

General Catalogue



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- قابلیت نمایش و پرینت ۱۲ کاناله به صورت همزمان
- دارای مانیتور رنگی ۵ اینچ به صورت Touch Screen
- ${
 m USB}$ و ذخیره سازی بر روی ${
 m ECG}$ تست ۲۰۰۰ و دخیره سازی بر دارای حافظه داخلی جهت ذخیره و د
 - (Base Line, Muscle , AC , Low Pass) دارای فیلترهای چهارگانه
 - ـ دارای قابلیت تشخیص پیس میکر
 - دارای تشخیص اتوماتیک آریتمی
 - ${
 m ECG}$ دارای تشخیص اتوماتیک قطع لیدهای سیگنال -
 - (HIS) دارای قابلیت اتصال به سیستم شبکه داخلی بیمارستان دارای
 - محافظ در برابر الکتروشوک

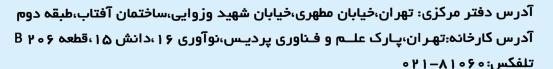


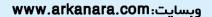
الكتروكارديوگراف ۱۲ كاناله با قابليت تفسير البرز هه۲۰

مشخصات فنى











12 ch ECG







Interpretive 12 Channel Resting ECG

CardioCare 2000

- * Convenient A4 size print-outs allow for easy chart filing
- * Copy function allows varied printouts from single patient sample
- *Grid function allows you to use low cost plain fax paper
- *One-touch operation (monitoring, recording mode)
- * Accurate simultaneous 12 channel cardiac data acquisition
- Over 130 kinds of interpretation results based on advanced Minnesota code
- High-quality 12ch interpretive ECG at a 3ch price
- Free S/W upgrade via internet





	T		
ECG leads	12 lead, 12 channel simultaneous ECG and acquisition		
Dimension	296 (W) X 305.5 (H) X 92.5 (D) mm, approx. 2.98 kg		
Recording channel	3, 6, 12 channel and 1 channel (60 sec)		
Sensitivity	5, 10, 20, auto (I~aVF:10, V1~V6:5) mm/mV		
Printing speed	12.5, 25, 50 mm/s		
Sampling rate	500 samples/sec		
Filters	AC (50/60 Hz, -20 dB or better)		
	Muscle (25 ~ 35 Hz, -3 dB or better)		
	Base line drift (0.1 Hz, -3 dB or better)		
	Low pass filter (off, 40 Hz, 100 Hz, 150 Hz)		
Display	2 x 16 character LCD display		
LCD display	Sensitivity, speed, filter status, HR, printing form, rhythm lead		
LED indicator	Signal quality, power source, battery		
Keyboard	Membrane keyboard, alphanumeric and symbol available		
Patient Data	ID, name, age, sex, height, weight		
Basic measurement	Heart rate, PR int, QRS dur, QT/QTc, P-R-T axis		
Recorder	Thermal print head, roll paper		
	Report papers: (width x length)		
	- A4 : 215mm(8.5") x 297mm(11.7")		
	- Letter: 215mm(8.5") x 280mm(11")		
	Resolution - vertical:8 dot/mm		
	- horizontal:16 dot/mm		
Electrical	Internal noise:20 µV(p-p)max		
	Input circuit:Floating input		
	Isolated and defibrillation protected		
	Input impedance:≥10 MΩ		
	Input voltage range:≥±5 mV		
	Common Mode Rejection:≥+100 dB		
	DC offset voltage:≥±300 mV		
	Time constant:3.2 sec		
	Patient leakage current: < 10 μA		
	Frequency response 0.05 ~ 150 Hz		
Signal quality control	Disconnected lead detection		
Power	Power supply:AC or built-in battery (option)		
Olici	Power requirement:100 - 240 VAC, 50/60 Hz, 1.0 - 0.5 A		
Rattory canacity	Power consumption:60W max		
Battery capacity	1 hour of normal use (approximately 100 automatic ECG printouts)		
Communication	PC connection with RS-232 interface and LAN		
Safety conformity	Class I, Type BF, CE, FDA, KFDA, CFDA		
Environment	Operation humidity:30 ~ 85 %		
	Operation Temperature:10 ° ~ 40 °C		
	Atmospheric pressure:70 ~ 106 KPa		
Standard accessory	Power cord 1 EA, Patient cable 1 EA, Limb 1 set(4 EA),		
	Chest ball 1 set(6 EA), Chart paper 1 EA, Operation manual 1 EA		
Options			

^{*} Specifications can be changed without prior notification.



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Affordable, yet Powerful 12CH Resting ECG as ever

12 Channel Interpretive Resting ECG with 7" Full Touch Screen Color TFT LCD

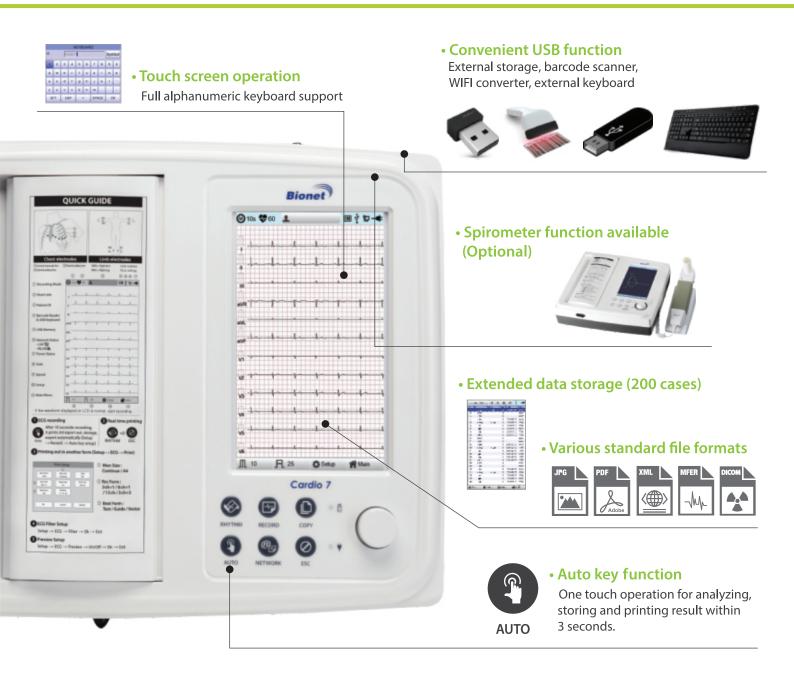




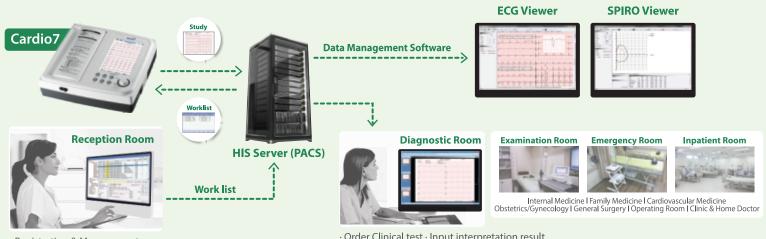








• Direct and bidirectional connectivity with PACS via DICOM 3.0 standard (Optional)

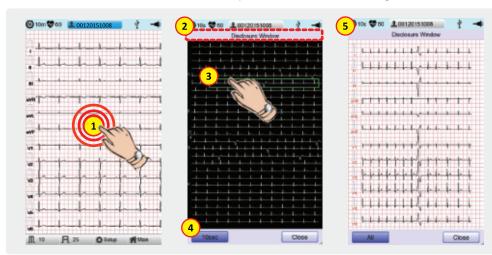


· Registration & Management of patient data

- · Order Clinical test · Input interpretation result
- · Review examination result

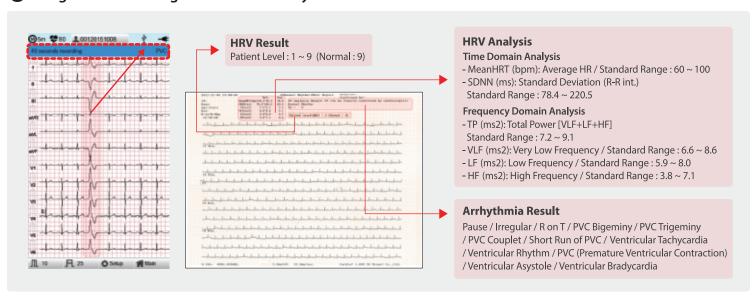
Full Disclosure Function

'Disclosure' function shows 5-minute ECG data which was already saved on the internal storage. This function is used to check the suspected ECG data which might have been missed.



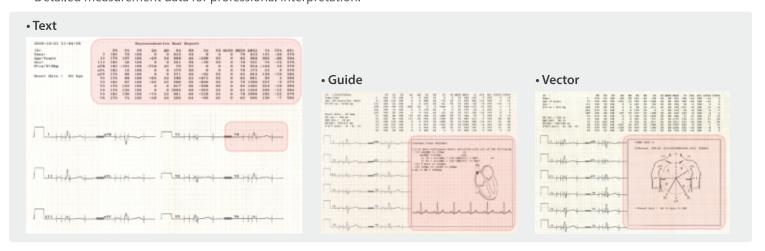
- 1. Press any point of the LCD screen for over 3 seconds to execute this function.
- 2. The screen will be changed to the 'Disclosure Window' which shows the 5-minute stored ECG data of the selected rhythm lead.
- 3. Select an area of interest of diagnosis.
- 4. Click the '10-second' button on the left corner of screen.
- 5. You will see 12CH ECG of the selected data.

Long Term Recording & Automatic Arrhythmia Detection



Special Beat Reports for More Detailed and Precise Interpretation

Detailed measurement data for professional interpretation.



ECG leads	12 channel simultaneous ECG and acquisition	
Dimensions	300 (W) x 299 (H) x 123 (D) mm , Approx. 4 kg	
Record	Auto, Rhythm, Disclosure , Arrhythmia Detect	
Recording channel	3CH+1RHY, 3CH+3RHY, 6CH+1RHY, 12CH, 1CH long time (1 min, 3 min, 5 min, 10 min) and special reports (text, guide, vector)	
Sensitivity	2.5, 5, 10, 20, auto (I~aVF: 10, V1~V6: 5) mm/mV	
Printing speed	5, 12.5, 25, 50, 100 mm/s	
Sampling rate	2,000 samples per second	
Filters	AC (50/60 Hz, -20 dB or better), Muscle (25~35 Hz, -3 dB or better), Base line drift (0.05, 0.1, 0.2 Hz, -3 dB or better), Low pass filter (off, 40 Hz, 100 Hz, 150 Hz	
Display	7" color TFT wide display (800 x 480)	
Monitor display	HR, ID, date, AC or battery state, sensitivity, speed, number of saved data, printing form, rhythm lead	
User interface	Touch screen, hot key, barcode scanner, USB keyboard	
Patient data	ID, name, age, sex, height, weight, smoke, race	
Basic measurement	Heart rate, PR, QRS, QT/QTc, P-R-T axis	
Recorder	Thermal print head, roll paper Report papers: (width x length) - A4: 215 mm (8.5") x 297 mm (11.7") - Letter: 215 mm (8.5") x 280 mm (11") Resolution - vertical: 8 dot/mm - horizontal: 16 dot/mm	
Electrical	Internal noise: 20 uV(p-p)max / Input impedance: More than 50 MΩ Input voltage range: ± 5 mV / CMRR: Greater than 105 dB DC offset voltage: ≥ ± 400 mV Patient leakage current: < 10 uA / Frequency response: 0.05 ~ 150 within –3 dB Isolated, defibrillation and ESU protected	
Signal quality control	Pacemaker pulse detection lead fault detection, signal saturation detection	
ECG data storage	Internal storage for 200 ECGs and external USB flash drive	
Power	Input: 100-240 VAC, 2-1 A, 50/60 Hz Output: 60 VA max	
External link	LAN, 2 USB Port, WiFi(Option)	
File format	PDF, JPG, XML, MFER, DICOM	
Battery	Type: Replaceable and rechargeable Lithium Ion Capacity: 6 hours of continuous operation without printing or Approx. 3 hours of 200 ECG printouts	
Communication	RS232, LAN, Wi-Fi, USB flash drive, USB barcode scanner	
Safety conformity	conformity Class I, Type CF, CE, FDA, KFDA, CFDA, NCC	
Environment	Operating humidity: 30~85% / Operating temperature: 10~40°C	
Standard accessory	d accessory Power cord (1 EA), Patient cable (1 EA), Limb 1 Set (4 EA), Chest ball 1 Set (6 EA), ECG gel (1 EA), ECG paper (1 EA), Operation manual (1 EA), Dignosis guide (1 EA)	
Options	Rechargeable battery, Cart, Hanger	

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ECG>>>

ECG>>>	
ECG leads	12 lead, 12 channel simultaneous ECG and acquisition
Dimension	296(W) × 305.5(H) × 92.5(D) _{mm} , approx.3.5 kg
Recording channel	3 channels + 1 rhythm, 3 channels + 3 rhythm, 6 channels + 1 rhythm, 12 channels, 60 seconds 1 channel, 5 minutes 1 channel and beat report
Sensitivity	2.5, 5, 10, 20, auto(I~aVF: 10, V1~V6: 5) mm/mV
Printing speed	12.5, 25, 50 mm/s
Sampling rate	500 samples/sec
Filters	AC(50/60 Hz, -20 dB or better) Muscle(25~35 Hz, -3 dB or better) Base line drift(0.1 Hz, -3 dB or better) Low pass filter: off, 40 Hz, 100 Hz, 150 Hz
Display	7" color TFT LCD display (800 x 480), 12 channels preview ECG wave
Monitor display	HR,ID, date, AC or Battery state, sensitivity, speed, number of saved data, printing form, rhythm lead
User interface	Touch screen (Alphanumeric and symbol available), Keyboard, rotary push-knob(pop-up menu)
Patient data	ID, name, age, sex, height, weight, smoke, race
Basic measurement	Heart rate, PR int, QRS dur, QT/QTc, P-R-T axis
	Report papers: (width x length) - A4: 215mm(8.5") x 297mm(11.7") - Letter: 215mm(8.5") x 280mm(11") Resolution - vertical: 8dot/mm - horizontal: 16dot/mm
Electrical	Resolution : 500 sample/sec. Internal noise: 20μ/ (p-p)max Input circuit : floating input Input impedance : ≥ 10M Ω Input voltage range : ≥ ±5mV Common mode rejection : > 100 dB DC offset voltage : ≥ ±300mV Time constant : 3.2sec Patient leakage current : < 10μΛ Frequency response : 0.05 ~ 150 Hz Isolated and defibrillation protected
Signal quality control	Disconnected lead detection, Pacemaker pulse detection
ECG data storage	storage for 120 ECGs (Internal on flash memory) USB flash drive
Power	Power supply: AC or built-in battery(option) 95 ~ 240 VAC, 50/60 Hz, 1.0 ~ 0.5A, 60W max
Battery(Ni-MH)	1 hour of normal use (approx. 100 ECG printouts
Communication	PC connection with RS232 interface and LAN, USB Memory, USB Barcode Scanner
Safety conformity	Class I, Type BF, CE, FDA, KFDA, SFDA
Environment	Operating humidity : 30~85% Operating temperature : 10 ~ 40℃ Atmospheric pressure : 70 ~ 106KPa
Standard accessory	Power cord 1 EA, Patient cable 1 EA, Limb 1 set(4 EA), Chest ball 1 set(6 EA), Chart paper 1 EA, Operation manual 1 EA
Options	Rechargeable battery, Cart, Hanger, Bag, PC S/W

SPIROMETER>>>

Dimension	47(W) × 200(H) × 34(D) _{mm} , approx.250g
Measuring Values	FVC: FVC, FEV 1.0, FEV 1/FVC, FEF 0.2-1.2L, FEF 25-75%, FEF 75-85% PEF, FEF 25%, FEF 50%, FEF 75% SVC: SVC, ERV, IRV, TV, EC MVV: MVV, FB, TV
Presentation	Flow volume loop Flow time plot Measurement values table
Measuring range	Flow : 0 to ±14 L/s Volume : 0 to ±11L
Measuring method	Differential pressure method
Prediction equation	Morris-Polgar, ECCS-Quanjer, Knudson-ITS
Sample rate	200 samples/sec
Flow impedance	<0.2 mbar s/l at 12 l/s
Measuring accuracy	Complies with ATS (American Thoracic Society)
Environment	Ambient temperature : 15 to 40°C (59 to 104°F) Relative humidity : 10 to 90%(non-condensing) Atmospheric pressure : 700 to 1060hPa
Standard accessory	Nose clip 1 EA Adapter 2 EA Operation manual 1 EA Disposable mouthpiece 1 box(100 EA)

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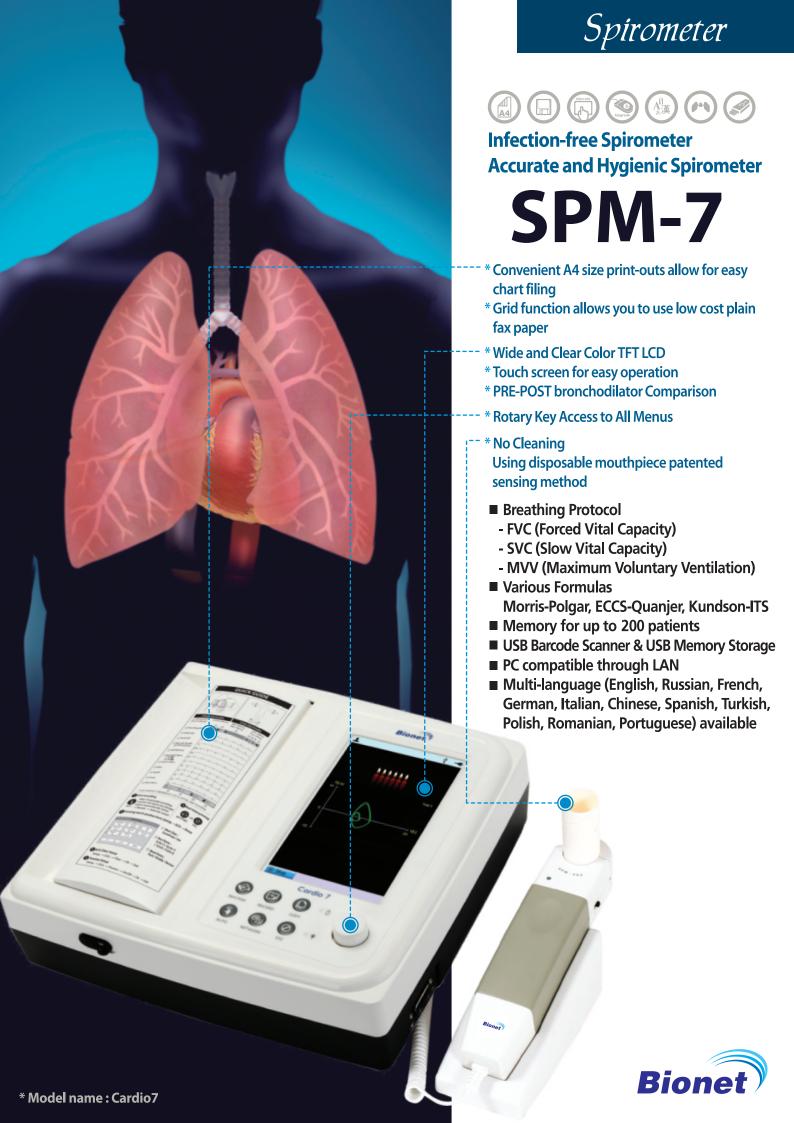
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	Bernoulli's Law	Pneumotachometer	Turbine
structure			→
medium	SmarTube™	screen	Propeller or turbine
accuracy	error ratio < 1% (equal air density)	error ratio < 5% (air friction)	error ratio <20% (inertia problem)
	User-friendly Infection-free	High probability of infection because of remain saliva or bacteria.	High probability of infection because of remain saliva or bacteria and low accuracy.

Dimension	$47(W) \times 200(H) \times 34(D)_{mm}$, approx.250g	
Measuring Values	FVC: FVC, FEV 1.0, FEV 1/FVC,	
	FEF 0.2-1.2L, FEF 25-75%, FEF 75-85%, PEF, FEF 25%,	
	FEF 50%, FEF 75%, FIVC, FEV6, PEFT, FET100%	
	Extrapolated Volume	
	SVC: SVC, ERV, IRV, TV, EC	
	MVV: MVV, FB, TV	
Presentation	Flow volume loop	
	Flow time plot	
	Measurement values table	
Measuring range	Flow : 0 to ±14 L/s	
	Volume : 0 to ±12L	
Measuring method	Differential pressure method	
Prediction equation	Morris-Polgar, ECCS-Quanjer, Knudson-ITS, Pereira, Korea CJK	
Sample rate	200 samples/sec	
Flow impedance	<0.2 mbar s/l at 12 l/s	
Measuring accuracy	Complies with ATS (American Thoracic Society)	
Environment	Ambient temperature : 15 to 40 °C (59 to 104° F)	
	Relative humidity: 10 to 90%(non-condensing)	
	Atmospheric pressure: 700 to 1060hPa	
Standard accessory	Disposable mouthpiece 2 EA	
	Nose clip 1 EA	
	Adapter 1 EA	
	Handle dock 1 EA	
	Operation manual 1 EA	
	Diagnosis guide 1 EA	
	Disposable mouthpiece 1 box (100 EA)	

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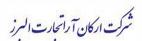
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Dimension	296(W) × 305.5(H) × 92.5(D)m	nm, Approx.2.9kg	
Display	7 -Segment LED 2 channels(FHR, UC)		
Recorder	Method : Thermal print Print speed : 1, 2, 3 cm/min Paper feeding function		
Power Specifications			
Power Adaptor	Input : 100 - 240VAC, 50 - 60H Output : 18VDC, 2.5A	z, 1.2A	
External Link	RS-232C : Program Download,	Central System Connection(option)	
Environmental Specifications			
Temperature Range	Operating temperature : 10 ~ 4 Storage temperature : -10 ~ 60		
Performance Specifications	-11		
Fetal Heart Rate	Input signal: Ultrasound pulse Ultrasound frequency: 1.0Mhz Ultrasound power: <10mW/cn FHR detection method: Auto of FHR range: 50 - 240 bpm FHR accuracy · 120 - 160 bpm: ±1 bpm · Except 120 - 160: ±2 bpm	n ² orrelation	
Jterine Contraction	Input source : External transducer with strain gauge Reference(zero) control : One touch switch Measurement range : 0 - 99 units		
Fetal Movement Measurement	Detection source : Ultrasound p	oulsed doppler	
Auto CTG Analysis	Average Baseline FHR Number of UC Number of Acceleration Number of Deceleration Late Deceleration Early Deceleration Variable Deceleration Tachycardia(Moderate, Severe) Bradycardia(Moderate is printed		:)
Accessory			
Standard	Ultrasound doppler probe UC probe Event marker Print paper Power adaptor & cord Ultrasound gel Probe belt Operation manual	1ea 1ea 1ea 2rolls each 1ea 1ea 2ea 1ea	





Iran : Arkan Ara Tejarat Alborz Co., Ltd.

We strongly recommend you use only the authorized accessories which we supply.

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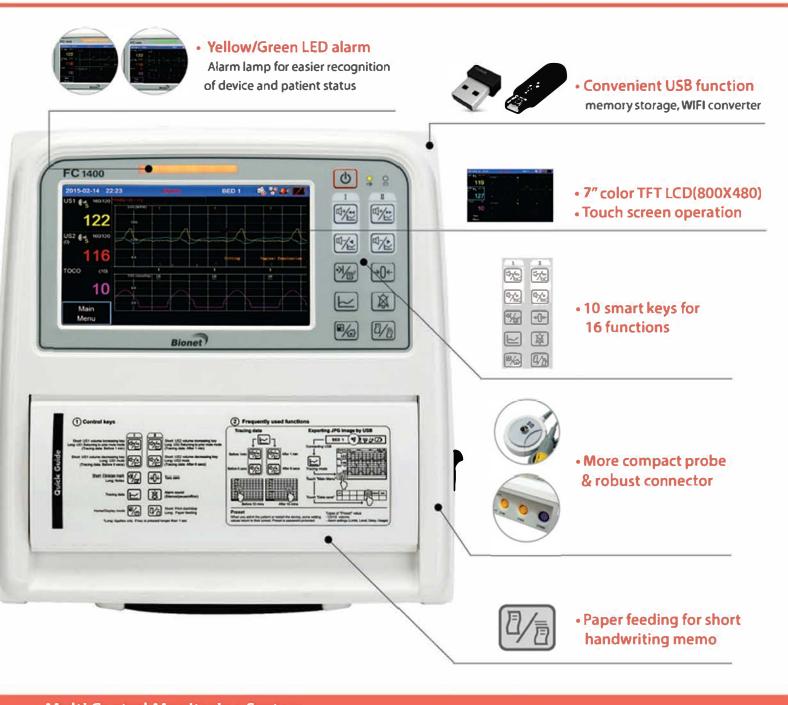
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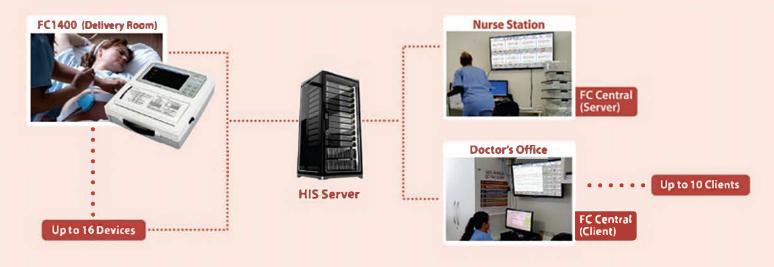
FC1400

I Explore most powerful functions and intuitive operations I



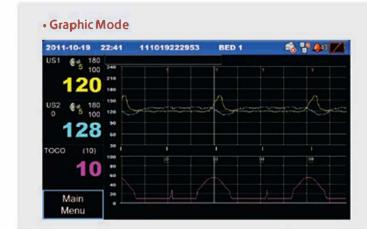
Multi Central Monitoring System

- Newly extended FC central monitoring system which is also independently working.



2 Display Modes

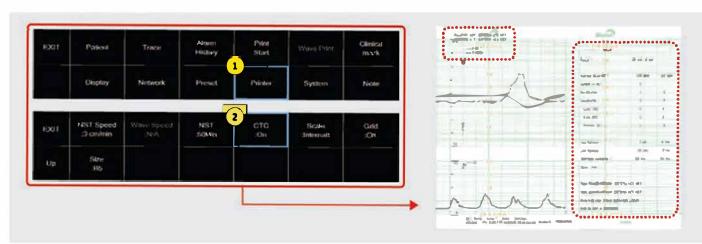
- · Graphic Mode: For general monitoring of fetal status
- Text Mode: For user's quicker & easier recognition of fetal status from long distance



► CTG Interpretation Report

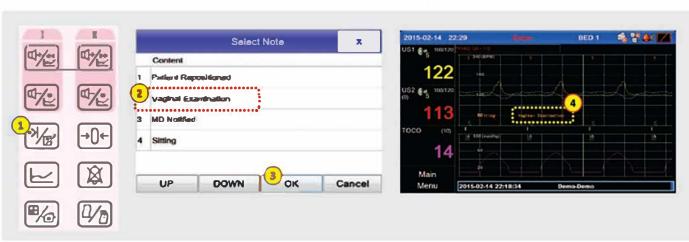
For more comfortable and easier readings of findings by users.

• Up to 4 hours and 30 minutes data



▶ Input Note from Note List

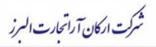
The note is shown in the status line of the display, and is annotated on the fetal trace. There are 4 default notes, and maximum 100 notes could be documented by users.



Dimensions	296(W) x 305.5(H) x 97.5(D) / (Approx. 2.9kg)
Display	7" TFT Wide LCD Screen(800 X 480)
Recorder	Method: Thermal Array Print Type: Roll type Print speed: 1,2,3cm/min(Real time) 30cm/min(Trace, 2,3cm/min) 20cm/min(Trace, 1cm/min) Paper feeding function
Power	Input: 100 - 240V ~, 1.5 - 0.7A, 50-60Hz, / Output: +18V == 2.8A
Battery (Option)	Li-ion : 4 hours (Charging) 2 hours (Discharging)
External link	LAN, WiFi, USB memory
Fetal Heart Rate	Input Signal: Ultrasound pulsed doppter Ultrasound frequency: 1.0MHz, 975KHZ Ultrasound power: <10mW/cm2 FHR detection method: Autocorrelation FHR range: 50 ~ 210 BPM FHR accuracy: ±1 BPM
Uterine Contraction	Input Source : External Transducer with load cell Reference Control ; One touch switch, Auto zeroing Measurement range : 0 ~ 99
Fetal Movement Measurement	Detection source : Ultrasound pulsed doppler, event marker
Data Storage	Storage for 72 Hours
Auto CTG Analysis	Average Baseline FHR Number of UC Number of Acceleration Number of Deceleration Late Deceleration Early Deceleration Variable Deceleration High Episode Low Episode Short term variability Signal loss *CTG Analysis resulls is printed out every 10 minutes. (Intermediate Report)
Accessory (Standard)	Ultrasound doppler probe(2ea), UC probe(1ea), Event marker(1ea), Print paper(2rolls), Power adaptor&cord(each 1ea), Ultrasound gel(1ea), Probe belt(3ea), Operation manual(1ea
Accessory (Option)	Rechargeable battery(1ea), Stimulator(1ea)

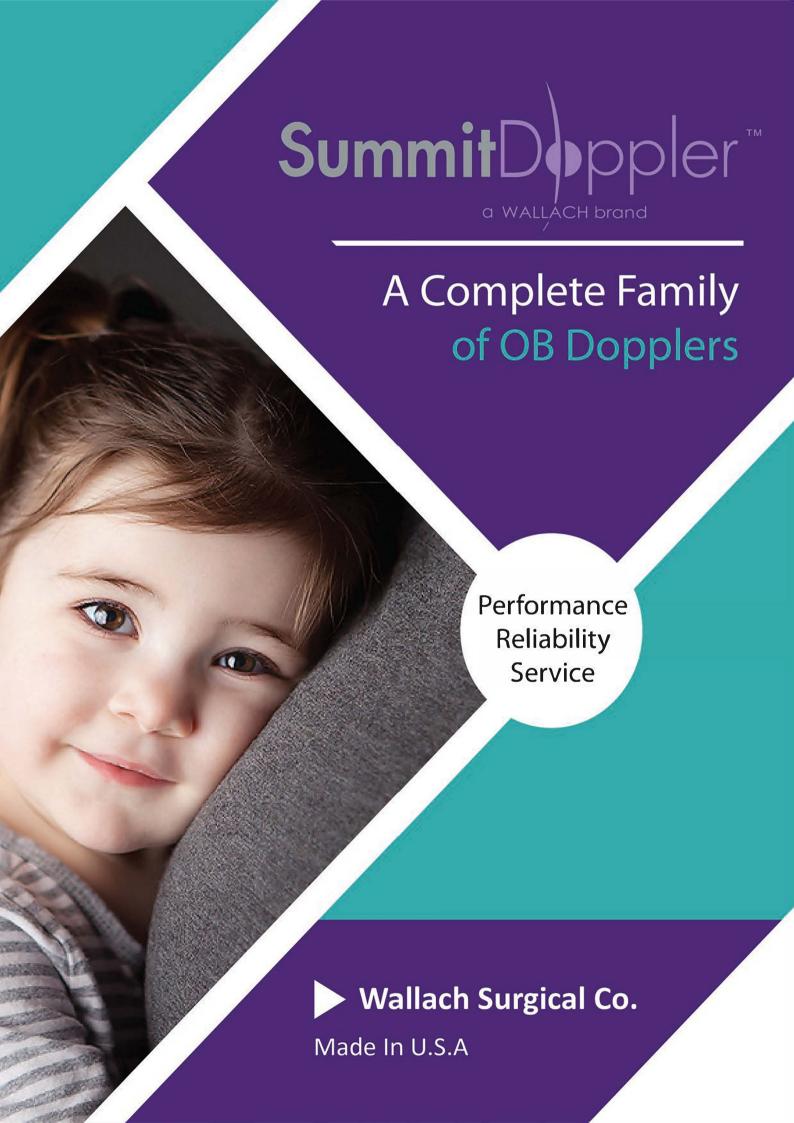
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[&]quot;You may have distortion or signal noise when you use nonstandard or other brand's accessories. We strongly recommend you use only the authorized accessories which we supply.







Listening to Life



LifeDop 350 Table-top Doppler

LifeDop family of Dopplers

Designed with clinician and patient in mind

Rechargeable Batteries and charger included

Early Fetal Heart Detection (as early as 8 weeks)

Superior Sound Quality with high-fidelity speaker

LCD Display for indication of heart-rate and battery status

LifeDop 250 Portable Doppler



LifeDop Probes

Sensitive, Durable, Interchangeable



3 MHZ:

General Purpose obstetrical probe for early fetal-heart detection through delivery.



2 MHZ:

Wide-angle beam optimized for deep penetration for late term pregnancy and larger patients.



Transvaginal:

Transvaginal probe used for early fetal-heart detection for retroverted uterus and obese patients.



Waterproof:

2MHZ probe - Designed for water assisted labor and delivery applications.





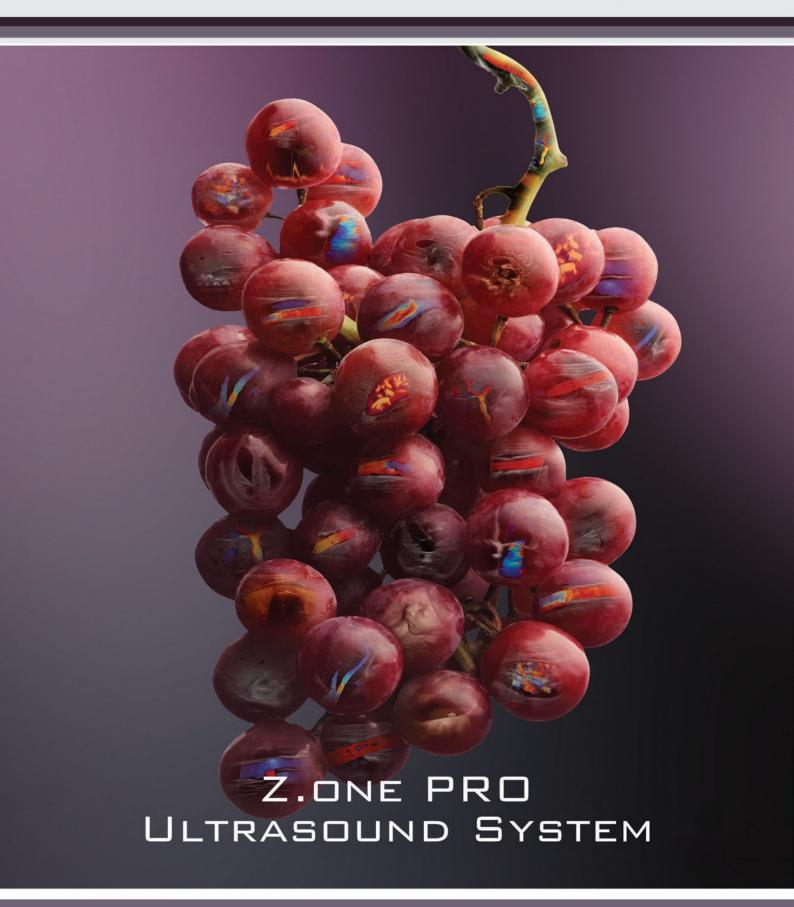


Dimensions	205 cm Lenght, 80 cm Width, 112* cm Height * (with treadmill at zero inclination)	
Running Surface	50 * 150 cm	
Weight	163 kg	
Patient Capacity	180 kg	
Speed Range	0 - 20 km/h	
Speed Increments	0.1 km/h	
Incline Range	0 - 25 %	
Incline Increments	0.5 %	
Data Input/Output	Serial port: RS232 asynchronous Connector: DB9 F Baud rate: 4800 bps Operation: Remote devce interface	
Speed Motor	Asynchronous three phase 2 HP, AC (nominal power)	
Elevation Motor	90 watt DC (nominal power)	
Running Deck	Impact absorbing, Self Iubricating System	
Running Belt	Soft anti-static Thickness 2.7 mm	
Colours	Surface : Embossed Metallic Grey Handrails : Grey Belt : Black	
Distance of Running Surface from the Floor	17 cm	
Working distance of the handrails from the running surface	93 cm	
Warnings	A light indicates the connection to the mains	











COMPACT & BENEFICIAL

Pushing the Boundaries of Ultrasound with Affordable & Powerful Performance

The Z.One PRO is an affordable high performance system, which offers stellar image quality as a durable, small footprint unit.

As with all of our imaging platforms, it is based on proprietary ZONE Sonography[™] Technology (ZST), the core component of "Living Technology", ZONARE's unique and revolutionary approach that allows for continuous upgrades over the life of the system.

Throughout a wide range of applications, the Z.One PRO is your ultrasound solution.

The Z.One PRO offers a wide range of transducers covering many applications. Our Living Technology will grow you into the future by increasing your clinical value and protecting your investment while providing significant advantages.

- Stellar Image Quality
- Affordable High Performance
- Durable, Small System footprint
- Customizable Configurations
- One-Touch Easy Optimization
- Intuitive User Interface
- High-Speed Boot-Up
- Optional Battery Pack
- Wireless Capabilities









THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



Redefining Ultrasound Imaging

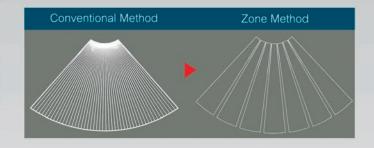
Innovative Technologies Elevate Ultrasound Imaging to a Higher Dimension

"Z.One PRO" is equipped with a "sound speed correction" function based on ZONE Sonography™ Technology, which redefines ultrasound imaging. It offers high-resolution clear imaging as well as automatic & consistently high-quality images.

Reverse Conversion : ZONE Sonography [™] Technology (ZST)

In a general ultrasound system, the sound speed within a patient's body is determined based on physical factors.

Therefore, the thinner the beam becomes, the more time required for data collection, resulting in a constraint on improving image quality ZONE Sonography™ Technology runs counter to this accepted practice of ultrasound imaging. It transmits a broad ultrasound beam to rapidly collect data instantly makes possible a new, advanced image processing environment.



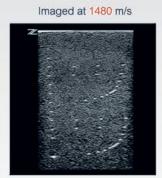
Advanced Image Processing Using : Channel Domain Processing Software

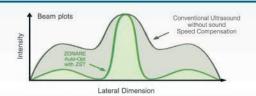
Software enforced beamforming is now possible. High-quality ultrasound images are realized by advanced image processing of extensive echo data collected by probe element accumulated in the using software.

Improved Image Resolution with Auto - Opt with ZST (Sound Speed Correction)

By using advanced image processing technology, the optimum ultrasonic propagation speed within the patient's body (sound speed) is inferred & images are developed High - quality images can be acquired consistently even during the ultrasound examination of breasts, which can present major difference depending on the individual physical consitution.

Imaged at 1540 m/s



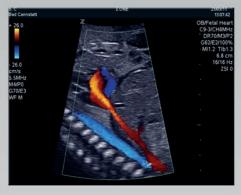


What is "sound speed correction"?

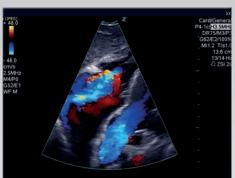
The resolution in the lateral dimension deteriorates due to a difference in sound speed. By correcting this & carrying out optimization, the resolution in the lateral dimension is improved.

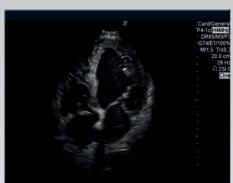
Image Gallery - Echocardiography



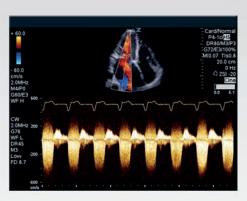


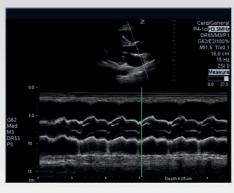


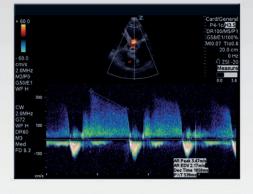




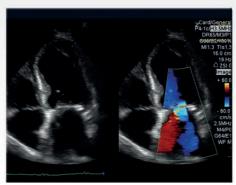












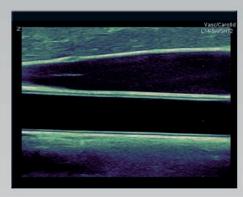


THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



Image Gallery - Sonography

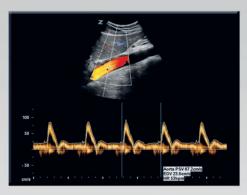


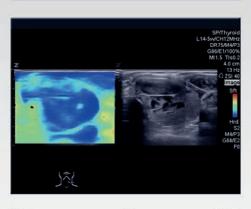


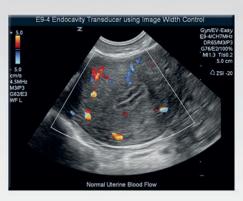


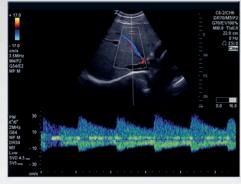




















Family of Transducers

Advanced Transducer Technology from ZONARE - " Available on Z.one PRO "

The transducers are lightweight and ergonomically designed to offer easier imaging access increased operator comfort, and greater overall clinical impact across all patient types.



THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



New transducer technology, wide bandwidth imaging, and multiple frequency imaging with an expanded range of frequencies including Compound Harmonics.

- These features provide : Increased sensitivity and resolution
 - More clinical information and expanded applications

L14-5w Linear Array Applications: Small Parts, Musculoskeletal, Nerve Blocks, Pediatric Hips, Ocular, Superficial Anatomy, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available.	
C4-1 Curved Array Applications: Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Trauma(FAST exams), Contrast Enhanced Ultrasound(CEUS), Needle Guide Available.	5
C6-2 Curved Array Applications: Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available.	643
C9-3 Curved Array Applications: Obstetrics (all trimesters), Pediatric/Small Adult Abdominal Imaging, Fetal Heart and Peripheral Vascular Imaging, Needle Guide Available.	8
E9-4 Endocavity Applications: Endovaginal and Endorectal, Needle Guide Available.	
E9-3 Endoccacvity Applications: Endovaginal and Endorectal, Needle Guide Available.	į.
L14-5sp Linear Array Applications: Intraoperative, Neonatal, Infant, Pediatric Patients, Ocular, Needle Guide Available.	



LIVING TECHNOLOGY

Z.One PRO Ultrasound System	Sonography	Echocardiography	
Outer Dimensions/Weight	51 (W) * 72 (D) * 128 ~ 157 (H) cm / 66 kg	51 (W) * 72 (D) * 128 ~ 157 (H) cm / 66 kg	
Monitor	17-inch OLED (1280 * 1024 pixel resolution)	17-inch OLED (1280 * 1024 pixel resolution)	
Imaging Formats	Convex / Linear / Phased / Micro-Convex / Curved Phased Vector Format / Image Width - User selectable width and positioning	Convex / Linear / Phased / Micro-Convex / Curved Phased Vector Format / Image Width - User selectable width and positioning	
Image Storage	500 GB H.D.D internal memory	500 GB H.D.D internal memory	
Electrical Capacity	100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherrals	100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherrals	
Imaging Modes	B-Mode, M-Mode, Auto-Optimize with ZST Color Doppler, Power Dopple, Directional Power Doppler Pulsed Wave Doppler, Dupplex & Triplex, Dual Screen Compound Harmonics, Tissue Harmonie Imaging (THI) Contrast Enhanced Ultrasound, Elastography	B-mode , M-mode, Auto-Optimize with ZST Color Doppler, Power Doppler, Directional Power Doppler Pulsed Wave Doppler, Continuous Wave Doppler, Tissue Doppler Imaging (TDI), Tissue Harmonie Imaging (THI) Compound Harmonics, Contrast Enhanced Ultrasound Dupplex & Triplex, Dual Screen	
Connectivity	DICOM, HDMI Connector, USB flash 4 ports, DVD/CD R/W Ethernet, SATA Connection, Wireless capable via optional bridge	DICOM, HDMI Connector, USB flash 4 ports, DVD/CD R/W Ethernet, SATA Connection, Wireless capable via optional bridge	
System Features Hardware	4 Transducers Storage (3 Active Transducer Connectors) Hi-fidelity Stereo Speakers, Ergonomic Keyboard Compressed Nitrogen Jack	4 Transducers Storage (3 Active Transducer Connectors) Hi-fidelity Stereo Speakers, Ergonomic Keyboard Compressed Nitrogen Jack	
System Features Software	Fast boot time : less than 30 sec.	Fast boot time : less than 30 sec.	



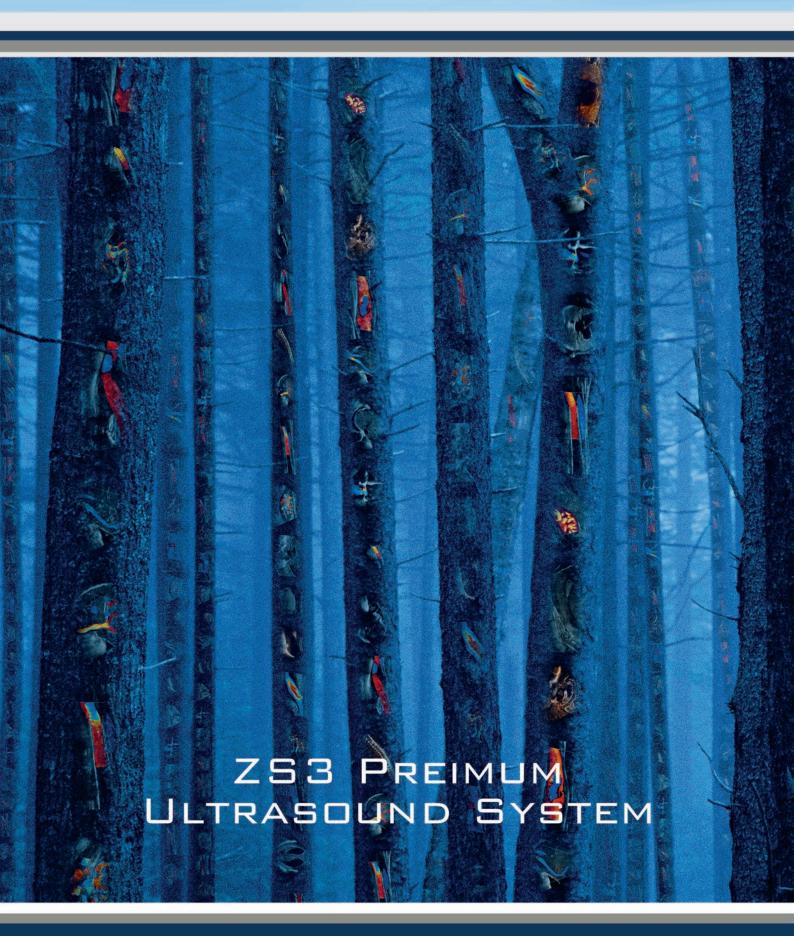
Tel: 021 81060



ZONARE MEDICAL SYSTEMS INC.

Address : California, USA







COMPACT & BENEFICIAL

A New Diagnostic Standard with Premium Performance and Investment Protection.

The premium ZS3 system provides outstanding image quality and excellent return on investment. The unit has a small footprint and is highly portable in tight areas such as the NICU or at the patient's bedside. It is based on ZONARE's award winning ZONE Sonography[™] Technology (ZST), which is a Living Technology - an architecture that allows for ongoing upgrades.

The ZS3 comes with state-of-the-art guarantee, providing unparalleled investment protection.

Features and Benefits of ZS3 System's:

- Unsurpassed image quality for a variety of exams
- Unparalleled technical and service support
- DICOM networking
- Triplex with the ability to store and cine review



THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



Redefining ultrasound imaging

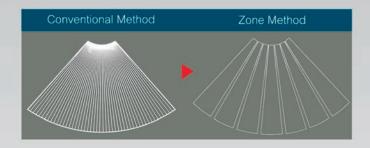
Innovative Technologies Elevate Ultrasound Imaging to a Higher Dimension

"ZS3" is equipped with a "sound speed correction" function based on ZONE Sonography $^{\text{TM}}$ Technology, which redefines ultrasound imaging. It offers high-resolution clear imaging as well as automatic & consistently high-quality images.

Reverse Conversion : ZONE Sonography [™] Technology (ZST)

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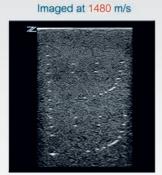
Advanced Image Processing Using: Channel Domain Processing Software

Software enforced beamforming is now possible. High-quality ultrasound images are realized by advanced image processing of extensive echo data collected by probe element accumulated in the using software

Improved Image Resolution with Auto - Opt with ZST (Sound Speed Correction)

By using advanced image processing technology, the optimum ultrasonic propagation speed within the patient's body (sound speed) is inferred & images are developed High - quality images can be acquired consistently even during the ultrasound examination of breasts, which can present major difference depending on the individual physical consitution.

Imaged at 1540 m/s



Beam plots

Conventional Ultrasound Without sound Speed Compensation

Speed Compensation

ZONARE
Auto-Opti
with 2ST

Lateral Dimension

What is "sound speed correction"?

The resolution in the lateral dimension deteriorates due to a difference in sound speed. By correcting this & carrying out optimization, the resolution in the lateral dimension is improved.

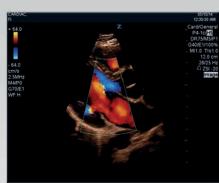
Image Gallery - Echocardiography



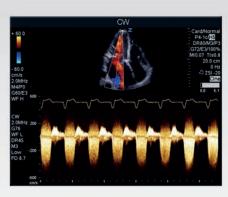




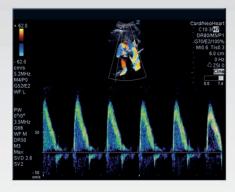














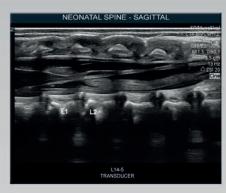




THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



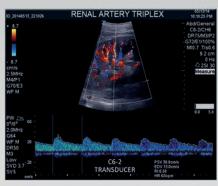
Image Gallery - Sonography



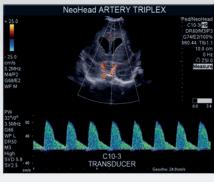








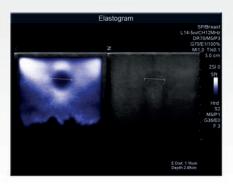
















Family of transducers

Advanced Transducer Technology from ZONARE - " Available on ZS3 "

The transducers are lightweight and ergonomically designed to offer easier imaging acces increased operator comfort, and greater overall clinical impact across all patient types.

	cominort, and greater overall climical impact across all patient types.
PARE	P4-1c Phased Array Applications: Echocardiography, Transcranial Imaging/Doppler, Trauma (FAST Exams), Deep Abdominal, Abdominal Vascular, Renal, Aorta, Contrast Enhanced Ultrasound (CEUS).
9	C10-3 Curved-Phased Array Applications: Neonatal Head, Neonatal Abdominal, Pediatric Echo, Pediatric Abdominal, General Cardiology, Ocular.
	P8-3TEE Phased Array Applications : Transesophageal Echocardiography.
+	A2 Continuous Wave Applications : Adult, Adolescent Echocardiography.
	A5 Continuous Wave Applications : Peripheral Vascular.
5	L8-3 Linear Array Applications: Peripheral Vascular, Nerve Blocks, Pediatric Hips, Needle Guide Available.
	L10-5 Linear Array Applications: Small Parts, Musculoskeletal, Nerve Blocks, Pediatric Hips, Ocular, Superficial Anatomy, Needle Guide Available.
I Lister	L14-5w Linear Array Applications: Small Parts, Musculoskeletal, Nerve Blocks, Pediatric Hips, Ocular, Superficial Anatomy, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available.
9.	L20-5 Linear Array Applications: Musculoskeletal, Pediatric, Superficial, Interventional, Testicular, Ocular, Breast, Vascular,& research in advanced applications, Contrast Enhanced Ultrasound (CEUS).

THROUGH LIVING TECHNOLOGY, WE'LL GROW WITH YOU INTO THE FUTURE.



New transducer technology, wide bandwidth imaging, and multiple frequency imaging with an expanded range of frequencies including Compound Harmonics.

These features provide: * Increased sensitivity and resolution

* More clinical information and expanded applications

C4-1 Curved Array Applications: Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Trauma(FAST exams), Contrast Enhanced Ultrasound(CEUS), Needle Guide Available.	3
C6-2 Curved Array Applications: Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available.	25
C9-3 Curved Array Applications: Obstetrics (all trimesters), Pediatric/Small Adult Abdominal Imaging, Fetal Heart and Peripheral Vascular Imaging, Needle Guide Available.	649
C8-3, 3D Curved Array Applications: OB/GYN & Abdomen 3D & 4D (static and real-time) Surface Rendering, Multi-Planar Rendering and Tomographic Slice Imaging Mode.	
E9-4 Endocavity Applications: Endovaginal and Endorectal, Needle Guide Available.	
E9-3 Endoccacvity Applications: Endovaginal and Endorectal, Needle Guide Available.	
E9-3, 3D Endocavity Applications: Endovaginal including First Trimester OB/GYN (uterus, ovaries), Surface Rendering, Multi-Planar Rendering and Tomographic Slice Imaging Mode.	
L14-5sp Linear Array Applications: Intraoperative, Neonatal, Infant, Pediatric Patients, Ocular, Needle Guide Available.	
C9-3sp Curved Array Applications: Intraoperative (visceral and vascular), Neonatal, Pediatric, Contrast Enhanced Ultrasound (CEUS).	



LIVING TECHNOLOGY

ZS3 Premium Ultrasound System	Sonography	Echocardiography
Outer Dimensions / Weight	51 (W)* 72 (D)*128 ~157 (H) cm / 66 kg	51 (W)* 72 (D)*128 ~157 (H) cm / 66 kg
Monitor	19-inch OLED (1280 * 1024 pixel resolution)	19-inch OLED (1280 * 1024 pixel resolution)
Imaging Formats	Convex / Linear / Phased / Micro-Convex / Curved Phased Vector Format / Image Width - User selectable width and positioning	Convex / Linear / Phased / Micro-Convex / Curved Phased Vector Format / Image Width - User selectable width and positioning
Image Storage	500 GB H.D.D internal memory	500 GB H.D.D internal memory
Electrical Capacity	100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherals	100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherals
Imaging Modes	B-Mode, M-Mode, Auto-Optimize with ZST, Auto IMT Color Doppler, Power Doppler, Directional Power Doppler Pulsed Wave Doppler, Duplex & Triplex, Dual Screen Compound Harmonics, Tissue Harmonic Imaging (THI) Elastography, 3D/4D Imaging, Smart OB/NT Contrast Enhanced Ultrasound	B-Mode, M-Mode, Auto-Optimize with ZST, Auto EF Color Doppler, Power Doppler, Directional Power Doppler Pulsed Wave Doppler, Continuous Wave Doppler, Tissue Doppler Imaging (TDI), Tissue Harmonic Imaging (THI) Compound Harmonics, Contrast Enhanced Ultrasound Duplex & Triplex, Dual Screen, Stress Echo, PED TEE, ICE
Connectivity	DICOM, HDMI Connector, USB flash 4 ports, DVD/CD R/W Ethernet, SATA Connection, Wireless capable via optional bridge	DICOM, HDMI Connector, USB flash 4 ports, DVD/CD RW Ethernet, SATA Connection, Wireless capable via optional bridge
System Features Hardware	4 Transducers Storage (3 Active Transducer Connectors) Hi-fidelity Stereo Speakers, Ergonomic keyboard Compressed Nitrogen Jack	4 Transducer Storage (3 Active Transducer Connectors) Hi-fidelity Stereo Speakers, Ergonomic keyboard Compressed Nitrogen Jack
System Features Software	Fast boot time : less than 30 sec.	Fast boot time ; less than 30 sec.

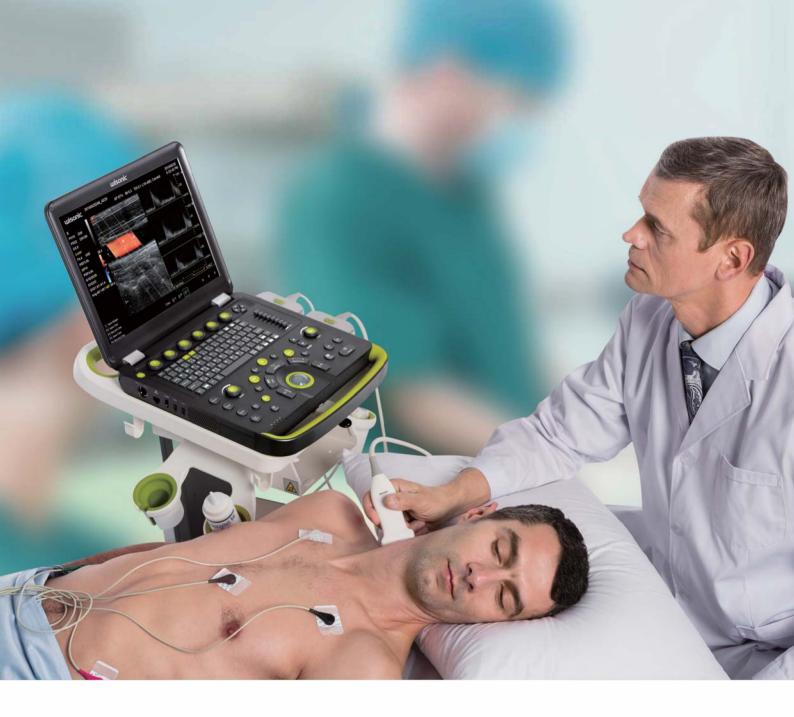


Tel: 021 81060



ZONARE MEDICAL SYSTEMS INC.

Address: California, USA









The Clover System is a fully functional hand carried ultrasound unit. With it's durable extremely lightweight design, easy to use functionality and best-in-class image quality. There is no longer a trade off between performance and weight. Featuring industry leading technology such as Holo™ PW and Auto Doppler Positioning.









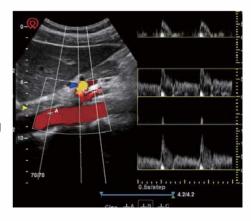
Holo™ Ultrasound Platform

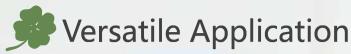
The Holo™ Platform uses advances in ultra fast processing speeds, allowing it to handle up to 5000 frames per image per second with it's cutting edge 64 beam imaging. The Holo™ Platform is the basis for the new innovative technologies seen on the Clover such as wiNeedle and Holo™ PW.



Holo™ PW

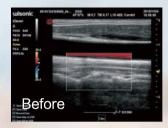
3 separate PW imaging positions under real-time and frozen status. This is an essential tool in evaluating vascular pathology. The effects of plaque on the vessel can be accurately measured within the same heart cycle, by placing the PW sample on either side of a plaque and comparing real time velocity changes across the vessel.





Advanced imaging technologies guarantee every quality exam.

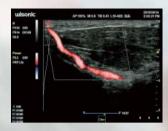
Auto Doppler





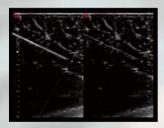
The Clover will automatically find the blood vessels and auto optimise the color mode for ROI position, steer angle, gate size, PW steer angle and correction angle giving the user greater confidence and saving time.

Ultra-Wide Steer Angle



A precise tool to match vessel angle with blood flow. With a 30 degree maximum angle, quick angle and finer 1 degree steps the user has complete control.

wiNeedle



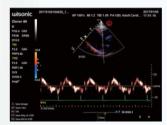
The most challenging work is always distinguishing the needle from tissue. Clover answers this easily with WiNeedle which automatically recognises the needle for enhanced optimisation display.

3D/4D



By integrating with the new virtual lighting modes, Clover is able to generate exciting visual effects such as human skin-like imaging features.

TDI



Tissue Doppler Imaging to evaluate local myocardial function and movement.

AMM



Providing 3 lines of site in anatomical M-Mode, the Clover allows for accurate evaluation of Myocardial motion at different phases, and determine simultaneous myocardial synchronization.

IMT



Auto IMT allows anterior and posterior wall thickness measurements to be easier and more accurate.



C Dual probe ports

1.9Kg weight main unit with battery

E Height adjustable

F Big size basket



Broad Set of Transducers

With a broad range of transducers the Clover system supports an extensive range of examinations, including a new 20MHz probe for outstanding superficial imaging resolution. All transducers have centre line markings in both planes to assist in needle guidance.

Convex



Phased Array





Linear

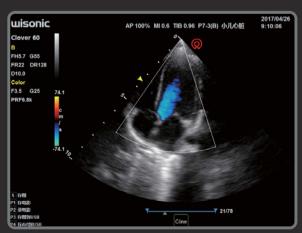




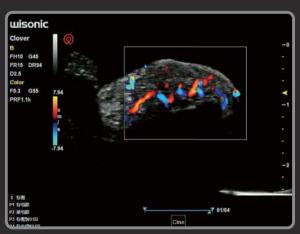
Baby liver



Twin Pregnancy



Baby heart



Fingertip Color Flow







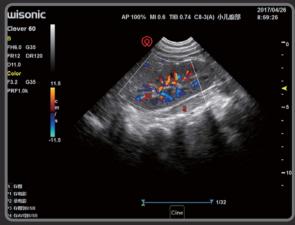








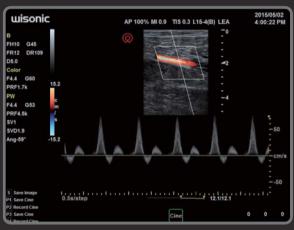




Baby kidney



Thyroid



Lower Extremity Artery Spectrum



Median Nerve

Ultrasound System	Sonography	Echocardiography
Outer Dimensions	Main Unit External Dimensions : 352(H)*366(L)*65(W) mm	Main Unit External Dimensions : 352(H)*366(L)*65(W) mm
	Trolley Dimensions : 510(W)*622(L)*820~1020(H)mm	Trolley Dimensions : 510(W)*622(L)*820~1020(H)mm
Weight	System Weight: 4.9 Kg (Including Batteries without Power Adaptor)	System Weight : 4.9 Kg (Including Batteries without Power Adaptor)
	Trolley Weight : 22 Kg (without Accessories)	Trolley Weight : 22 Kg (without Accessories
Monitor	15" - LED	15" - LED
Imaging Formats	Convex / Linear/ Trans Vaginal	Phased array
Imaging Storage	240 GB	240 GB
Electrical Capacity	70 min Battery	70 min Battery
Imaging Mode	B-Mode, M-Mode, Color Dopple Power Doppler, Directional Power Doppler Imaging, Pulsed Wave Doppler, HoloTM PW, Duplex, Triplex, Dual B-Mode, Quad B-Mode, Spatial Compounding Imaging (SCI), Auto Image Optimization, Harmonic Imaging.	B-Mode, M-Mode, Anatomical M-Mode, Col Doppler, Tissue Color Imaging, Power Doppler, Directional Power Doppler, Pulsed Wave Doppler, Continuous Wave Doppler, Tissue Doppler Imaging, Duplex, Triplex, Dual B-Mode, Quad B-Mode, Spatial Compounding Imaging (SCI), Auto Image Optimization, Harmonic Imaging.
Connectivity	2USB, Power Input, Internet Port, WIFI, HDMI, Printer, ECG Port, DICOM.	USB, Power Input, Internet Port, HDMI, Printer, ECG Port, DICOM
System Features Hardware	2 Active Transducer Connectors.	2 Active Transducer Connectors.
System Features Software	Fast Boot Time : 23 Sec, Auto Image Operating Modes, OB Tables Measurements, Calculations.	Operating Modes, OB Tables Measurements, Calculations.
Options	Biopsy, 3G Network Adaptor, Video Convetor Box, Extra Battery, ExFOV(Extended FOV).	Biopsy, 3G Network Adaptor, Video Convetor Box, Extra Battery, ExFOV(Extended FOV).







www.arkanara.com