

CD - 3080Plus

3D Color Doppler



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



►► **Technical Specifications:**

• **System Overview**

Application

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

Electrical Power

Voltage: 100 V~240 V

Power: DC12.8V 3A

Frequency: 50/60 Hz

Conditions

Operating

Temperature: 5°C~40°C

Humidity: ≤80%

Pressure: 700hPa~1060hPa

Storage

Temperature: -5°C~40°C

Humidity: ≤80%

Pressure: 500hPa~1060hPa

Connectivity/Media/Peripherals

Transducer Ports: 3

USB Ports: 2

Hard Disc: 60GB (SSD)

120G/256GB SSD (Optional)

Footswitch: USB

Ethernet Port: 2(100Mb/1000Mb)

External Display: VGA

HDMI

USB Printer

Digital Laser Printer

Digital B/W Thermal Printer

Cine/Image Memory

Cine Memory: 1200 frame

Cine Review Speed: 1-5

Cine Review Loop

Cine Capture Function

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

Multibeam formation Tech

Speckle Reduction Tech

Tissue Harmonic Imaging Tech

Dynamic Tissue Optimization Tech

Duplex & Triplex Synchronous Display

Directional Power Doppler

Imaging Parameters Preset

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

►► **HarPTare Specifications:**

LCD Monitor

Size (Diagonal): 17"

Contrast Ratio: 800:1

Resolution: 1024×768 pixels

Brightness: 230 cd/m²

Color Depth: 24bit

Rotate Angle: ± 90°

Grey Levels: 256

UPS (Optional)

Imaging Performance

Startup Time (Max):

Avg. < 90 seconds

Preset Switching Time:

Avg. < 1 second

Storage Time (Image to Disk):

Avg. < 0.5 second

Transducers

Convex Probe

Frequency: Central 3.5 MHz

Min. 2.0 MHz

Max. 5.0 MHz

Pitch: 0.516 mm

Radius: 60 mm

Number of Elements: 128

Linear Probe:

Frequency: Central 7.5 MHz

Min. 6.0 MHz

Max. 12.0 MHz

Pitch: 0.352 mm

Radius: N/A

Number of Elements: 128

Trans-vaginal Probe:

Frequency: Central 6.5 MHz

Min. 5.0 MHz

Max. 9.0 MHz

Pitch: 0.216 mm

Radius: 10 mm

Number of Elements: 128

Phased Array Probe:

Frequency: Central 3.0 MHz

Min. 2.0 MHz , Max.5.0 MHz

Pitch: 0.300 mm

Radius: N/A

Number of Elements: 128

User Interface

- Intuitive Windows-based operating principles
- User-centric control panel with HomeBase layout and control customization
- On/Off task light and back-lit illumination of control panel
- Variable brightness indicates active state of function keys
- Easily accessible, full size QWERTY keyboard for text entry, function keys and system programming

Imaging Modes

B, 2B, 4B, M, B/M, B/C, B/D,

B/C/D, B/CFM/D, PDI

Color, Dual Color

Simultaneous 2D/Color Compound

PW, Duplex/Triplex

CFM, CDE, PD, Directional PD, CD

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

Speckle Reduction

Second Harmonics

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

Spectrum Inversion

Measurement Specifications

Analysis Packages

Basic

Obstetrics

Gynecology

Urology

Andrology

Cardiac

Peripheral Vascular

Venous

Small Parts

Orthopedic

Basic Measurement

B-mode basic measurement: Distance, Angle, Perimeter and Area (ellipse or track-based method), Volume,

Histogram, Sectional Map

M-mode basic measurement: Heart Rate, Time, Distance, Speed

Obstetrics

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) 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

Peripheral Vascular

All general measurements and calculations

Area Stenosis

Vessel Diameter Stenosis

Peripheral Vascular Report

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

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 Maintenance 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, trouble-shooting.

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

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



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, Manufacturing, 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



UV/VIS
Spectro 2080+
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Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



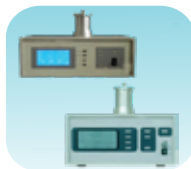
Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

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



Analytical Foundation

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 personalities 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 DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W: www.analycalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

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