

Specifications : BT-710 Handheld Pulse Oximeter

| Functional Characteristics | |
|--------------------------------------|--|
| SpO2 | |
| Display range | 0% ~ 100% |
| SpO2 display resolution | 1% |
| SpO2 accuracy | Adult/Pediatric : 70 ~ 100% \pm 2% |
| | Neonate : 70 ~ 100% \pm 3% |
| | 0 ~ 69% : unspecified |
| SpO2 alarm preset limits | Upper alarm limit : 86% ~ 100% |
| | Lower alarm limit : 85% ~ 99% |
| SpO2 alarm preset accuracy | \pm 1% |
| SpO2 alerting signal generates delay | No delay |
| SpO2 value refresh period | 1s/time |
| SpO2 value refresh delay | < 10s |
| Average period | Low sensitivity : 7 ~ 8s |
| | Intermediate sensitivity : 4 ~ 6s |
| | Advanced sensitivity : 2 ~ 3s |
| Alarm condition delay period | Low sensitivity : < 8s |
| | Intermediate sensitivity : < 6s |
| | Advanced sensitivity : < 3s |
| Alarm sign generates delay period | 0s |
| Pulse Rate | |
| Measuring range | 25 ~ 250bpm |
| Resolution | \pm 1bpm |
| Accuracy | \pm 2% or \pm 2bpm, whichever is greater |
| Display | |
| Type | Color TFT touch screen LCD |
| Size | 4.3" |
| Function | |
| Sleep mode | |
| Perfusion index | |
| Multi-language | |
| Trend | 168hours |
| Alarm | |
| SpO2 alarms | SpO2 high/low |
| | PR high/low |
| | PI high/low |
| System alarms | Spo2 sensor no/off/error |
| | SpO2 search timeout/pulse |
| | SpO2 signal unstable |
| | SpO2 board failure |
| | Low perfusion |
| | Too much light |
| | Battery low |
| | System will shutdown |
| PC Interface | |
| SD card interface | S/W upgrade |
| Others | |
| Liquid Inlet Protection Grade | IPX2 |
| Power | |
| Adaptor | Input : AC 100 ~ 240V (50/60Hz) |
| | Output : DC 5V/2A |
| Rechargeable battery | 3.7V Li-ion 3,800mA |
| | Operating time : 8hrs |
| | Charging time : 4hrs |

| Standard Configurations | |
|---------------------------------|------------------------------|
| Adult SpO2 probe | 1ea |
| Operation manual | 1ea |
| Power adaptor | 1ea |
| Physical Characteristics | |
| Dimension | |
| Main unit | 84(W) x 34.5(D) x 158.5(H)mm |
| Packing (one unit) | 201(W) x 106(D) x 69(H)mm |
| Carton box (10ea) | 355(W) x 230(D) x 220(H)mm |
| Weight | |
| Main unit | 300g |
| Packing (one unit) | 620g |
| Carton box (10ea) | 6.6Kg |
| Environmental Conditions | |
| Operating temperature | 10 ~ 40°C (50 ~ 104°F) |
| Operating humidity | 5 ~ 85% non-condensing |
| Storage temperature | -20 ~ 60°C (-4 ~ 140°F) |
| Storage humidity | 0 ~ 95% non-condensing |
| Warranty | |
| Main unit | 2 years |
| Optional sensor & accessory | 1 year |
| Certificates | |
| KFDA, CE | |

Specifications : BT-720 Vital Sign Monitor

| Functional Characteristics | |
|--------------------------------------|---|
| SpO2 | |
| Display range | 0% ~ 100% |
| SpO2 display resolution | 1% |
| SpO2 accuracy | Adult/Pediatric : 70 ~ 100% ±2% |
| | Neonate : 70 ~ 100% ±3% |
| | 0 ~ 69% : unspecified |
| SpO2 alarm preset limits | Upper alarm limit : 86% ~ 100% |
| | Lower alarm limit : 85% ~ 99% |
| SpO2 alarm preset accuracy | ±1% |
| SpO2 alerting signal generates delay | No delay |
| SpO2 value refresh period | 1s/time |
| SpO2 value refresh delay | < 10s |
| Average period | Low sensitivity : 7 ~ 8s |
| | Intermediate sensitivity : 4 ~ 6s |
| | Advanced sensitivity : 2 ~ 3s |
| Alarm condition delay period | Low sensitivity : < 8s |
| | Intermediate sensitivity : < 6s |
| | Advanced sensitivity : < 3s |
| Alarm sign generates delay period | 0s |
| Pulse Rate | |
| Measuring range | 25 ~ 250bpm |
| Resolution | ±1bpm |
| Accuracy | ±2% or ±2bpm, whichever is greater |
| Display | |
| Type | Color TFT touch screen LCD |
| Size | 4.3" |
| LED | |
| Alarm indicator | Yellow & red |
| Adaptor power indicator | 1 green |
| Battery status indicator | 1 green |
| Audio | |
| Speaker | Alarm sound (45 ~ 85dB), key pressing sound |
| | PR sound |
| | Alarm sound meets the IEC60601-1-8 |
| Alarm | |
| Alarm delay | Off, 1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s |
| Data Storage | |
| Trend | 168hours, resolution : 1min |
| Function | |
| Perfusion index | |
| Multi-language | English, Turkish |
| Trend | Graphic/tabular |
| Alarm | |
| SpO2 alarms | SpO2 high/low PR high/low |
| System alarms | Communication stop/error |
| | No sensor/ sensor off |
| | Search timeout |
| | Search pulse(weak) |
| | Battery low |
| PC Interface | |
| SD card interface | S/W upgrade |
| RJ45 (LAN) | CMS |

| NiBp (Option) | |
|--|--|
| Standard compliance | IEC80601-2-30 |
| Measurement method | Automatic oscillometric method |
| Operating mode | Manual, automatic, continuous(STAT) |
| Useful life | 100,000times |
| Measurement interval in automatic mode | 1/2/3/4/5/10/15/30/60/90/120/180/240/480min |
| Typical measurement time | 20~40s |
| Normal mode measuring range (mmHg) | Systolic : Adult(40~270), Pediatric(40~200), Neonate(40~130) |
| | Mean : Adult(20~230), Pediatric(20~175), Neonate(20~100) |
| | Diastolic : Adult(10~210), Pediatric(10~162), Neonate(10~90) |
| Measurement accuracy | Maximum average error: ± 5 mmHg |
| | Maximum standard deviation: 8mmHg |
| Resolution | 1mmHg |
| Initial inflation pressure (mmHg) | Adult : 150(default), 80~240(pressure setting range) |
| | Pediatric : 100(default), 80~200(pressure setting range) |
| | Neonate : 100(default), 60~120(pressure setting range) |
| Overpressure protection point (software) | Adult: 300mmHg |
| | Pediatric: 240mmHg |
| | Neonate: 150mmHg |
| Overpressure protection point (hardware) | Adult: 320~330mmHg |
| | Pediatric: 265~275mmHg |
| | Neonate: 160~165mmHg |
| Static Pressure accuracy | ± 3 mmHg |
| Supply voltage | 10V~14VDC |
| Maximum power consumption | 3.6W |
| Quiescent current | 50mA |
| Maximum current during measurement | 180mA |
| Maximum current during inflation | 300mA |
| Alarm | Communication, selfcheck error |
| | System error, measurement timeout |
| | Cuff loose, no, leak, type error |
| | Air pressure error |
| | Over range, signal weak/unstable/saturated |
| | Over pressure |
| | Systolic, mean, diastolic high/low |
| Temperature (Option) | |
| Standard compliance | ISO80601-2-56 |
| Measurement method | Thermistor |
| Operating mode | Direct mode |
| Measuring range | 0°C ~ 50.0°C (32°F ~ 122.0°F) |
| Resolution | 0.1°C |
| Measurement accuracy | ± 0.3 °C |
| Number of channel | 1 |
| T1 alarm upper limit | 0.1°C ~ 50.0°C, 0.1°C/°F step |
| T1 alarm lower limit | 0°C ~ 49.9°C, 0.1°C/°F step |
| Temperature difference alarm upper limit | 0°C ~ 50.0°C, 0.1°C/°F step |
| Power | |
| Adaptor | Input : AC 100 ~ 240V (50/60Hz) |
| | Output : DC 15V/2.4A |
| Rechargeable battery | 11.1V Li-ion 4,400mA |
| | Operating time : 8hrs |
| | Charging time : 4hrs |

| Standard Configurations | |
|---------------------------------|----------------------------|
| SpO2 adult reusable sensor | 1ea |
| SpO2 extension cable | 1ea |
| Operation manual | 1ea |
| Power adaptor | 1ea |
| Options | |
| NiBp adult cuff | 1ea |
| NiBp extension tube | 1ea |
| Temperature sensor | 1ea |
| Physical Characteristics | |
| Dimension | |
| Main unit | 256(W) x 185(D) x 90(H)mm |
| Packing | 335(W) x 245(D) x 210(H)mm |
| Weight | |
| Main unit | <1.5Kg |
| Packing | 2.1Kg |
| Environmental Conditions | |
| Operating temperature | 10 ~ 40°C (50 ~ 104°F) |
| Operating humidity | 5 ~ 85% non-condensing |
| Storage temperature | -20 ~ 60°C (-4 ~ 140°F) |
| Storage humidity | 0 ~ 95% non-condensing |
| Warranty | |
| Main unit | 2 years |
| Optional sensor & accessory | 1 year |
| Certificates | |
| KFDA, CE | |

Specifications : BT-770 12.1" Multi-parameter Patient Monitor

| Functional Characteristics | |
|--|--|
| Display | |
| Type | Color TFT touch screen LCD |
| Size and resolution | 12.1", 800 x 600 pixels |
| LED | |
| Alarm indicator | Yellow & red |
| Adaptor power indicator | 1 green |
| Battery status indicator | 1 green |
| Audio | |
| Speaker | Alarm sound (45 ~ 85dB), key pressing sound |
| | QRS sound, PR sound |
| | Alarm sound meets the IEC60601-1-8 |
| Data Storage | |
| Trend | 168hours, resolution : 1min |
| Alarm event | 200 physiological and 100 technical alarm events |
| NiBp measurement result | 1,000 groups |
| Function | |
| Multi-language | English, France, Spanish, Turkey |
| Trend | Graphic/tabular |
| Alarm | |
| Mode | Visual, audible, information, parameter flashing |
| Alarm delay | Off, 1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s |
| Pause duration | 1, 2, 3, 4, 5, 10, 15min or permanent |
| System | Low battery |
| Interface | |
| Auxiliary | Nurse call |
| RJ45 (LAN) | CMS |
| USB | S/W upgrade |
| ECG | |
| Standard compliance | IEC60601-2-27 |
| Lead type | 3Lead : I, II, III |
| | 5Lead : I, II, III, aVR, aVL, aVF, V |
| Display sensitivity (gain) | Auto, 1.25, 2.5, 5, 10, 20mm/mV |
| Wave sweep speed | 12.5, 25, 50mm/s |
| Band width | Diagnostic mode : 0.05 ~ 130Hz |
| | Monitoring mode : 0.5 ~ 40Hz |
| | Surgery mode : 1 ~ 25Hz |
| | Strong filter mode : 5 ~ 20Hz |
| CMRR | > 100dB |
| Notch | 50/60Hz (can be set on or off) |
| Differential input | > 5MΩ |
| Electrode polarization voltage range | ±400mV |
| Baseline recovery time | < 5s after defibrillation (monitor and surgery mode) |
| Calibration signal | 1mV (peak-peak), accuracy ±3% |
| Lead-off detection current | Measuring electrode : < 0.1μA |
| | Drive electrode : < 1μA |
| HR measuring range | Adult : 15 ~ 300bpm |
| | Pediatric/Neonate : 15 ~ 350bpm |
| HR measuring resolution | 1bpm |
| HR measurement accuracy | ±1bpm or ±1%, whichever is greater |
| HR accuracy & response to irregular rhythm | Ventricular bigeminy : 80±1bpm |
| | Slow alternating ventricular bigeminy : 60±1bpm |
| | Rapid alternating ventricular bigeminy : 120±1bpm |
| | Bidirectional systoles : 90±2bpm |
| HR time to alarm for tachycardia | 0.5/1/2mV, 206bpm ventricular tachycardia : < 10s |
| | 1/2/4mV, 195bpm ventricular tachycardia : < 5s |

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| HR alarm upper limit (bpm) | Adult : 16 ~ 300, 1bpm step Pediatric/Neonate : 16 ~ 350, 1bpm step |
| HR alarm lower limit (bpm) | Adult : 15 ~ 299, 1bpm step Pediatric/Neonate : 15 ~ 349, 1bpm step |
| Pacing pulse identification | Detection range : $\pm 2\text{mV}$ ~ $\pm 700\text{mV}$ Pulse width : 0.2ms ~ 2.0ms |
| Pacing pulse average HR | 15s data |
| Pacing pulse interval of HR Refreshing | Every second |
| Pacing pulse HR change response time | $\leq 10\text{sec}$ |
| Pacing pulse tall T-wave suppression | 2mV |
| Alarm | Communication, configuration, selfcheck error |
| | Lead off |
| | HR high/low, PVCs high |
| | Asystole, VF/VTA, R on T, Tachycardia/bradycardia, PVC frequent/couplet/singlr/bigeminy/trigeminy, Miss Beat |
| | Pacemaker not capture/work Signal weak, ST-I, II, III high/low |
| Respiration | |
| Measurement method | Thoracic electrical bio impedance method |
| Measuring lead | Lead RA-LA, RA-LL |
| Wave gain | X0.5, x1, x2 |
| Respiratory impedance range | 0.2 ~ 3 Ω |
| Base line impedance | 500 ~ 2,000 Ω |
| Gain | 10 grades |
| Wave sweep speed | 6.25mm/s, 12.5mm/s, 25mm/s |
| Measurement accuracy | $\pm 2\text{rpm}$ |
| Measurement range | 0 ~ 120rpm |
| Alarm | RR high/low |
| | Apnea Respiration artifact |
| Temperature | |
| Standard compliance | ISO80601-2-56 |
| Measurement method | Thermistor |
| Measuring range | 0°C ~ 50.0°C (32°F ~ 122.0°F) |
| Resolution | 0.1°C |
| Measurement accuracy | $\pm 0.3^\circ\text{C}$ |
| Number of channel | 2 |
| T1/T2 alarm upper limit | 0.1°C ~ 50.0°C, 0.1°C/°F step |
| T1/T2 alarm lower limit | 0°C ~ 49.9°C, 0.1°C/°F step |
| Temperature difference alarm upper limit | 0°C ~ 50.0°C, 0.1°C/°F step |
| Alarm | T1, T2 Sensor off |
| | T1/T2 high/low, TD high |
| NiBp | |
| Standard compliance | IEC80601-2-30 |
| Measurement method | Automatic oscillometric method |
| Operating mode | Manual, automatic, continuous(STAT) |
| Useful life | 100,000times |
| Measurement interval in automatic mode | 1/2/3/4/5/10/15/30/60/90/120/180/240/480min |
| Typical measurement time | 20~40s |
| Normal mode measuring range (mmHg) | Systolic : Adult(40~270), Pediatric(40~200), Neonate(40~130) |
| | Mean : Adult(20~230), Pediatric(20~175), Neonate(20~100) |
| | Diastolic : Adult(10~210), Pediatric(10~162), Neonate(10~90) |
| Measurement accuracy | Maximum average error: $\pm 5\text{mmHg}$ |
| | Maximum standard deviation: 8mmHg |
| Resolution | 1mmHg |
| Initial inflation pressure (mmHg) | Adult : 150(default), 80~240(pressure setting range) |
| | Pediatric : 100(default), 80~200(pressure setting range) |
| | Neonate : 100(default), 60~120(pressure setting range) |

| | |
|--|--|
| Overpressure protection point (software) | Adult: 300mmHg Pediatric: 240mmHg Neonate: 150mmHg |
| Overpressure protection point (hardware) | Adult: 320~330mmHg Pediatric: 265~275mmHg Neonate: 160~165mmHg |
| Static Pressure accuracy | ±3mmHg |
| Supply voltage | 10V~14VDC |
| Maximum power consumption | 3.6W |
| Quiescent current | 50mA |
| Maximum current during measurement | 180mA |
| Maximum current during inflation | 300mA |
| Alarm | Communication, selfcheck, CFG error System error, measurement timeout Cuff loose, no, leak, type error Air pressure error Over range, signal weak/unstable/saturated Over pressure Module reset failed Systolic, mean, diastolic high/low |
| SpO2 | |
| Standard compliance | ISO80601-2-61 |
| Display range | 0% ~ 100% |
| SpO2 display resolution | 1% |
| SpO2 accuracy | Adult/Pediatric : 70 ~ 100% ±2% Neonate : 70 ~ 100% ±3% 0 ~ 69% : Unspecified |
| Wave sweep speed | 12.5mm/s, 25mm/s |
| Wave mode | Scan, fill |
| Pulse volume | 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 level |
| SpO2 alarm preset limits | Upper Alarm Limit : 86% ~ 100% Lower Alarm Limit : 85% ~ 99% |
| SpO2 alarm preset accuracy | ±1% |
| SpO2 alerting signal generates delay | No Delay |
| SpO2 value refresh period | 1s/time |
| SpO2 value refresh delay | < 10s |
| Average period | Low Sensitivity : 7 ~ 8s Intermediate Sensitivity : 4 ~ 6s Advanced Sensitivity : 2 ~ 3s |
| Alarm condition delay period | Low Sensitivity : < 8s Intermediate Sensitivity : < 6s Advanced Sensitivity : < 3s |
| Alarm sign generates delay period | 0s |
| Perfusion index | 0.05 ~ 20% |
| PR Measurement Range | 25 ~ 254bpm |
| PR Resolution | ±1bpm |
| PR Measurement accuracy | ±2% or ±2bpm, whichever is greater |
| Alarm | Communication stop/error No sensor/ sensor off Search timeout Search pulse(weak) SpO2, RR high/low |
| IBP (Option) | |
| Standards compliant | IEC60601-2-34 |
| Pressure measurement range | -50 ~ 400 mmHg |
| Pressure measurement accuracy | ±3 mmHg or±2%, whichever is greater |
| Pressure resolution | 1 mmHg |
| PR measurement range | 35 ~ 250 bpm |

| | |
|---|--|
| PR measurement accuracy | ±3bpm |
| PR resolution | 1bpm |
| Transducer sensitivity | 5μV/V/mmHg |
| Transducer resistance range | 300-5,000Ω |
| Supply voltage | +12VDC |
| Maximum power consumption | ≤5W |
| Scan speed | 12.5mm/s, 25mm/s |
| Alarm | IBP1, 2 communication stop/error |
| | IBP1, 2 sensor off |
| | Art-sys, PA-sys, P1-sys, P2-sys high |
| | Art-dia, PA-dia, P1-dia, P2-dia high |
| | Art-mean, PA-mean, CVP-mean, LAP-mean, RAP-mean, ICP-mean, P1-mean, P2-mean high |
| EtCO2 Mainstream & Sidestream (Option) | |
| Measurement parameters | EtCO2、FiCO2、AwRR |
| Measuring range | EtCO2 : 0~150mmHg, AwRR : 0~150rpm |
| Resolution | EtCO2/FiCO2 : 1mmHg, AwRR : 1rpm |
| Apnea delay | 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s |
| Operating mode | Standby, measure |
| O2 compensation | Low, mid, high |
| N2O compensation | On, off |
| Alarm limit | EtCO2 lower limit : 0~149mmHg |
| | EtCO2/FiCO2 upper limit : 1~150mmHg |
| | AWRR lower limit : 0~119rpm |
| | AWRR upper limit : 1~120rpm |
| Alarm | Communication stop/error |
| | CO2 sensor off/error |
| | O2 sensor error/replace |
| | adaptor/sampling line no/check |
| | Parameter accuracy error |
| | O2, Air calibration error |
| | S/W, H/W error |
| | Motor accuracy error |
| | CO2 factory calibration error |
| | Adaptor, sampling line replace |
| | O2 port error |
| | CO2, O2, N2O out of accuracy |
| | CO2 temp., pressure out of accuracy |
| | CO2 zero required |
| | CO2 zeroing/sleeping |
| | CO2 module calibrating/calibration error |
| EtCO2, FiCO2, AWRR high/low | |
| Apnea | |
| C.O. (Cardiac Output : Option) | |
| Measurement range | C.O. : 0.2 ~ 20 L/min |
| | BT : 23 ~ 45°C±0.5 °C |
| | IT : 0 ~ 20°C±0.5 °C |
| Resolution factor | C.O. : 0.1L/min BT, IT : 0.1°C |
| Accuracy | C.O. : ±5% or ±0.1 L/min, subject to the bigger one BT, IT : ±0.1°C (sensor exclusive) |
| Scope of alarm limit | BT high limit : (Low limit +0.1) ~ 43°C BT low limit : 23.0 ~ (high limit -0.1) °C Step size : 0.1°C |
| Alarm | BT sensor off |
| | BT high/low |
| | C.O. high |

| Printer (Option) | |
|----------------------------------|---|
| Type | Thermal dot array |
| Print speed | 12.5, 25, 50mm/s |
| Paper size | 58mm(W) x 42m |
| Power | |
| Adaptor | Input : AC 100 ~ 240V (50/60Hz) Output : DC 15V/2.4A |
| Consumption | 13.5W |
| Rechargeable battery | 11.1V Li-ion 4,400mA Operating Time : 5hrs Charging Time : 4hrs |
| Standard Configurations | |
| ECG cables and lead wire | 1ea(5lead) |
| ECG electrode for adult | 1pack(25pcs) |
| SpO2 adult reusable sensor | 1ea |
| SpO2 extension cable | 1ea |
| NiBp adult cuff | 1ea |
| NiBp extension tube | 1ea |
| Temperature sensor | 1ea |
| Power adaptor | 1ea |
| Bracket | 1ea |
| Operation manual | 1ea |
| Options (Function) | |
| IBP | Sensor cable & package |
| EtCO2 Mainstream (Bistos) | Airway adaptor & module |
| EtCO2 Sidestream (Bistos) | Sampling tube |
| EtCO2 IRMA Mainstream (Masimo) | Airway adaptor & module |
| EtCO2 ISA Sidestream (Masimo) | Sampling tube |
| C.O. | Sensor cable |
| Printer | Printer & paper |
| Cart | |
| Options (Accessory) | |
| ECG cables and lead wire | 5/3 lead |
| ECG electrode | adult/neonate |
| SpO2 reusable sensor | adult/pediatric/neonate |
| SpO2 disposable sensor | adult/pediatric/neonate |
| Skin & rectal temperature sensor | adult/pediatric/neonate |
| NiBp cuff | adult(27~35cm)/pediatric(14~21.5cm)/neonate(4*9cm) |
| Physical Characteristics | |
| Dimension | |
| Main unit | 320(W) x 65(D) x 250(H)mm |
| Packing | 400(W) x 350(D) x 290(H)mm |
| Weight | |
| Main unit | < 2.8Kg |
| Packing | 4.6Kg |
| Environmental Conditions | |
| Operating temperature | 10 ~ 40°C (50 ~ 104°F) |
| Operating humidity | 5 ~ 85% non-condensing |
| Storage temperature | -20 ~ 60°C (-4 ~ 140°F) |
| Storage humidity | 0 ~ 95% non-condensing |
| Warranty | |
| Main unit | 2 years |
| Optional sensor & accessory | 1 year |
| Certificates | |
| KFDA, CE | |



Patient Monitoring Systems

Patient Monitor
Vital Sign Monitor
Pulse Oximeter

 **bistos**

Patient Monitor

BT-780

15.6"



BT-770

12.1"



BT-740

8.4"



Patient Monitor

- 15.6," 12.1," 8.4 " color TFT touch screen
- ECG, Resp., SpO₂, NIBP, Temp., CO₂, IBP, Multi-gas, C.O., Masimo SpO₂
- Precise ECG measurement with pacemaker detection
- ST segment and 16 types 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 (UP TO MAX 30)
- Option for WIFI



Touch screen



Dual Screen Central monitoring station



Ultra Slim design



Smart hook/Stand

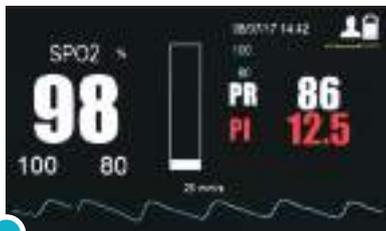


IBP, CO, Printer module

Vital Sign Monitor



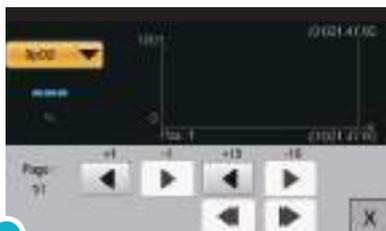
Portable design



SpO2



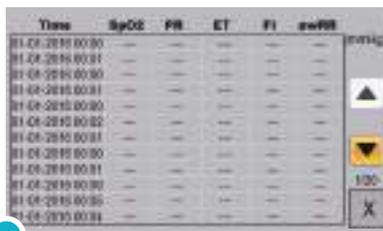
SpO2+NIBP



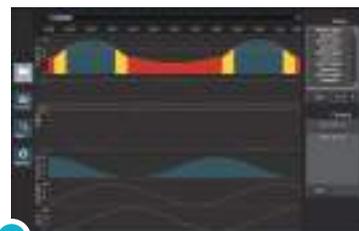
Trend Graphic

BT-720

- 4.3" color touch screen
- SpO2, Pulse, NIBP, Masimo SpO2
- Short/long trend graphic / trend table display
- Audio & visual alarm, adjustable alarm limit
- Automatic brightness adjustment
- Accurate SpO2 performance during motion and low perfusion
- Perfusion Index data / bar graph display
- Pitch tone variation for pulse rate
- Internal memory for data storage
- SD card for easy software upgradation
- Over 8 hours continuous working on rechargeable lithium-ion battery
- Specialized PC software for data review and analysis
- Option for Masimo SpO2, NIBP, Temp.
- HL7 export to clinical information systems

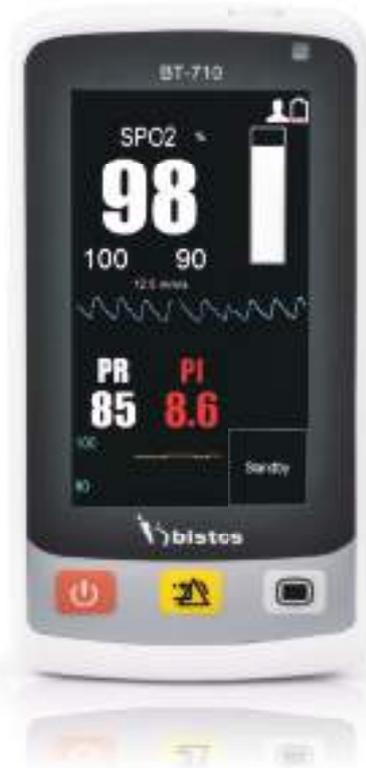


Trend Tabular



PC Viewer Software

Pulse Oximeter

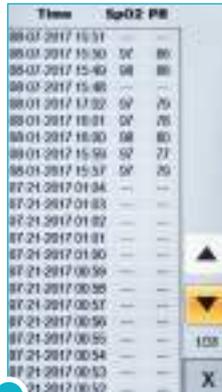


BT-710

- 4.3" color touch screen
- Handheld style
- SpO₂, Pulse
- Accurate SpO₂ performance during motion and low perfusion
- Specialized PC software for data review and analysis
- Over 8 hours continuous working on rechargeable lithium-ion battery
- 5V DC input with convenient Micro-USB charger
- Battery can be charged by external USB battery
- Suitable for adult, pediatric and neonate
- Option for ETCO₂



Handheld size



Trend Tabular



Protective case (option)



Wallmount Bracket



BT-750

- 10.4" color TFT LCD
- ECG, Resp., SpO₂, NIBP, Temp., CO₂
- Light weight for portable use (3kg)
- 72 hours of tabular and graphic trend data
- Multi Language Support
- Rolling stand and wall mount
- Central Monitoring System

BISTOS Patient Monitor Technical Specification

| Model | | BT780 / BT-770/ BT-740 | | |
|----------------------------|-------------------------------|--|--------------------------|-------------------------|
| Category | | Patient Monitor | | |
| Display | | 15.6" Color Touch Screen | 12.1" Color Touch Screen | 8.4" Color Touch Screen |
| ECG | Lead Type | 3/5 Lead | | |
| | Gain Selection | x0.125, x0.25, x0.5, x1, x2, auto | | |
| | Sweep Speed (mm/s) | 12.5, 25, 50 | | |
| | Bandwidth : Diagnostic Mode | 0.05-100Hz | | |
| | Monitoring Mode | 0.5-40Hz | | |
| | Surgery Mode | 1-25 Hz | | |
| | Heart Rate Range (bpm) | Adult: 15-300 Pediatric/Neonate: 15-350 | | |
| Respiration | Method | Trans-thoracic impedance | | |
| | Measurement Range | 0-120 rpm | | |
| | Sweep Speed (mm/s) | 6.25, 12.5, 25 | | |
| SpO ₂ | Measurement Range | 0-100% | | |
| | Accuracy (70-100%) | Adult/Pediatric | ±2% | |
| | | Neonate | ±3% | |
| | Accuracy (0-69%) | unspecified | | |
| | Perfusion Index | 0.05-20% | | |
| Pulse Rate Range (bpm) | 25-250 | | | |
| NIBP** | Method | Automatic Oscillometric | | |
| | Operation Mode | Manual/Auto/STAT | | |
| | Parameter | Systolic Diastolic, Mean | | |
| | Systolic Range (mmHg) | Adult | 40-270 | |
| | | Pediatric | 40-200 | |
| | | Neonate | 40-130 | |
| | Diastolic Range (mmHg) | Adult | 10-210 | |
| | | Pediatric | 10-162 | |
| | | Neonate | 10-90 | |
| Mean Range (mmHg) | Adult | 20-230 | | |
| | Pediatric | 20-175 | | |
| | Neonate | 20-100 | | |
| Temperature ** | Range | 0-50cC(41 to122 F°) | | |
| | Parameter | T1, T2 and TD | | |
| IBP * | Channel | 2 Channel / 4 Channel | | |
| | Range (mmHg) | -50 to 400 | | |
| Printer * | Type | Thermal dot array | | |
| | Print Speed (mm/s) | 12.5, 25, 50 | | |
| | Paper size (mm) | 50mm x 2m | | |
| CO ₂ * | Sidestream | Masimo ISA/Bistos | | |
| | Mainstream | Masimo IRMA/Bistos | | |
| Multi-gas/O ₂ * | Masimo ISA/Masimo IBMA/Bistos | | | |
| SpO ₂ -Masimo * | Masimo SPO ₂ | | | |
| C.O. * | Method | Thermodilution | | |
| | Range | 0.2- 20L/min | | |
| Battery | Type (capacity) | Li-ion(4400mAh) | | |
| | Run Time | 5hour | | |
| | Charging Time | 4hour | | |
| PC Software Interface | RJ45, USB, Nursing call | | | |
| Warranty | 2year | | | |

* Option ** Option (BT-720)

| BT-750 | BT-720 | BT-710 |
|---------------------------|---------------------------|-------------------------|
| Patient Monitor | Vital Sign Monitor | Handheld Pulse Oximeter |
| 10.4" Color LCD | 4.3" Touch LCD | 4.3" Touch LCD |
| 3/5 lead | | |
| 5, 10, 20mm/mV | | |
| 12.5, 25, 50 | | |
| | | |
| Adult : 20 - 250 | | |
| Adult : 20 - 250 | | |
| Trans-thoracic impedance | | |
| 0-150 rpm | | |
| 6.25, 12.5, 25 | | |
| 0-100 % | 0-100 % | 0-100 % |
| ±2% | ±2% | ±2% |
| ±3% | ±3% | ±3% |
| unspecified | unspecified | unspecified |
| 0.05-20% | 0.05-20% | 0.05-20% |
| 20-250 | 25-250 | 25-250 |
| Automatic Oscillometric | Automatic Oscillometric | |
| Manual / Auto / STAT | Manual / Auto / STAT | |
| Systolic, Diastolic, Mean | Systolic, Diastolic, Mean | |
| 50-255 | 30-280 | |
| 50-255 | 30-230 | |
| 30-130 | 30-145 | |
| 30-220 | 10-220 | |
| 30-220 | 10-165 | |
| 20-100 | 10-105 | |
| 40-235 | 10-240 | |
| 40-235 | 10-175 | |
| 25-120 | 10-115 | |
| 10-45°C (50 to 113 °F) | 0-50°C (41 to 122 °F) | |
| T1, T2 | T1, T2 and TD | |
| 2 Channel | | |
| -50 to 300 | | |
| Thermal dot array | | |
| 50 | | |
| 50.8 | | |
| Respironics | | |
| | | |
| | Masimo SpO ₂ | |
| | | |
| Li-ion (2200mAh) | Li-ion (4400mAh) | Li-ion (3000mAh) |
| 4 hour | 8 hour | 8 hour |
| 4 hour | 4 hour | 4 hour |
| RJ45*, RS232C | RJ45, SD card slot | SD card slot |
| 2 year | 2 year | 2 year |

BIO SIGNAL TOTAL SOLUTION

Bistos Co., Ltd. (Headquarter)

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302,
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Tel. +1-949-614-8745

Fax. +1-949-614-8745

Site. www.bistosamerica.com

E-mail. info@bistosamericainc.com

EC Declaration of Conformity

We, **Bistos Co., Ltd.**, (7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea) hereby declare that medical device described hereafter:

Product : Pulse Oximeter

Model No. : BT-710

GMDN code : 45607, Pulse oximeter, battery-powered

Accessories : SpO2 sensor (Model no. U403-01)

Classification: IIb (according to Rule 10 of Annex IX of Council Directive 93/42/EEC as amended by 2007/47/EC)

EC Representative : Obelis s.a. (Bd. Général Wahis 53 1030 Brussels / BELGIUM)

- is in conformity with the essential requirements and provisions of Council Directive 93/42/EEC as amended by 2007/47/EC.
- is subject to the procedures set out in Annex II excluding section 4 of Council Directive 93/42/EEC as amended by 2007/47/EC under the supervision of Notified Body 2460, DNV Product Assurance AS: Veritasveien 3 1363 Høvik Norway. (Certificate no.: 243269-2017-CE-KOR-NA-PS Rev. 5.0)
- is in conformity with the harmonized standards.

This declaration is supported by following Quality Management System certification:

Certification No. 243275-2017-AQ-KOR-NA-PS Rev.4.0

- is complies ISO 13485:2016/NS-EN ISO 13485:2016 requirements
- is issued by DNV Product Assurance AS (Veritasveien 3, N-1363 Høvik, Norway)

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Issue: Gyeonggi-do, Korea

Date of Issue: August 23, 2021

Signed for and behalf of Bistos Co., Ltd



Hyesun Jeong, RA

EC Declaration of Conformity

We, **Bistos Co., Ltd.**, (7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea) hereby declare that medical device described hereafter:

Product : Patient monitor

Model No. : BT-720, BT-740 and BT-770

GMDN code : 33586, Single-patient physiologic monitoring system

Classification: IIb (according to Rule 10 of Annex IX of Council Directive 93/42/EEC as amended by 2007/47/EC)

EC Representative : Obelis s.a. (Bd. Général Wahis 53 1030 Brussels / BELGIUM)

- is in conformity with the essential requirements and provisions of Council Directive 93/42/EEC as amended by 2007/47/EC.
- is subject to the procedures set out in Annex II excluding section 4 of Council Directive 93/42/EEC as amended by 2007/47/EC under the supervision of Notified Body 2460, DNV Product Assurance AS: Veritasveien 3 1363 Høvik Norway. (Certificate no.: 243269-2017-CE-KOR-NA-PS Rev. 5.0)
- is in conformity with the harmonized standards.

This declaration is supported by following Quality Management System certification:

Certification No. 243275-2017-AQ-KOR-NA-PS Rev.4.0

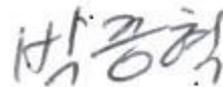
- is complies ISO 13485:2016/NS-EN ISO 13485:2016 requirements
- is issued by DNV Product Assurance AS (Veritasveien 3, N-1363 Høvik, Norway)

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Issue: Gyeonggi-do, Korea

Date of Issue: October 18, 2021

Signed for and behalf of Bistos Co., Ltd



Jonghyuk Park, PRRC



EC CERTIFICATE

Full Quality Assurance System

Certificate No.: 243269-2017-CE-KOR-NA-PS Rev. 5.0

Project No.: PRJC-533956-2015-MSL-KOR

Valid Until: 01 September 2023

This is to certify that the quality system of:

Bistos Co., Ltd.

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

For design, production and final product inspection/testing of:

Monitoring devices of vital physiological parameters and Utilising non-ionizing radiation

Has been assessed with respect to:

The conformity assessment procedure described in Annex II excluding section 4 of Council Directive 93/42/EEC on Medical Devices, as amended

and found to comply

Place and date:
Høvik, 30th April 2021

Check Validity



For the issuing office:
Notified Body 2460
DNV Product Assurance AS

Hazem Tinawi
Technical Reviewer

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.

NOTIFIED BODY 2460: DNV Product Assurance AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, www.dnv.com

ICP-4-5-i1-MDD-f2, rev.0

Further details of the product(s) and conditions for certification are given overleaf.

Jurisdiction

Application of Council Directive 93/42/EEC of 14 June 1993, adopted as “Forskrift om Medisinsk Utstyr” by the Norwegian Ministry of Health and Care Services.

Certificate history:

| Revision | Description | Issue Date |
|------------|--|-----------------------------------|
| 0.0 | Replaces certificate EU1308401, Rev2.0 (NB 0470) following transfer of Notified Body functions to DNV GL Nemko Presafe AS (NB 2460) | 01 September 2017 |
| 1.0 | EU Rep change | 13 April 2018 |
| 2.0 | Re-certification for Fetal monitor and Neonatal Phototherapy unit (BT-300, BT-350, FM-20, Biocare FM-1, BT-400) Scope extension for pulse oximeter and patient monitor (BT-710, BT-720, BT-740, BT-770) The accessories (Feotal Doppler system probe and Cardiotocograph transducers) are removed (AY-DOP-300, AY-DOP-350, AY-UC-300, AY-UC-350) | 01 September 2018 |
| 3.0 | Editorial change | 13 February 2020 |
| 4.0 | Scope extension to new model (BT-780) | 26 April 2021 |
| 5.0 | Editorial change in model name (typo error) | 30th April 2021 |

Products covered by this Certificate:

| Product Description | Product Name | Class |
|----------------------------|---|-------|
| Fetal monitor | <ul style="list-style-type: none"> ▪ BT-300 ▪ BT-350 ▪ FM-20 ▪ Biocare FM-1 | IIa |
| Neonatal Phototherapy unit | <ul style="list-style-type: none"> ▪ BT-400 | IIa |
| Pulse Oximeter | <ul style="list-style-type: none"> ▪ BT-710 | IIb |
| Patient Monitor | <ul style="list-style-type: none"> ▪ BT-720 ▪ BT-740 ▪ BT-770 ▪ BT-780 | IIb |

The complete list of devices is filed with the Notified Body

Sites covered by this certificate

| Site Name | Address |
|------------------|--|
| Bistos Co., Ltd. | 7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea |

EU Representative

OBELIS S.A, Bd. General Wahis, 53, 1030 Brussels, Belgium



Terms and conditions

The certificate is subject to the following terms and conditions:

- Any producer (see 2001/95/EC for a precise definition) is liable for damage caused by a defect in his product(s), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform the Notified Body of any intended updating of the quality system and the Notified Body will assess the changes and decide if the certificate remains valid.
- Periodical audits will be held, in order to verify that the Manufacturer maintains and applies the quality system. the Notified Body reserves the right, on a spot basis or based on suspicion, to pay unannounced visits.

The following may render this Certificate invalid:

- Changes in the quality system affecting production.
- Periodical audits not held within the allowed time window.

Conformity declaration and marking of product

When meeting with the terms and conditions above, the producer may draw up an EC declaration of conformity and legally affix the CE mark followed by the Notified Body identification number.

End of Certificate

Management System Certificate

Certificate No.: 243275-2017-AQ-KOR-NA-PS Rev 4.0 Initial Certification Date: 12 August 2004 Valid Until: 09 September 2024

This is to certify that the quality system of:

Bistos Co., Ltd.

7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

has been found to conform to the Quality Management System standard:

ISO 13485:2016/NS-EN ISO 13485:2016

This certificate is valid for the following scope:

Design and Development, Manufacturing, Sales, Distribution, and Servicing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump.

Place and date:
Høvik, 23 June 2021

Check Validity



For the issuing office:
DNV Product Assurance AS

Tone Kolpus
Tone Elise Kolpus
Lead Auditor

icate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.

| Site Name | Address | Site Specific Scope |
|-------------|--|--|
| Head Office | 7th Fl., A Bldg., Woolim Lions Valley 5-cha, 302, Galmachi-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea | Design and Development, Sales, Distribution, and Servicing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump. |
| Factory | 116~122ho, Jungang Induspia 3, 27, Sagimakgol-ro 105beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea | Manufacturing of Ultrasound Doppler system, Fetal monitor, Phototherapy, Patient Monitor, Pulse Oximeter, Incubator, Head-worn light, Infant Warmer and Electric Breast Pump. |

