



CDU - 3908 4D Color Doppler Ultrasound





EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



>> APPLICATION

Abdomen / Cardiac / Obstetrics / Gynecology / Urology / Andrology / Small Parts / Vascular / Pediatrics / Musculoskeletal , etc.

ELECTRICAL POWER

Voltage	100 V~240 V
Power	DC12.8V 3A
Frequency	50/60 Hz

CONNECTIVITY/MEDIA/PERIPHERALS

Transducer Ports	4
USB Ports	2
Hard Disc	128GB (SSD), 200GB SSD (Optional)
Ethernet Port	2(100Mb/1000Mb)
External Display	VGA,HDMI,
Printer(Optional)	Video Printer, Laser Printer, Thermal Printer
Printing Area	Image, report, Image+report

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INE/IMAGE MEMORY

Cine Memory	1200 frame (max)
Cine Review Speed	1, 2, 4, 8
Cine Review Loop	YES
Cine Capture Function	YES

DICOM CONNECTIVITY

DICOM3.0 Compliant

IMAGE STORAGE

Storage Format: PNG, AVI, BMP, JPEG, DICOM Export Video Format: AVI Export Image Format: PNG, JPEG, BMP, DICOM USB Flash Drive



>> TECHNOLOGY

Panoramic Imaging Tech
All-digital signal processing Tech
Multi-beam formation Tech
Speckle Reduction Tech
Tissue Harmonic Imaging Tech
Dynamic Tissue Optimization Tech
Duplex & Triplex Synchronous Display
Directional Power Doppler
Imaging Parameters Preset
Tissue Special Image
PW Auto Trace
Update in line
CF+B mode in one screen
Complex Model Imaging
IMT auto measurements
Virtual convex array
Trapezoidal imaging
TDI function
CW , PW software

IF GENERAL PERFORMANCE

Digital Broadband	12288 channels
Beam-former	Re-programmable
Transmit Voltage	Adjustable (15 steps)
Beam-former Frequency Range	1~40 MHz

PAN/ZOOM

Real-Time Image Zoom, Zoom Range: 100%~400%, Up/Down/Left/Right Inversion



HARDWARE SPECIFICATION

LED Monitor

Size (Diagonal)	19"
Contrast Ratio	800:1
Resolution	1024×768 pixels
Brightness	230 cd/m2
Color Depth	24bit
Rotate Angle	± 90°
Grey Levels	256
Software	4D software, PW/CW software

Embedded Speakers

Impedance: 4Ω

Power: 5 W

UPS (Optional)

IMAGING PERFORMANCE

Probe	Convex Probe	Linear Probe	Intra-Cavity Probe	Micro-convex probe	4D volume probe	Phased array probe
Frequ	Central 3.5	Central 7.5	Central 6.5	Central 4.0	Central	(2.0/3.0,
ency	MHz	MHz	MHz	MHz	3.5 MHZ	3.5/4.0/5
	(2.0/3.0/3.5/	(6.0/6.5/7.5,	(5.0/6.0/6.5	(2.0/3.0,	(2.0, 3.0,	.0/6.0/6.
	4.0/5.5MHz)	10.0/12.0 MHZ)	/ 7.5 /9.0MHZ)	3.5/4.0/5.0/6. 0/6.5	3.5, 4.0, 5.5, 6.5MHz)	5 /7.5/9.0/ 10.0MHz
				/7.5/9.0MHz))
				pediatric		
				use		
				(2.0/3.0,		
				3.5/4.0/5.5,		
				6.5/7.5/10.0		
			MHz)			
Pitch	0.516mm	0.352mm	0.216 mm			
Radiu s	60mm	N/A	10 mm			
Eleme nts	128	128	128	128	128	128





USER INTERFACE

IMAGING MODES

B, 2B, 4B, M, B/M, B/C, B/D, B/C/D, B/CFM/D, PDI Color, DPDI Color, Dual Color, Simultaneous 2D/-Color Compound, PW, CW, Duplex/Triplex, CFM, CDE, PD, Directional PD, CD, B+CF

B-MODE

Maps	17
Focus Count	Max. 4
Gain	0~255
TGC	8 Sliders
Dynamic Range	0~150dB
Depth	Max. 30cm
Acoustic Power	0~15
Chroma	0~7
Grayscale Levels	256
Frame Rate	Max.1028Hz
Persistence/ Frame Average	Up to 7
Image Optimization	0~6
Top/Bottom/Left/Right Reverse	Yes
Speckle Reduction	Yes
Second Harmonics	Yes



M-Mode

Maps	16
Chroma	16
Sweep Speed	3
Gain	0~255
Distance	Point-to-Point
Max Steer Angle	15°
Diameter Reduction	Point-to-Point Heart Rate/Time/Distance/Slope
	Side-by-Side/Bottom

Color Mode

Gain	0~255
Color Maps	0~6
Doppler Steer Angles	7 Steps
Wall Filter	0~3
Spatial Filtering	0~3
Acoustical Power	0~15
Doppler Multi-Frequency	2MHz~10MHz
Line Density Max	256 Lines
Persistence/Frame Average	0~7
Bloodstream Gain	0~127
Packet Size	8~15 Baseline/Invert/Color ROI/M-Mode

PW Mode

Gain	0~255
D Linear Velocity	0~2
Doppler Steer Angles	7 Steps
Edge Enhancement	0~7
Wall Filtering	0~3
Audio	0~255
Correction Angle	80°/-80°
Doppler Multi-Frequency	2MHz~10MHz
Pulse Repetition Frequency	2khz~6khz
Chroma	0~7
Baseline Adjustment	0~6
Three Synchronizations	Yes
Spectrum Inversion	Yes

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MEASUREMENTS SPECIFICATIONS

Analysis Packages

Basic, Obstetrics, Gynecology, Urology, Andrology, Cardiac, Peripheral Vascular Venous, Small Parts, Orthopedic

Basic Measurement

B-mode basic measurement	Distance,	Angle, or	Perimeter	and	Area	(ellipse
	track-based method), Volume, Histogram, Sectional Map					
M-mode basic measurement	Heart Rate, Time, Distance, Speed					

OBSTETRICS

Applicable to multiple birth measurements.

All general measurements and calculations

Obstetrical data versions to calculate gestational age:

- Two fixed data revisions: Asia & Europe
- One editable data version: User Custom

— Each version can estimate the gestational age and expected date of confinement based on measured gestational sac (GS), biparietal diameter (BPD), crown-rump length (CRL), femur length (FL), humeral length (HL), abdominal transverse diameter (ATD), vertebral length (LV), occipitofrontal diameter (OFD), abdominal circumference (AC) and head circumference (HC)

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Obstetrical Report

Amniotic Fluid Index (AFI)

BPD/OFD, FL/AC, FL/BPD and HC/AC ratio

Estimate Weight Of Fetus

Gestational Age

Expected Date Of Confinement (LMP/BBT)

Fetal Biophysical Score

Fetus Growth Curve



Gynecology

All general measurements and calculations Uterus, Ovary, Follicle Gynecology Report

Urology

All general measurements and calculations Kidney, Bladder, Residual Urine Volume Urology Report

Andrology

All general measurements and calculations Prostate, Testis Prostate Specific Antigen (PSA) Prostate Specific Antigen Density (PSAD) Andrology report

Small Parts

All general measurements and calculations Thyroid, Mammary Gland, Nodule Small Parts Report

Cardiac

All general measurements and calculations Heart Rate Blood Flow Rate Left Ventricle Aorta Mitral Valve Ventricle (left/right) Area Stenosis (% area Sten) Vascular Diameter Stenosis (% Diam Sten) Body Surface Area (BSA) Cardiac Report

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Peripheral Vascular

All general measurements and calculations Area Stenosis Vessel Diameter Stenosis Peripheral Vascular Report IMT auto measurements

Venous

All general measurements and calculations Right and left extremity measurements Venous patient report

Orthopedic

All general measurements and calculations Right and left hip angle measurement Hip angle patient report

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HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost. Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings. AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

:Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent. Instruments





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies







Optical Emission Spectrophotometer





DSC/TGA



Chromatograph 3007



Chemistry Analyzer











Atomic Absorption

Spectrophotometer

URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800



Fully Automated CLIA

NOVA-2100 Chemistry Analyzer

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

Micro Plate

Reader/Washer

Ion Chromatograph

Water purification system





Semi Auto Bio







Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.





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