

bionet

SonoMe

bionet

Specifications

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Characteristics

Multiple elements for better resolution: Up to 192 elements.

A wide mode coverage: B, B/M, Color, PDI, PW modes.

Light transducers: 200-250g.

Selectable TGC control with 8 depth-dependent gain controls.

Long battery working time: 2.5-5.0 hours.

Easy to charge with USB or wireless charger. (not provided.)

Harmonic imaging to increase the image quality.

User Interface

Only 1 press to control freeze/thaw, recall, save, gain, depth, focus, dynamic range, harmonic imaging, reject, annotations.

2 strokes to change preset, mode, measure.

Presets with optimized image settings for the scanning application.

Settings menu for DICOM settings, Information exposure, Cine Loop, Wi-Fi Channel.

Probe buttons to control freeze/thaw, depth.

No need to register when using the app.

B-mode controls

- TGC: 8 depth-dependent gain controls
- Gain (B-mode): 76 steps (30-105dB)
- Depth: 4 steps 20-305mm
- Focus: 4 steps (The number of focus: 1-2)
- DR (Dynamic Range): 8 steps (40-110)
- HR (Harmonic): 2 steps (On and Off)
- Reject (Noise filter): 5 steps (0-4)
- Biopsy guides (In-plane, out-plane, clear)
- Image orientation change (Left/Right reverse, Up/Down reverse)

- Freeze
- Measurements
- Annotations
- Save (Still image, video)

Color and PDI mode controls

- Color gain: 51 steps (0-100)
- Steer: 5 steps (-12° - $+12^{\circ}$) (Linear)
- WF (Wall filter): 16 steps (0-15)
- PRF (Pulse Repetition Frequency): 4 steps (1.25-2.5 K)
- Freeze
- Measurements
- Annotations
- Save (Still image, video)

PW mode controls

- PW gain: 51 steps (0-100)
- Volume: 3 steps (1-5mm)
- Angle: 37 steps (-85° - $+85^{\circ}$)
- PRF (Pulse Repetition Frequency): 4 steps (1.25-2.5 K)
- Baseline: 5 settings
- Freeze
- Measurements
- Annotations
- Save (Still image, video)

Imaging screen display

- Image
- Patient ID
- Patient Gender
- Patient Age
- Preset
- Transducer SSID
- Software version
- Time, date, network, battery status available on smart device

Data Storage

Patient data can be entered manually or selected from DICOM Worklist.

Exam data can be exported to DICOM PACS or stored in the mobile device.

Exam data saved in the mobile device

- The number of exams that can be saved depends on the capacity of the smart device.
- Image data is stored in JPEG for still images or MP4 for videos.
- Videos' cine loops: 100-200
- Data can be easily reviewed and managed in the photo album of the smart device.

Data export & sharing

- Reports, still images, or videos with or without patient information can be wirelessly exported or shared in JPEG or MP4 with other apps available on smart device.
- Reports, still images, or videos with patient information can be wirelessly exported in DICOM format to DICOM PACS.

Supported DICOM: Worklist and Store

Standard Accessories

SonoMe transducer

SonoMe Pro app (iOS and Android)

Pouch

Hardcopy quick start guide

USB charging cable

Hand strap (Only available for 5C, 10L, 14L, 5CB, 10LB)

Supported Mobile Platforms

Operating system options

- Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
- Android phone brand: Samsung, Huawei, MI

Wireless Connectivity Parameters

Wi-Fi type: 2.4G Band

Supported type: 802.11n(HT20)

Modulation: 802.11n:OFDM

Channel number: 13 Channel for 20MHz bandwidth (2412~2472 MHz)

Channel separation: 5 MHz

Antenna description: Internal Antenna, 2.1dBi(Max.)

Safety Compliance

Environmental parameters

<Operations>

- Ambient temperature: 5°C to +35°C
- Relative humidity: 25% to 80%, non-condensing
- Atmospheric pressure: 700hPa to 1060hPa
- Max. altitude: 3000m

<Storage and transportation>

- Ambient temperature: -20°C to +55°C
- Relative humidity: 25% to 93%, non-condensing
- Atmospheric pressure: 700hPa to 1060hPa
- Max. altitude: 3000m

Safety Parameters

- Type of protection against electric shock
 - 5C & 5CB & 10L & 10B & 14L : Internally powered, 3.85 VDC / 4200 mAh
 - H5C10L : Internally powered, 3.85 VDC / 2800 mAh
 - H5C & H10L : Internally powered, 3.85 VDC / 5600 mAh
- Degree of protection against electric shock: Type-BF applied part
- Operation mode: Non-continuous working, Mode of operation: 1:2 duty cycle (ON: 5 min/OFF:10 min)
- Installation and operation type: Hand-held
- Degrees of protection against harmful liquid: IPX1
- Degree of safety of application: The equipment is not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

Complied Standards

EN/I EC 60601-1:2012	Medical electrical equipment Part 1: General requirements for basic safety and essential performance, BF, Non-continuous operation
EN/IEC 60601-2-37: 2015	Medical Electrical Equipment Part 2-37: Particular Requirements for the Basic Safety and Essential Performance of Ultrasonic Medical Diagnostic and Monitoring Equipment
EN/IEC 60601-1-2:2014	Electromagnetic Compatibility Requirement and tests, Class A

Transducers

128 Element- Black & White Transducers: 5CB and 10LB

SonoMe 5CB (Convex)

Overview	Element: 128 Frequency: 3.2-5 MHz Depth: 90mm- 280mm
Available Modes	B, B/M
Clinical Applications	Abdomen, Gynecology, Obstetrics
Measures	Length, Area, Angle, Obstetrics
Physical Characteristics	Dimensions: 157 x 67 x 29mm Radius: 60° Weight: 250g
Mobile Platforms	Display: Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 3.5 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature 5°C to +35°C Relative Humidity 25% to 80%, non- condensing Atmospheric Pressure 700hPa to 1060hPa Max. Altitude 3000m

SonoMe 10LB (Linear)

Overview	Element: 128 Frequency: 7.5- 10MHz Depth: 20mm-55mm
Available Modes	B, B/M
Clinical Applications	Peripheral vessel, Superficial organ
Measures	Length, Area, Angle, Obstetrics
Physical Characteristics	Dimensions: 157 x 67 x 29mm Head Length 40mm Weight: 200g
Mobile Platforms	Display: Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes

Charging and Bootup	Battery Life: 3.5 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature 5°C to +35°C Relative Humidity 25% to 80%, non-condensing Atmospheric Pressure 700hPa to 1060hPa Max. Altitude 3000m

128 Element-Color Doppler Transducers: 5C, 10L, 14L

SonoMe 5C (Convex)

Overview	Element: 128 Frequency: 3.2-5 MHz Depth: 90mm-280mm
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Abdomen, Gynecology, Obstetrics
Measures	Length, Area, Angle, Obstetrics
Physical Characteristics	Dimensions: 157 x 67 x 29mm Radius: 60° Weight: 250g
Mobile Platforms	Display: Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 3.5 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature 5°C to +35°C Relative Humidity 25% to 80%, non-condensing Atmospheric Pressure 700hPa to 1060hPa Max. Altitude 3000m

SonoMe 10L (Linear)

Overview	Element: 128 Frequency: 7.5-10 MHz Depth: 20mm-55mm
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Peripheral vessel, Superficial organ
Measures	Length, Area, Angle, Obstetrics
Physical Characteristics	Dimensions: 157 x 67 x 29mm Head Length 40mm Weight: 200g
Mobile Platforms	Display: Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.

Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 3.5 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature 5°C to +35°C Relative Humidity 25% to 80%, non-condensing Atmospheric Pressure 700hPa to 1060hPa Max. Altitude 3000m

SonoMe 14L (Linear)

Overview	Element: 128 Frequency: 10-14 MHz Depth: 20mm-55mm
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Peripheral vessel, Superficial organ
Measures	Length, Area, Angle, Obstetrics
Physical Characteristics	Dimensions: 157 x 67 x 29mm Head Length 25mm Weight: 200g
Mobile Platforms	Display: Tablet PC or Mobile Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 3.5 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature: 5°C to +35°C Relative Humidity: 25% to 80%, non-condensing Atmospheric Pressure: 700hPa to 1060hPa Max. Altitude: 3000m
Available Accessories	Needle Guides (Out of plane) - 21G 1.0cm, 1.5cm, 2.0cm

192 Element-Color Doppler Transducers: H5C10L, H5C, H10L

SonoMe H5C10L (Convex-Linear Dual Head)

Overview	Element: 192 Frequency: 3.2-5 MHz (Convex), 7.5-10 MHz (Linear) Depth: 90mm-305mm (Convex), 20mm-80mm (Linear)
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Abdomen, Gynecology, Obstetrics, Superficial vessel, Superficial organ
Measures	Length, Area, Angle, Obstetrics, Blood flow velocity
Physical Characteristics	Dimensions: 159 x 69 x 29mm Radius: 60° (Convex) Head Length 40mm (Linear) Weight: 250g
Mobile Platforms	Display: Tablet PC or Mobil Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 2.5 hours Charging Mode: Wireless Charging
Operating Range	Ambient Temperature: 5°C to +35°C Relative Humidity: 25% to 80%, non-condensing Atmospheric Pressure: 700hPa to 1060hPa Max. Altitude: 3000m

SonoMe H5C (Convex)

Overview	Element: 192 Frequency: 3.2-5 MHz Depth: 90mm-305mm
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Abdomen, Gynecology, Obstetrics
Measures	Length, Area, Angle, Obstetrics, Blood flow velocity
Physical Characteristics	Dimensions: 160 x 70 x 23mm Radius: 60° Weight: 240g
Mobile Platforms	Display: Tablet PC or Mobil Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 5.0 hours

	Charging Mode: USB Charging
Operating Range	Ambient Temperature 5°C to +35°C Relative Humidity 25% to 80%, non-condensing Atmospheric Pressure 700hPa to 1060hPa Max. Altitude 3000m

SonoMe H10L (Linear)

Overview	Element: 192 Frequency: 7.5-10 MHz Depth: 20mm-100mm
Available Modes	B, B/M, Color, PDI, PW
Clinical Applications	Peripheral vessel, Superficial organ
Measures	Length, Area, Angle, Obstetrics, Blood flow velocity
Physical Characteristics	Dimensions: 160 x 64 x 23mm Head Length: 40mm Weight: 230g
Mobile Platforms	Display: Tablet PC or Mobil Phone which supports iOS 8.0 or above, Android OS 7.0 or above.
Security and Encryption	Wi-Fi Type: 2.4G Band Supported Type: 802.11n(HT20) Local Storage: Yes DICOM: Yes
Charging and Bootup	Battery Life: 5.0 hours Charging Mode: USB Charging
Operating Range	Ambient Temperature: 5°C to +35°C Relative Humidity: 25% to 80%, non-condensing Atmospheric Pressure: 700hPa to 1060hPa Max. Altitude: 3000m

Headquarters

Bionet Co., Ltd.

5F, 61 Digital-ro 31-gil, Guro-gu, Seoul, Republic of Korea 08375

Tel.: +82 2 6292 6410 / E-Mail: info.sales@ebionet.com

Website: www.sonome.com

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2024-Bionet(SonoMe Pro Specifications)-Rev.1