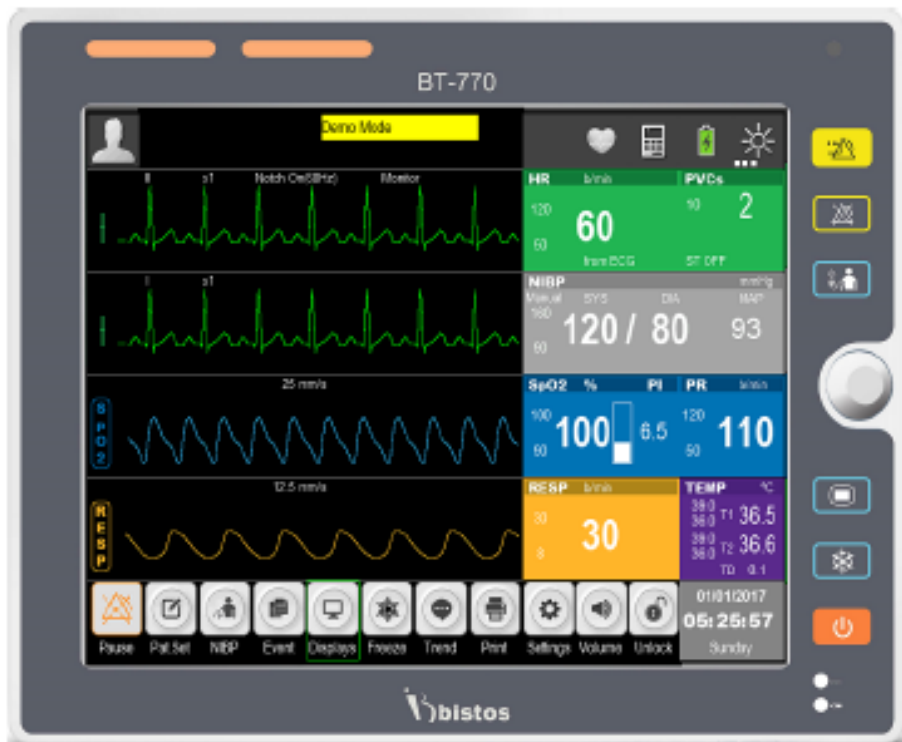
Masimo EtCO ₂	ISA CO ₂ Sidestream	Warm-up time: < 10 sec Range: 0-15% vol%, ± 0.2 vol% + 2% of reading Respiratory rate: 0-150 bpm ± 1 bpm
	IRMA CO ₂ Mainstream	
Masimo Multi-gas	ISA AX+ Sidestream	CO ₂ , N ₂ O, Agents, Mixture, Auto ID Warm-up time: < 20 sec Range: <ul style="list-style-type: none"> • CO₂: 0-15 vol%, ± 0.2 vol% + 2% of reading • N₂O: 0-100 vol%, ± 2 vol% + 2% of reading • HAL, ISO, ENF: 0-8 vol%, ± 0.15 vol% + 5% of reading • SEV: 0-10 vol%, ± 0.15 vol% + 5% of reading • DES: 0-22 vol%, ± 0.15 vol% + 5% of reading • Respiratory rate: 0-150 bpm ± 1 bpm





Configuration - Outlook

BT-770 & BT-740













➤ Front View



➤ Side View










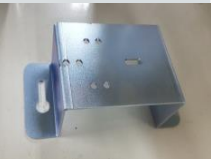




Configuration - Options & Accessories *BT-770 & BT-740*

	Name	Description		Name	Description
	ECG cables & lead wire	Measures ECG		NiBP extension tube	Tube to connect the NIBP cuff and main body
	ECG electrode for adult	Electrode for ECG measurement		Temperature sensor	Measures the body temperature
	SpO2 adult reusable sensor	SpO2 sensor for adult		Power adaptor	For power supply
	SpO2 extension tube	Cord to connect the SpO2 sensor and main body		IBP (option)	2-channel IBP Module IBP sensor cable 2pcs IBP sensor package 2pcs
	Adult NiBP cuff	Measures NIBP for adult		C.O. (option)	C.O. module Invasive Cardiac output 6pin cable



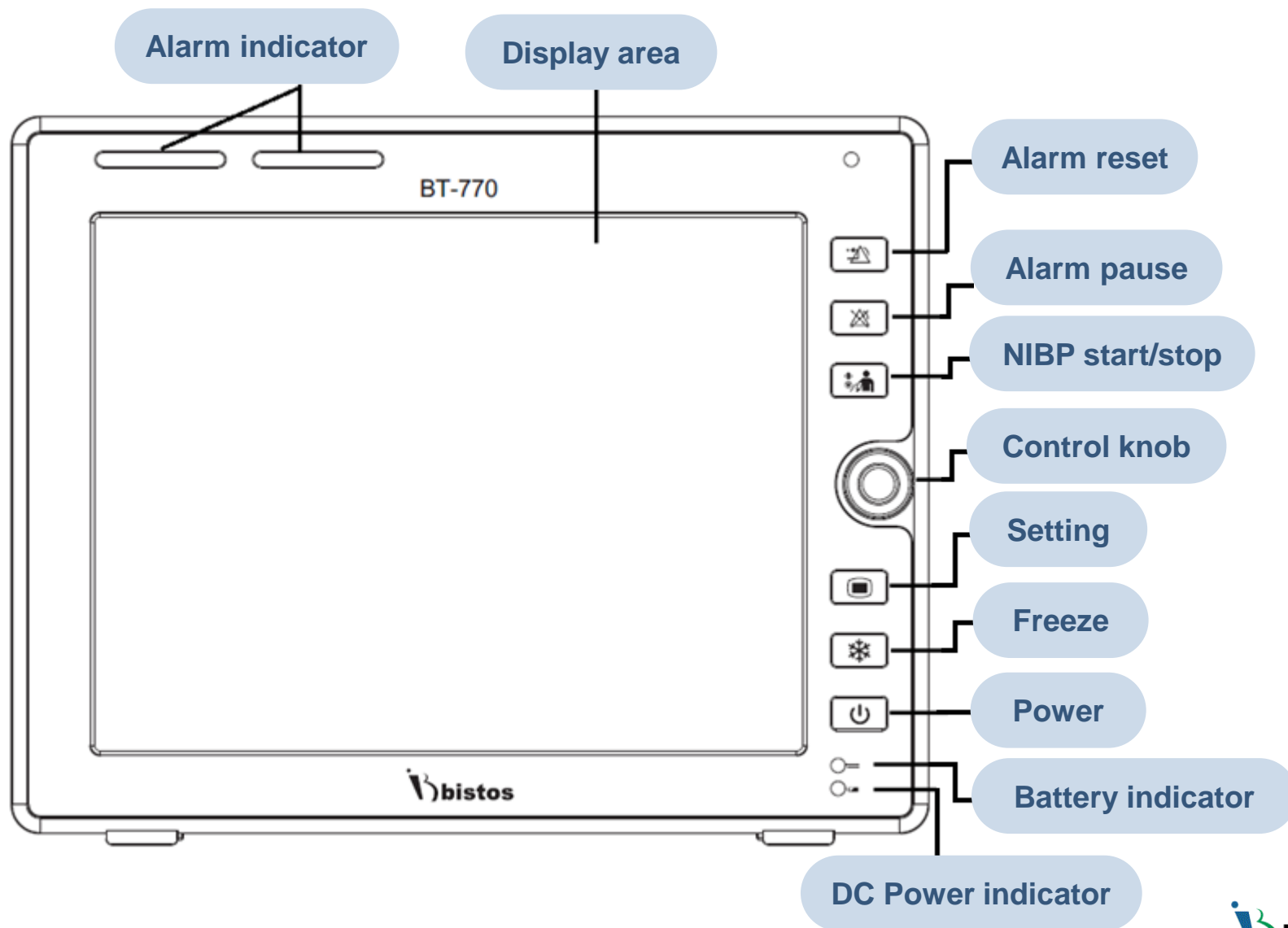
Configuration - Options & Accessories *BT-770 & BT-740*

	Name	Description		Name	Description
	Bistos EtCO2 mainstream (option)	Mainstream EtCO2 module, airway adaptor, module cable		Masimo Multi-gas mainstream (option)	ISA AX+ Sidestream Sensor (CO2, N2O, 5xAA, Auto Agent ID)
	Bistos EtCO2 sidestream (option)	Sidestream EtCO2 module, sampling line, water trap		Masimo Multi-gas sidestream (option)	ISA AX+ Sidestream Sensor (CO2, N2O, 5xAA, Auto Agent ID), sampling line
	Masimo EtCO2 mainstream (option)	Masimo IRMA CO2 Mainstream EtCO2 Module, airway adaptor, cable		Masimo SpO2 (option)	Masimo SpO2 board, Masimo SpO2 Extension M-LNC-10 patient cable
	Masimo EtCO2 sidestream (option)	Masimo ISA CO2 Sidestream EtCO2 Module, sampling line		Printer (option)	Printer module
	Bistos Multi-gas mainstream (option)	Mainstream multi-gas module, airway adaptor, module cable		Wall mount bracket (option)	-
	Bistos Multi-gas sidestream (option)	Sidestream multi-gas module, sampling line, water trap		Cart (option)	5 wheels, basket, handle



Basic Info - Description of Monitor

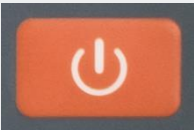




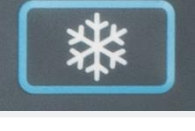
BT-770 & BT-740





Basic Info - Key Operation












BT-770 & BT-740

Symbol	Name	Description
	Power	<ul style="list-style-type: none">- Power On: Press down the key more than 2 seconds.- Power off: Press down the keys more than 2 seconds and the system will display the alarm message "The system will shut down 3seconds".
	Alarm reset	To reset the alarm condition.
	Alarm pause	To pause the alarm sound. Alarm pause time can be set as 1, 2, 3, 4, 5, 10, 15 minutes, and permanent. Default setting is 2 minutes.
	NIBP start/stop	Start and stop the non-invasive blood pressure measurement.
	Setting	Enter to the setting mode. Press again to close the setting mode.
	Freeze	Freeze/unfreeze the waveform



Basic Info - Smart Hot Key

BT-770 & BT-740

Symbol	Name	Description
	Pause	Alarm pause
	Pat. Set	Patient information setting
	NIBP	NIBP measurement start and stop
	Event	Manual event mark
	Displays	Change the display format
	Freeze	Freeze the waveform
	Trend	Trend display
	Print	Print key
	Settings	Setup menu
	Volume	Volume setup key
	Unlock	Touch screen lock key

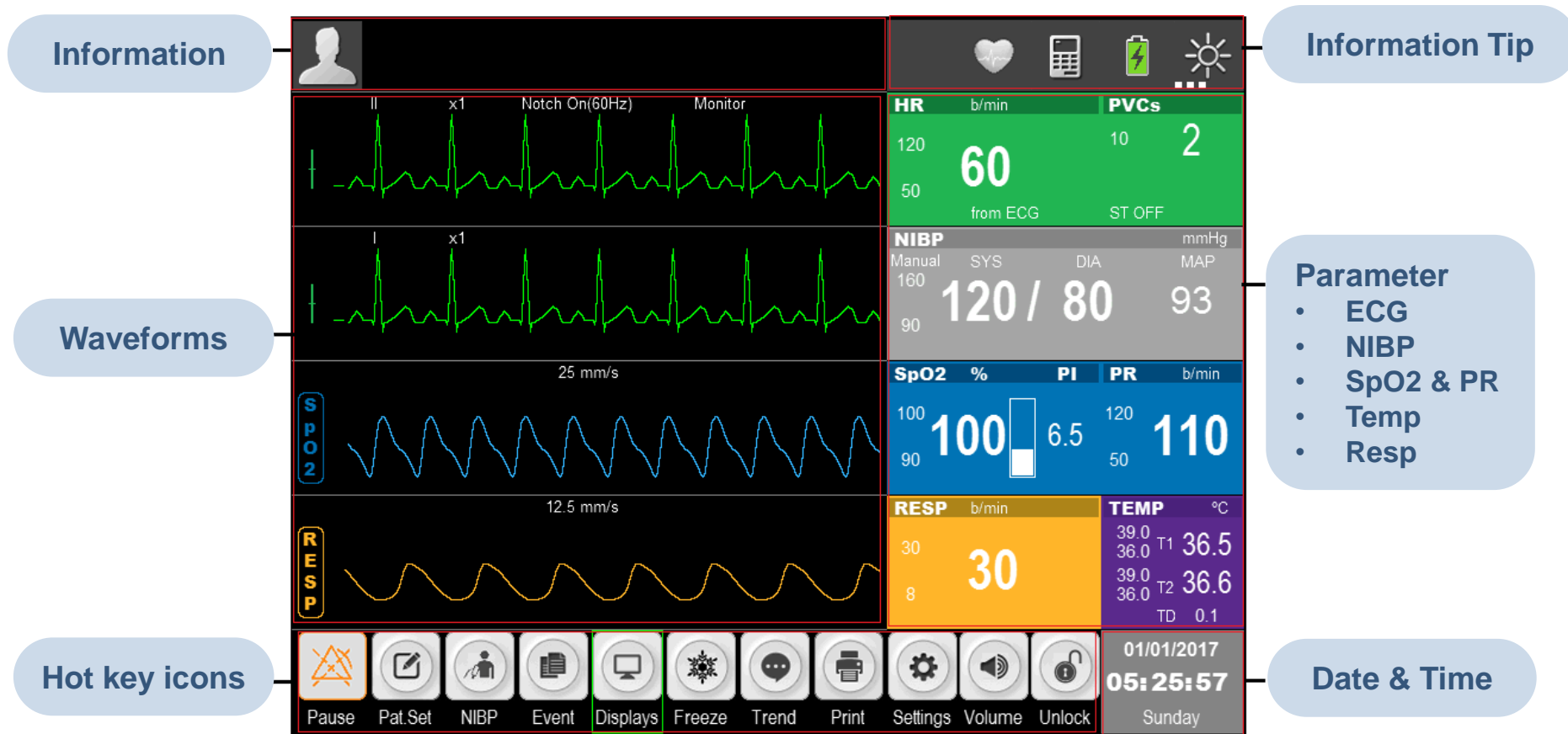
- Smart hotkeys are graphic hotkeys displayed at the bottom of the main screen of the monitor.
- Smart hotkeys enable the user to use specific features conveniently.



Basic Info - Understanding Display

BT-770 & BT-740

❖ Standard Display





Basic Info - Configuration Settings

BT-770 & BT-740

❖ You can easily control all the details of configuration in 'settings'.

- Patient information
- Date & time
- Alarms for each function
- Module Setup: Network, printer, etc.
- Parameter Setup for ECG, SpO2, NIBP, RESP, Temp and optional functions
- Trend: Graphic, tabular, NIBP
- Drug Calculation
- Demo mode
- User maintenance
- Factory Maintenance
- Languages (English, Turkish, Spanish, French)



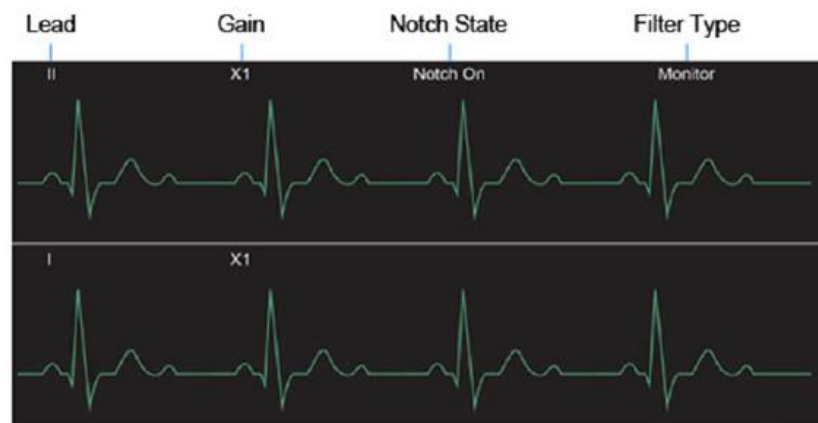


Function - ECG

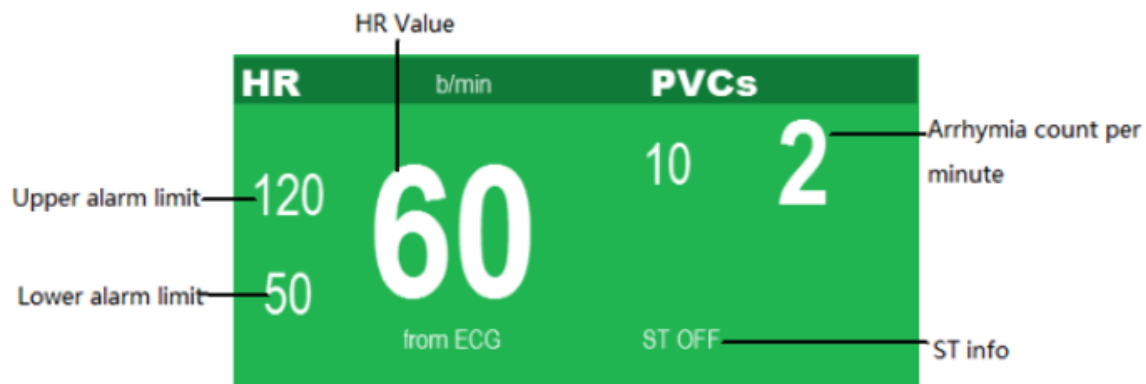
BT-770 & BT-740

❖ ECG

- The monitor displays two ECG waves on the normal screen. When “Pace Maker” is set to “Yes”, and the patient wears a pacemaker, the “|” symbol will be marked in the top of the ECG wave.



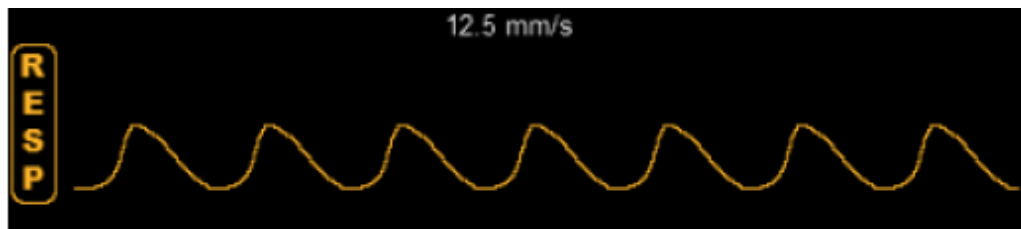
- The ECG parameter area of the monitor in the normal screen is shown.



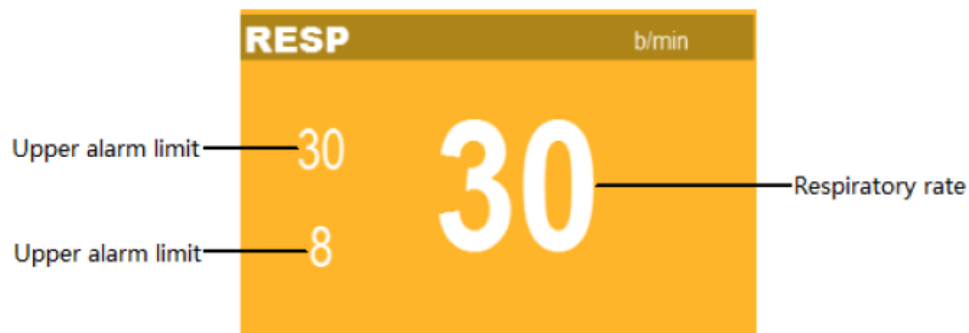


❖ Respiration

- Thoracic electrical bio impedance is a method used for measuring the respiration.
- Respiration wave display



- Respiration parameter display





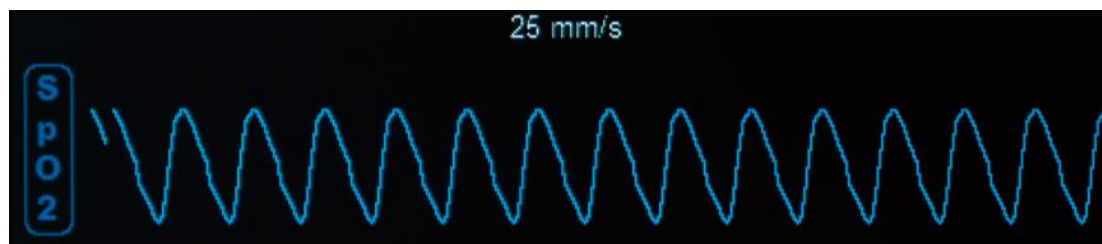
Function - SpO2

BT-770 & BT-740

❖ SpO2

- The mechanical activity of the heart causes arterial pulsation, and PR (pulse rate) value can be obtained by measuring this pulsation. PR value can be obtained through SpO2 measurement.

- SpO2 waveform



- SpO2 & PI parameter



- Pulse rate parameter



❖ NIBP

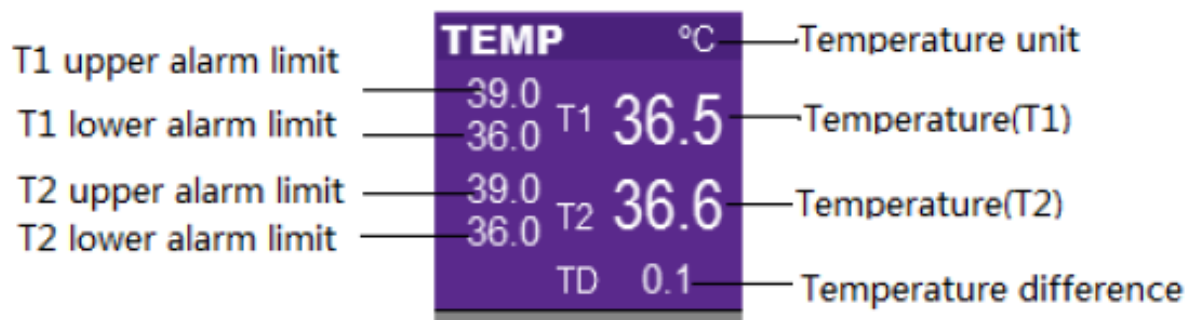
- The monitor uses oscillometric method to measure noninvasive blood pressure (NIBP). The oscillometric method for measuring blood pressure is to inflate a cuff with a certain amount of pressure until the arterial blood flow has been completely blocked.
- NIBP measurement has no waveform display, and only displays NIBP measurement results in the parameter area.





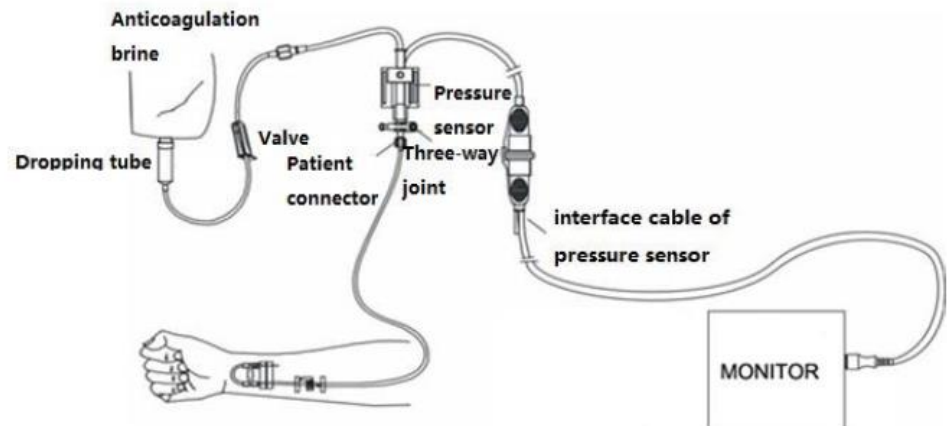
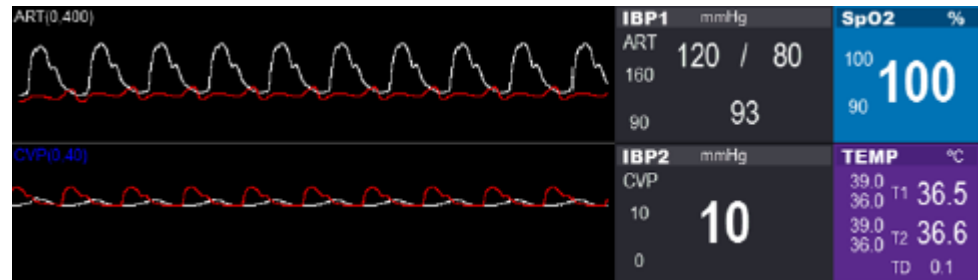
❖ Temperature

- The monitor has two temperature measurement channels; the temperature sensor will measure the body temperature, and calculate the difference between the body temperature data. The monitor is designed for defibrillation proof, so the monitor operates normally after defibrillation.
- The monitor can display the body temperature of two channels (T1 and T2) and the alarm limits, difference between the two temperature (TD) and temperature units.



❖ IBP

- Invasive Blood Pressure (IBP) is generally monitoring the following parameters. arterial blood pressure, central venous pressure, pulmonary artery pressure, left atrial pressure, right atrial pressure, intracranial pressure.
- Monitor can be used to measure blood vessel pressure (diastolic, systolic blood pressure, mean pressure).





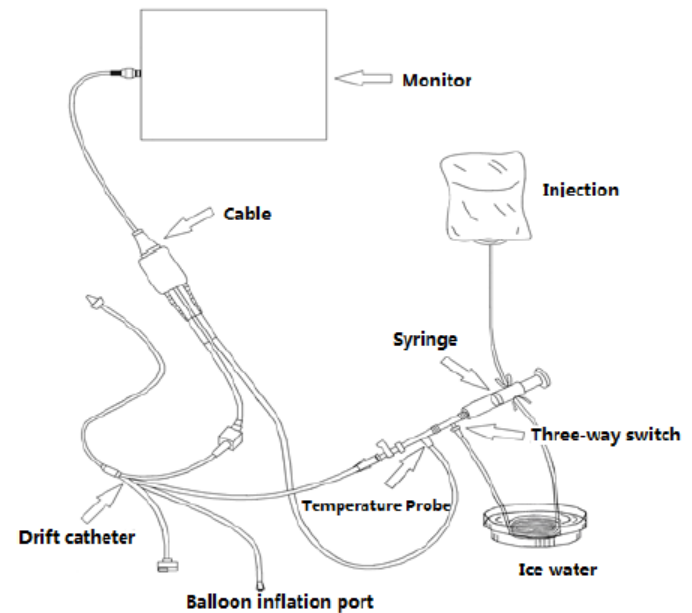
❖ EtCO₂

- The measurement of CO₂ is used to monitor the patients' respiratory state and control their breath. CO₂ measurement is divided into side-stream measurement and main-stream measurement.
- The main-stream measurement is to have direct access to the CO₂ sensor at the joint of air passage in the patient's inserted breathing circuit.
- The probe for respiratory gas is used in the side-stream measurement. The gas in the patient's breathing circuit is collected by use of the constant sampling flow, which is analyzed with the remote CO₂ sensor built in the measurement system.



❖ C.O.

- The measurement of cardiac output (C.O.) is to invasively measure the C.O. and other hemodynamics parameters through the routine thermos dilution. The monitor can measure the blood temperature, calculate the C.O. and carry out the hemodynamics calculation.





Function - Alarm Information

BT-770 & BT-740

❖ Physiological alarms

Source	Default Priority	Alarm Message
ECG	High	Asystole, VF/VTa, Pacemaker Not Capture, Pacemaker Not work, ECG Signal weak
	Middle	HR Too High, HR Too Low, PVCs Too High, R on T, Frequent PVC, Couplet PVC, Single PVC, PVC Bigeminy, PVC Trigeminy, Tachycardia, Bradycardia, Miss Beat, ST-I Too High, ST-I Too Low, ST-II Too High, ST-II Too Low, ST-III Too High, ST-III Too low
Resp	Middle	RR Too High, RR Too Low
	High	Apnea(Resp), Resp Artifact
Temp	Middle	T1 Too High, T1 Too Low, T2 Too High, T2 Too Low, TD Too High
SpO2	Middle	SpO2 Too High, SpO2 Too Low, PR Too High PR Too Low
NIBP	Middle	NIBP signal weak, NIBP-Sys Too High, NIBP-Sys Too Low, NIBP-Mean Too High, NIBP-Mean Too Low, NIBP-Dia Too High



Function - Alarm Information

BT-770 & BT-740

❖ Technical alarms

Source	Default Priority	Alarm Message
System	High	Battery Low
ECG	Middle	ECG Lead Off, ECG YY OFF
	High	ECG Comm. Stop, ECT Comm. Error, ECT Config Error, ECG Selfcheck Error
Temp	Low	Temp1 Sensor Off, Temp2 Sensor Off
SpO2	High	SpO2 Comm. Stop, SpO2 Comm. Error
	Low	SpO2, No Sensor, SpO2 Sensor Off, SpO2 Search Timeout, SpO2 Search Pulse
NIBP	High	NIBP Comm. Stop, NIBP Comm. Error, NIBP Selfcheck error, NIBP CFG Error, NIBP system error
	Low	Measurement timeout, Cuff type error, Cuff loose or no cuff, Cuff leak, Air pressure error, NIBP over range, NIBP signal weak, NIBP signal unstable, NIBP signal saturated, NIBP over pressure, Module reset failed



Central Monitoring System

BT-770 & BT-740

❖ Dual Screen Central Monitoring Station

➤ Up to 30 units can be connected to PC with dual screen

➤ Basic Hardware configuration

1. Computer configuration

- CPU: 1GHz or above
- Memory: 4G or above
- Hard disc: 500GB or above
- NIC: 100M self-adaptive
- Sound card: 16-bit
- Monitor: 19 inch or above Operating system: WINDOWS 7 or above

2. Printing system: printer

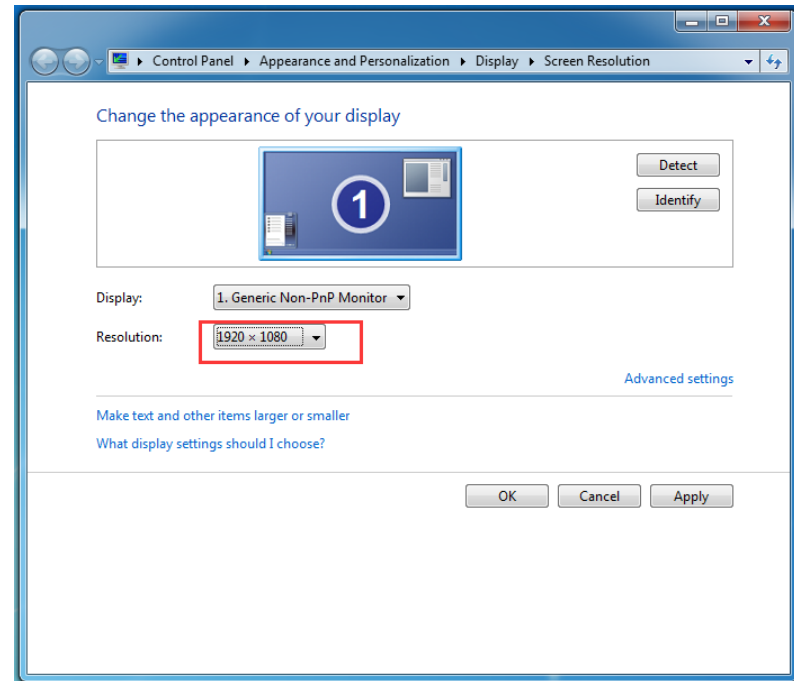
3. Switch/ Hub: 10M/100M self-adaptive

4. Network cable: Straight-through cables (same color definition for the 2 ends)



❖ Computer installation

- Install the operating system (WIN7)
- Install the network card and its driver
- Set the monitor display resolution to 1920*1080 following below method:
right click on desktop → “Property” → “Setting”





Central Monitoring System

BT-770 & BT-740

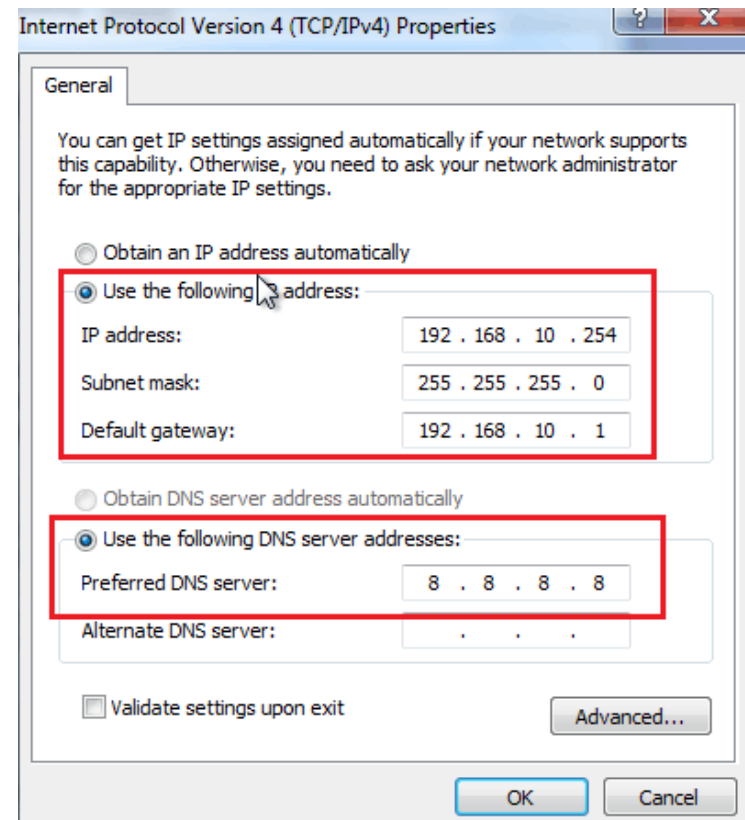
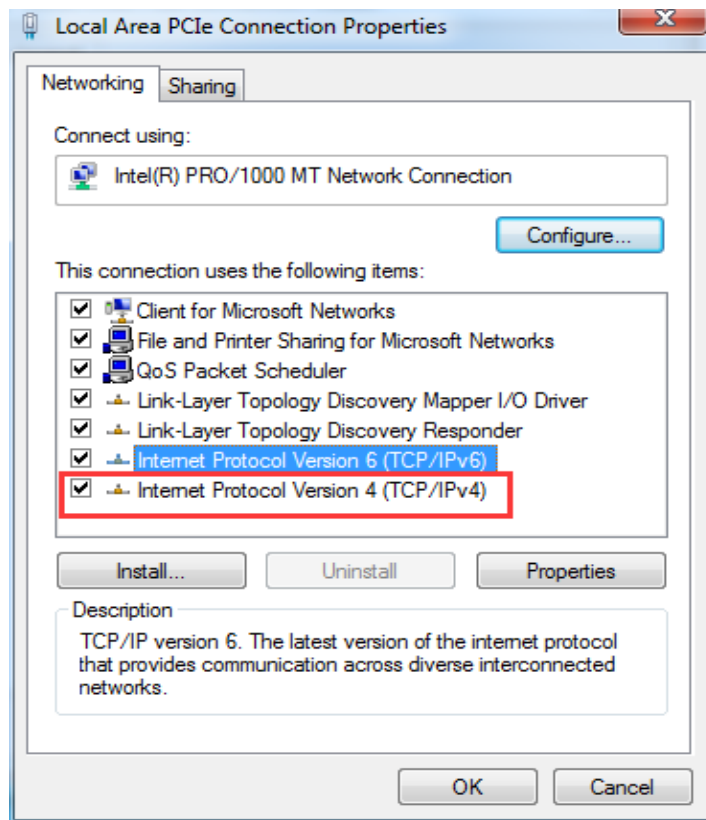
❖ Network connection

- Use a network cable to connect one end of the Hub to the network card interface of the Central Unit and the other end to any port of a 16-port Hub.
- Use another network cable to connect any port of a 16-port Hub and the other end to the network interfaces of Bed Side Units.



❖ Network Setting

- The IP address settings for the Central monitor system





Central Monitoring System

BT-770 & BT-740

❖ Network Setting

➤ Bed Number Setting

Network Setup X

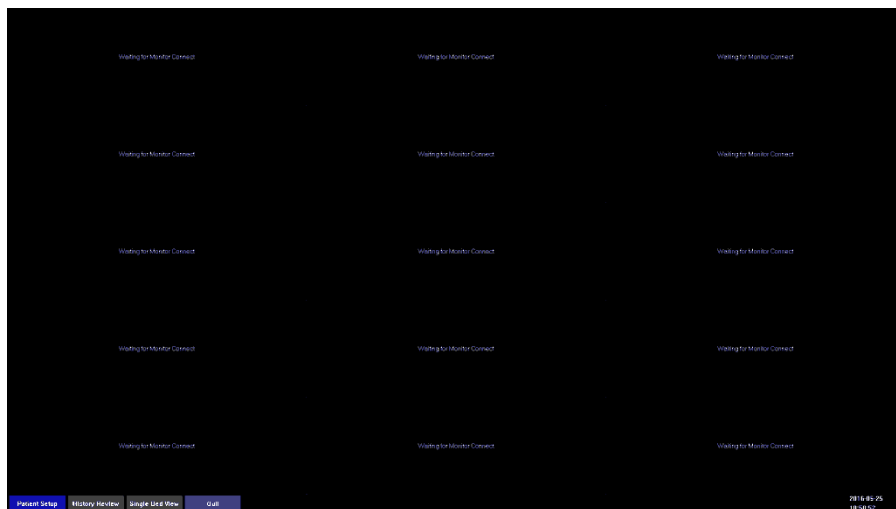
Net Type	LAN			
Local IP	192	168	10	56
Remote IP	192	168	10	254
Subnet Mask	255	255	255	0
Gateway	192	168	10	1
Remote Port	2528			

no need to change

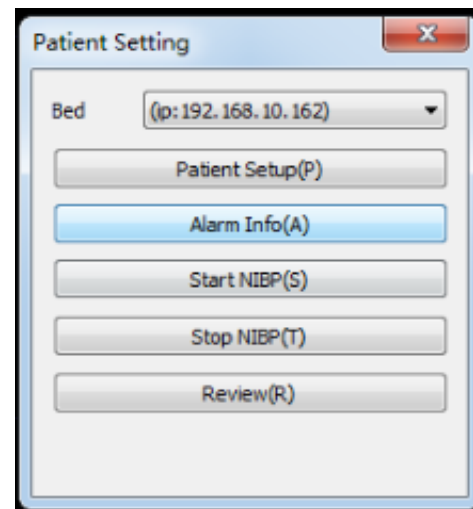
- User Maintenance -> Module Setup -> Network Setup
- Set the Local IP address to be 192.168.10.x(x can be 2 to 253)
- Set the Remote IP address to be 192.168.10.254

❖ CMS Screen Display

➤ Main Screen



➤ Settings





Central Monitoring System

BT-770 & BT-740



- ❖ RJ45 connection
 - Advantage : Low cost



Comparison Chart

BT-770 & BT-740

❖ ECG





Model	BT-770	M9000A	B125	Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Lead Type	5-lead: I, II, III, aVR, aVL, aVF, V 3-lead: I, II, III	5-lead: I, II, III, aVR, aVL, aVF 3-lead: I, II, III	5-lead: I, II, III, aVR, aVL, aVF and V 3-lead: I, II, III	5-lead: I, II, III, aVR, aVF, aVL, V 6-lead: I, II, III, aVR, aVF, aVL, V, V+ 12-lead: I, II, III, aVL, aVR, aVF, dV1, V2, dV3, dV4, V5 and dV6
Gain	x0.125, x0.25, x0.5, x1, x2, auto	Auto, 0.25x, 0.5x, 1.0x, 2.0x, 4.0x	0.5x, 1x, 2x and 4x	
Sweep Speed (mm/s)	12.5, 25, 50	12.5, 25, 50	12.5, 25, 50	
Bandwidth	Diagnostic Mode: 0.05-130 Hz Monitoring Mode: 0.5-40 Hz Surgery Mode: 1-25 Hz Strong Mode: 5-20 Hz		Monitor: 0.5-40 Hz ST: 0.05-40 Hz Diagnostic: 0.05-145 Hz	Filter off: 0.05 to 40 Hz display; 0.05 to 125 Hz printer Monitoring filter: 0.5 to 40 Hz; ESU filter: 0.5 to 16 Hz
Heart Rate Range (bpm)	Adult: 15-300 Pediatric/Neonate: 15-350	10-350	30-300	15-300
HR Accuracy	±1bpm or ±1%, whichever is greater *High Accuracy	±1bpm or ±1% whichever is greater	±5bpm or ±5% whichever is greater	± 2 bpm or ± 1% whichever is greater
Pacemaker Display ability	Pulse amplitude : ±2mv to ±700mv Pulse Width : 0.1ms to 2.0ms	Pulse amplitude : ±2mv to ±700mv Pulse Width : 0.1ms to 2.0ms	Range: 2 to 700 mV Pulse width: 0.5 to 2 ms	Leads: I, II or III Amplitude: ± 2 to ± 700 mV Width (dp): 0.2 to 2.0 msec
ST Segment Analysis	Measurement Range: -2.0mV-2.0mV	Measurement Range: -2.0mV-2.0mV	Numeric range: -9 to +9 mm (-0.9 to +0.9 mV)	Measurement Range: Start of ECG c omplex to fiducial point (minimum 0.3mV amplitude)



Comparison Chart

BT-770 & BT-740

❖ RESP

Model	BT-770	M9000A	B125	Infinity Delta XL
				
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Method	Thoracic electrical bio impedance method	Impedance variation between RA-LL(R-F)		
Measurement Range	0-120rpm	0-150rpm	Adult/pediatric: 4 to 120rpm Neonate: 4 to 180rpm	0-155rpm
Accuracy	±2rpm	±2rpm	±5% or ±5 resp/min, whichever is greater	± 1rpm or 2% of rate, whichever is greater
Gain	10 grades	x1, x2, x4	Range: 0.1 to 5 cm/Ohm	
Sweep Speed (mm/s)	6.25, 12.5, 25	6.25, 12.5, 25		

❖ TEMP

Range	0-50 °C (32-122°F)	0-50 °C (32-122°F)	10-45 °C (50-113°F)	Absolute: -5° C to 50° C Delta: 0° C to 55° C
Parameter	T1, T2, TD		T1, T2, T2-T1	
Accuracy	±0.3 °C	±0.1 °C without probe	±0.1 °C without probe	Absolute: ± 0.1° C Delta: ± 0.2° C
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C



Comparison Chart

BT-770 & BT-740

❖ SpO2

Model	BT-770	M9000A	B125	Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Measurement Range	0-100%	0-100%	0-100%	0-100%
Accuracy	Adult/Pediatric : 70 ~ 100% $\pm 2\%$ Neonate : 70 ~ 100% $\pm 3\%$ 0~69%: unspecified	70-100%: $\pm 2\%$ 0~69%: unspecified	Finger sensor: 70 to 100% $\pm 2\%$ Without motion-neonate: 70 to 100% $\pm 3\%$ With motion-adult/pediatric/ neonate: 70 to 100% $\pm 3\%$ Low perfusion-adult/pediatric: 70 to 100% $\pm 3\%$ (1~69% unspecified)	0 to 69% not specified 70 to 100%: $\pm 2\%$ ($\pm 3\%$ for neonates; Masimo LNOP-Ear: $\pm 3.5\%$; Nellcor DS100A: $\pm 3\%$)
PR range	25-250bpm *Wide range	25-250bpm	30-250bpm	30-250bpm
PR accuracy	$\pm 2\%$ or $\pm 2\text{bpm}$, whichever is greater	$\pm 1\%$ or $\pm 1\text{bpm}$, whichever is greater	Without motion: $\pm 2\text{ bpm}$	Pulse: $\pm 3\text{ bpm}$ or $\pm 3\%$, whichever is greater

Comparison Chart

BT-770 & BT-740

❖ NIBP

Model	BT-770	M9000A	B125	Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Measurement Range	<p>Adult : Systolic: 30-280mmHg Diastolic: 10-220mmHg Mean: 10-240mmHg</p> <p>Pediatric : Systolic: 30-230mmHg Diastolic: 10-165mmHg Mean: 10-175mmHg</p> <p>Neonatal : Systolic: 30-145mmHg Diastolic: 10-105mmHg Mean: 10-115mmHg *Wide measurement range</p>	<p>Adult: 10-270mmHg Pediatric: 10-235mmHg Neonatal: 10-135mmHg</p>	<p>Adult/Pediatric: Systolic: 30-290mmHg MAP: 20-260mmHg Diastolic: 10-220mmHg</p> <p>Neonate Systolic: 30-140mmHg MAP: 20-125 mmHg Diastolic: 10-110mmHg</p>	<p>Adult: Systolic: 30-250mmHg Mean: 20-230mmHg Diastolic: 10-210mmHg</p> <p>Pediatric: Systolic: 30-170mmHg Mean: 20-150mmHg Diastolic: 10-130mmHg</p> <p>Neonatal: Systolic: 30-130mmHg Mean: 20-110mmHg Diastolic: 10-100mmHg</p>
Measurement Accuracy	<p>Maximum average error: ±5mmHg Maximum standard deviation: 8mmHg</p>	<p>Static ±5% or ±3mmHg, whichever is greater</p>	<p>Meets AAMI ISO81060-2 and IEC 80601-2-30</p>	
Interval for measurement	1/2/3/4/5/10/15/30/60/90/120/180/240/480min	1/2/3/4/5/10/15/30/60/90/120/240/480min		1/2/2.5/3/5/10/15/20/25/30/45/60/120/240min
Over-pressure protection	<p>Adult: 320-330mmHg Pediatric: 265-275mmHg Neonate: 160-165mmHg *High maximum protection</p>		<p>Adult/Pediatric: 294 ±6 to 330 mmHg Neonate: 147 ±3 to 165 mmHg</p>	<p>Adult: 265 mmHg ± 5 mmHg Pediatric: 180 mmHg ± 10 mmHg Neonatal: 142 mmHg ± 10 mmHg</p>



Comparison Chart

BT-770 & BT-740

❖ IBP

Model	BT-770	M9000A	B125	Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Channel	2	2	2	
Measurement Range	-50 to 400 mmHg *Wide measurement range	-50 to +300 mmHg	-40 to 320 mmHg (-5.3 to 42.7 kPa)	-50 to 400 mmHg (after zeroing)
Measurement Accuracy	±3 mmHg or ±2%, whichever is greater	±2 mmHg or 2% whichever is greater	±5% or ±2 mmHg, whichever is greater	± 1 mmHg or ± 3%, exclusive of transducer, whichever is greater
Transducer sensitivity	5μV/V/mmHg		5 μV/V/mmHg	5μV/V/mmHg ± 10%

❖ C.O.

Measurement Range	C.O. : 0.2 ~ 20 L/min BT : 23 ~ 45°C±0.5 °C IT : 0 ~ 20°C±0.5 °C *Wide measurement range			C.O. : 0.5 to 20 L/min BT : 25° C to 43° C (77° F to 109° F) IT : -5° C to +30° C (23° F to 86° F)
Accuracy	C.O. : ±5% or ±0.1 L/min, subject to the bigger one BT, IT : ±0.1 °C (sensor exclusive)	X	X	C.O. : ±5% (with 0 °C injectate) IT: ± 0.25° C



Comparison Chart

BT-770 & BT-740

❖ EtCO2

Model	 BT-770	 M9000A	 B125	 Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Mainstream Sidestream	Mainstream, Sidestream	Mainstream, Sidestream	Sidestream	Mainstream, Sidestream
Measurement Range	0-20vol% (0-150mmHg) *Wide measurement range	0-19.7% (0-150mmHg)		0 to 99 mmHg
Measurement Accuracy	0 to 10vol% : ± (0.2vol%+2% of reading) 11 to 20% : ± (0.2vol%+5% of reading)			0 to 40 mmHg ±2 mmHg 41 to 70 mmHg ±5% of reading 71 to 100 mmHg ±8% of reading

❖ Printer

Type	Thermal dot array	Thermal dot array	Thermal dot array	Thermal array printhead
Speed (mm/s)	12.5, 25, 50	12.5, 25, 50	6.25, 12.5, 25	1, 6.25, 12.5, 25, 50
Paper Size (mm)	50	50	50	50



Comparison Chart

BT-770 & BT-740

❖ General

Model	BT-770	M9000A	B125	Infinity Delta XL
Manufacturer	BISTOS	Biolight	GE	DRAEGER
Display	12.1" Color TFT-LCD 800x600 pixels Touch screen	12.1" Color TFT-LCD 800x600 pixels Touch screen	12.1" Diagonal 1280 x 800 pixels Touch screen	12.2" TFT-LCD 800 x 600 pixels
Power Supply	Input : AC 100 ~ 240V (50/60Hz) Output : DC 15V/2.4A	AC 100-240V 50/60Hz Input ≤ 85VA	100 to 240V ±10%, 50/60 Hz, 150VA	100 to 240 V AC, 3A 50 to 60 Hz
Battery	11.1V Li-ion 4,400mA Operating Time : 5hrs Charging Time : 4hrs *Long operating time	Lithium Battery Charging time: ≤ 6h Operating time: 4h (2 batteries f or 8h)	Exchangeable lithium-ion Charging time: < 4h to 90% capacity Run time > 3h	Battery type: lithium-ion Battery capacity: 180 minutes Charging Time: 6.5 hours at 25° C
Alarm	Mode: Visual, audible	Three Level: Low, medium, high Indication: Auditory and visual	Priority: High, Medium, Low and Message Notification: Audible and visual	High (Life Threatening), Medium (Se rious), Low (Advisory)
Trends	168hours, resolution : 1min 200 physiological and 100 tech nical alarm events NiBp result 1000 groups	168hours	Graphical: All parameters, select able time scales from 20 min to 1 68h	24 hours of trended parameter infor mation
Interface	RJ45, USB, Nurse call, Wi-Fi(op tion)	RJ45 Option: RF Wireless LAN, defibr illation output, video output	RS-232 Defibrillation synch, Nurse call, USB port, additional display connector	analog output, RS 232, remote keypad, Wired via DirectNet or Dock ing Station, Wireless via WLAN PC card
Dimension	320(W) x 65(D) x 250(H)mm	318 x 264 x 152mm	280 x 317 x 150 mm	272 x 384 x 190 mm
Weight	< 2.8kg	4.5kg	4.3 kg	6.2kg

Thank You !