



SONOSCANNER
Premium Diagnostic Ultrasound

ONDINA

EXTENDED

TECHNICAL DATA SHEET

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Featuring the next generation of portable ultrasound system, the ONDINA combines premium performance and versatility in a highly portable and easy to use platform. The ONDINA is designed for the following clinical applications: Vascular, Obstetrics, Gynecology, Small Parts and Superficial, Abdominal, Urological, Musculoskeletal, Breast, and Pediatric.



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<u>Dimensions</u> <ul style="list-style-type: none">➤ Depth: 37cm➤ Width: 29cm➤ Height: 7cm	<u>Weight</u> <ul style="list-style-type: none">➤ 4.6KG APPROX WITH BATTERY
<u>Console</u> <ul style="list-style-type: none">➤ Laptop Style➤ Operating System: Windows 10➤ Boot Up Time: 20 sec➤ 1 probe port: Automatic probe selection➤ Storage capacity: 250Go➤ Front Handle➤ 2 USB 3.0 Ports➤ HDMI Output	<u>Screen</u> <ul style="list-style-type: none">➤ 15 INCH HIGH RESOLUTION LCD COLOR MONITOR➤ Screen Resolution: 1024 X 768➤ Angle Adjustment: 0° to 100°➤ Integrated Stereo Speaker➤ Magnetic closure
<u>Control Panel</u> <ul style="list-style-type: none">➤ Alphanumeric Keyboard➤ Hard Key Operations➤ 11 multifunction soft buttons dedicated to Scanning Modes➤ 4 multifunction digital encoders➤ Trackball: 25mm	<u>Electrical Power</u> <ul style="list-style-type: none">➤ Voltage: 110V or 220V➤ Frequency: 50/60Hz

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<p><u>Applications:</u></p> <ul style="list-style-type: none"> ➤ Vascular ➤ Abdominal ➤ Obstetrics ➤ Gynecology ➤ Anesthesia ➤ Urology ➤ Small Parts and Superficial ➤ Ti-rads ➤ Bi-rads ➤ Pediatric 	<p><u>Main* Probes</u></p> <ul style="list-style-type: none"> ➤ <u>HD Linear Array</u> Applications: Vascular, Small Parts, Breast, Musculoskeletal, Pediatric, Neonatal Band Width: 10MHz ~ 18MHz Steered Angle: +/- 10° Trapezoidal Imaging ➤ <u>Linear Array</u> Applications: Vascular, Small Parts, Breast, Musculoskeletal, Pediatric, Neonatal Band Width: 05MHz ~ 12.5MHz Steered Angle: +/- 10° Trapezoidal Imaging ➤ <u>Convex Array</u> Applications: Abdominal, OB/GYN, Urology, Vascular Band Width: 02MHz ~ 05MHz Scanning angle: 60° ➤ <u>Endocavitary Array</u> Applications: OB/GYN, Urology Band Width: 04MHz ~ 09MHz Scanning angle: 148° ➤ <u>Phased Array</u> Applications: Cardiology, Abdominal Band Width: 02MHz ~ 04MHz Scanning angle: 90° ➤ <u>Motorized Convex 3D/4D (Mechanical)</u> Applications: OB, Urology, Abdominal, Renal Band Width: 03MHz ~ 06MHz Scanning angle: 77°
<p><u>Scan Frequency range:</u></p> <ul style="list-style-type: none"> ➤ From 1.5 to 20 Mhz 	
<p><u>Probe elements range:</u></p> <ul style="list-style-type: none"> ➤ From 128 to 192 elements 	
<p><u>Imaging Modes</u></p> <ul style="list-style-type: none"> ➤ B-Mode ➤ M-Mode ➤ Color Doppler (CFM) ➤ Power Doppler ➤ Directional Power Doppler ➤ Pulse Wave Doppler (PW) ➤ Continuous Wave Doppler (CW) 	<p><u>Combination Modes</u></p> <ul style="list-style-type: none"> ➤ B/B Mode ➤ B/M Mode ➤ Dual M-Mode ➤ Duplex Mode ➤ Triplex Mode

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<p>(optional)</p> <ul style="list-style-type: none"> ➤ Tissue Harmonic Imaging ➤ Panoramic (optional) ➤ 4D Real Time (optional) ➤ Elastography (optional) 	
<p><u>Storage Capacity</u></p> <ul style="list-style-type: none"> ➤ Integrated HDD: 250Go (Images, Cine Loop etc.) ➤ CINE Memory: Sequence of up to 40 seconds each (25 images per second). ➤ Archive format: JPEG 	<p><u>Media & Peripheral devices:</u></p> <ul style="list-style-type: none"> ➤ Digital B/W printer (Thermal printing): Optional ➤ Digital color printer (Dye sublimation thermal transfer): Optional
<p><u>Software Options:</u></p> <ul style="list-style-type: none"> ➤ 4D ➤ PANORAMIC ➤ ELASTOGRAPHY ➤ DICOM 3.0 	<p><u>Hardware Options:</u></p> <ul style="list-style-type: none"> ➤ Travelling Case ➤ Dedicated Cart ➤ Sontrio for three probes connexion
<p><u>Connectivity:</u></p> <ul style="list-style-type: none"> ➤ Ethernet Network Connection: Gigabit LAN. 	<p><u>Exclusivity:</u></p> <ul style="list-style-type: none"> ➤ Probe Holder integrated and removable

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SCANNING PARAMETERS ON REAL TIME EXAM	
<p><u>B Mode (2D), Harmonic and M Mode :</u></p> <ul style="list-style-type: none"> ➤ Acoustic Power Output ➤ Probe Frequency ➤ 2D Gain ➤ Time Gain Compensation ➤ Dynamic Range ➤ Edge Enhancement ➤ Focus Number ➤ Focus Position ➤ Depth. Minimum Depth : 2cm (probe dependent). Maximum Depth : 30cm (probe dependent) ➤ Real Time Adapting Smoothing[®] : for image smoothing, speckle reduction and contour enhancement ➤ Time Smooth ➤ Continuous Zoom and Scroll ➤ Trapezoid Mode. With linear probe only ➤ Harmonic Mode. With convex probe only ➤ Compound Imaging: iSteer[®] ➤ Line Density 	<p><u>CFM, Power and Directional Modes:</u></p> <ul style="list-style-type: none"> ➤ Acoustic Power Output ➤ CFM Window Size ➤ CFM Window Location ➤ Color Gain ➤ Pulse Repetition Frequency ➤ Steering : With linear probe only ➤ Trapezoid Mode. With linear probe only ➤ Color Inversion ➤ Color Frequency ➤ Focus Position ➤ Wall Filter ➤ Duplex ➤ Triplex ➤ Continuous Zoom and Scroll ➤ Color Map
<p><u>Pulse Wave Mode</u></p> <ul style="list-style-type: none"> ➤ Acoustic Power Output ➤ PW Gate position ➤ PW Gate Length ➤ PW Frequency ➤ PW Baseline Adjustment ➤ PW steering (possibility to combine color and PW steering in triplex mode): With linear probe only ➤ PW Inversion ➤ PW Gain Adjustment ➤ Wall Filter ➤ Pulse Repetition Frequency ➤ Duplex ➤ Triplex ➤ Audio Adjustment ➤ Angle Correction ➤ Automatic PW Doppler Optimization: Autoset[®] ➤ Line ➤ Auto Trace 	<p><u>3D/4D Acquisition</u></p> <ul style="list-style-type: none"> ➤ 3D Rendering ➤ Real Time 4D Mode ➤ 4D Depth Adjustment : Scan distance ➤ Sectional Plane ➤ 360° display rotation ➤ Continuous Zoom

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SCANNING PARAMETERS ON POST PROCESS	
<p><u>B Mode (2D) and M Mode :</u></p> <ul style="list-style-type: none"> ➤ 2D GAIN ➤ Time Gain Compensation ➤ DYNAMIC RANGE ➤ Edge Enhancement ➤ Real Time Adapting Smoothing[®] for image smoothing, speckle reduction and contour enhancement ➤ Time Smooth ➤ Continuous Zoom and Scroll 	<p><u>CFM,Power and Directionnal Modes:</u></p> <ul style="list-style-type: none"> ➤ COLOR GAIN ➤ Color inversion ➤ Wall Filter ➤ Continuous Zoom and Scroll
<p><u>Pulse Wave Mode</u></p> <ul style="list-style-type: none"> ➤ PW BASELINE ➤ PW Inversion ➤ PW GAIN ADJUSTMENT ➤ Audio Adjustment ➤ Wall Filter ➤ Automatic PW Optimization: Autoset[®] 	<p><u>3D/4D Acquisition</u></p> <ul style="list-style-type: none"> ➤ 3D Rendering ➤ Real Time 4D Mode ➤ Treshold (Opacification) ➤ Continuous Zoom ➤ 360° display rotation
IMAGE PROCESSING AND PRESENTATION	
<ul style="list-style-type: none"> ➤ Full digital beamformer ➤ Number of processing channels : 1,024 ➤ Displayed Image Depth : 2 – 30cm. Probe dependent ➤ Receiving focus: Dynamic continuous focusing ➤ Dynamic range: 150dB ➤ Gray scale 256 shades of gray ➤ Multi frequency/Wideband probes ➤ MI-TI Display 	<p><u>Cine Memory/Image Memory:</u></p> <ul style="list-style-type: none"> ➤ Cine Review: Loop or frame by frame ➤ Cine Memory: Sequences of up to 40 seconds each

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Certifications:

- The medical device described above is CE marked according to EC directive 93/42, Annex 2, Article 3.
- EN-ISO 13485:2016: Sonoscanner manufacturer of the medical device described above complies with the requirements for the implementation of a quality management system for medical devices

Safety Standards:

The products described above complies with the following safety standards:

- EN-ISO 60601-1: General requirements for basic safety and essential performance
- EN-ISO 60601-1-1: Electrical Medical Equipment
- EN-ISO 60601-1-2: Electromagnetic Compatibility
- EN-ISO 60601-1-4: Programmable Medical Systems
- EN-ISO 60601-2-37: Particular requirements for the basic safety and essential performance of medical ultrasound system and monitoring equipment

Sonoscanner reserves the right to make at any time and without notice any changes in the specifications and features described hereabove.

Please contact your Sonoscanner representative for the most up-to-date information.



Sonoscanner
6 rue André Voguet, 94200 Ivry Sur Seine. FRANCE.
www.sonoscanner.com. contact@sonoscanner.com