

Digital Mobile Color Doppler System

Apogee 2100 Plus Data Sheet

Endowed with promising performance across different applications, Apogee 2100 Plus provides affordable versatility, making itself a perfect choice for doctors with limited budget.

Highlights

- *Nanoview*
- *MFI*
- *Xbeam*
- *Panoscope*
- *VS Flow*
- *Anatomic M mode*
- *Color M mode*
- *4D Pro*
- *TDI*
- *Elastography*
- *Needle Enhancement*
- *S-Helper*



General Specification

Dimension

- Gross dimension
 - H 630mm * W 330mm * D 510mm (2 probe)
 - H 630mm * W 420mm * D 510mm (4 probe)
 - H 640mm * W 640mm * D 510mm (2 probe & BXX-05 travelling bag)
 - H 670mm * W 500mm * D 320mm (BXX-02 travelling case)
- Net dimension
 - H 390mm * W 360mm * D 145mm (without probe holder)
 - H 390mm * W 420mm * D 171mm (with probe holder)

Weight

- Gross weight
 - 14.5kg (2 probes)
 - 18kg (4 probes)
 - 25.5kg (BXX-02 travelling case)
- Net weight
 - 7.9kg (without battery)
 - 0.56kg (single battery)

Power Requirements

- Voltage: 100~240V~
- Frequency: 50Hz/60Hz
- Rated Power: 220VA

Operation Conditions

- Ambient temperature: 0°C to +40°C
- Relative humidity: 30% to 85%
- Atmospheric Pressure: 700hPa to 1060hPa

Stored Conditions

- Ambient temperature: -20°C to +60°C
- Relative humidity: 15% to 93%
- Atmospheric Pressure: 500hPa ~ 1060hPa

Connectivity

- Video out port
- S-Video out port
- VGA out port
- 2 USB port
- Printer control port
- HDMI digital port
- Foot Switch port
- Network port
- ECG port
- Adapter port
- And others

Appearance

- Ergonomic appearance
- 15-inch high resolution monitor
 - Can be flipped up to 35°
- Visual Angle:
 - Left and right side: 170°
 - Up and down: 170°
- Resolution: 1024 × 768
- Backlit keyboard, 8 TGC
- Transparent keyboard membrane for minor languages
- Lithium battery, detachable
 - Endurance time: more than 50 min
- Two active probe connectors
- Two probe holders
- Hard disk 1TB
- And others

System Overview

Applications

- Abdomen
- Urology
- Gynecology
- Obstetrics (1st Trimester, 2nd and 3rd

- Trimesters)
- Fetal echo
 - Multifetation Gest
 - Peripheral Nerve
 - Thyroid
 - Breast
 - Testes
 - Peripheral Vein
 - Peripheral Arteries
 - MSK
 - Podiatry
 - Superficial
 - Carotid
 - Cardiology
 - Paediatrics Cardiac
 - Neurology (TCD)
 - Endocrine
 - And others

Transducer Types

- Convex probe
- Micro-convex probe
- Linear probe
- Trans vaginal probe
- Trans rectal probe
- Biplane probe
- 4D convex probe
- Phased array probe
- And others

Standard Features

- Auto-Fit
- Nanoview
- Trapezoidal/ Extend Imaging
- Tissue Harmonic Imaging
- Exam Type Customization
- Bodymark Customization
- MFI (Inversion THI)

- XBeam
- Panoscope
- Auto IMT
- Auto Volume
- Semi-Auto EF
- CFM/CPA/DPA
- VS Flow
- Pulse Wave Doppler
- Duplex / Triplex
- HPRF
- Anatomic M mode
- TEI index
- Free hand 3D
- Horizontal Scale
- 4D Lite
- Smarchive
- Auto PW trace and calculate
- Semi auto PW trace and calculate
- Image Auto-Fit
- Tissue Specificity Imaging

Optional Features

- CW
- ECG
- 4D Pro
- Lumi 4D
- Color M mode
- TDI
- Elastography
- Needle Enhancement
- SonoAir
- DICOM 3.0
- S-Helper
- And others

Standard Accessories

- Power Cable
- Operation Manual

- Printer control cable
- S-Video cable
- BNC/RCA cable
- Dust-proof cover
- Recovery system CD
- Probe holder
- Adapter

Optional Accessories

- B/W or color Video printer
- LaserJet or inkjet printer
- Biopsy guide for convex or linear probe
- Biopsy guide for trans vaginal or transrectal probe
- Foot switch
- Trolley
- Special probe holder for Small Size Probe in trolley
- ECG cable
- Printer tray
- Plastic trolley case
- Trolley backpack
- Wireless adapter
- And others

Display Mode

- B, 2B, 4B mode
- M, B+M mode
- B+C+M
- B+C mode
- B+CPA, B+PDI mode
- B+VS Flow mode
- B+PW mode
- B+CFM+PW, B+VS+PW
- B+CPA+PW, B+DPA+PW
- B+CW mode
- B+CFM+CW
- B+E mode

- B+TDI, B+TDI+PW
- Split B/Color real time mode
- 3D, 4D mode
- And others

System Parameters

Zoom

- HD Zoom(with sample box)
- Full-View Zoom
- Full Screen Zoom
- Realtime Zoom mix times: $\geq x60.0$

Focus

- Continuous dynamic focus
- 1~8 selectable transmit focus
- Focus pos
- And others

Memory

- 2D avi record (60 min)
- 2D cinelooop record (max.2000 frames)
- M-mode
- PW-mode
- CW-mode
- 4D-mode
- And others

2D Imaging Processing

- TGC slide pots
- Gain
- Depth
- Frequency
- Dynamic range adjustable
- Enhancement
- Smooth
- Nanoview
- Persistence
- Zoom
- Chroma

- Grayscale
- Power
- Scan angle
- B steer
- B rotation
- Line density
- Inversion
- Focus number
- XBeam
- And others

M Mode Imaging Processing

- Gain
- Sweep speed
- Maps
- Chroma
- Display layout
- AMM-angle
- AMM-line
- And others

Color/CPA Mode Imaging Processing

- Gain control
- Pulse repetition frequency
- Wall filter
- C Priority
- C Gate
- Median Filter
- Threshold
- Color Map
- Smooth
- Color persistence
- Line density
- Color enhancement
- Color frequency
- Power:
- Baseline

- Steer
- And others

PW Mode Imaging Processing

- Gain
- D map
- Frequency
- Chroma
- PRFd
- Baseline:
- Wall filter
- Angle
- Sampling volume
- Volume
- D Speed
- Smooth
- Power
- Steer
- Display layout
- And others

CW Mode Imaging Processing

- Gain
- Map
- Speed
- Volume
- Power
- Smooth
- Chroma
- Wall filter
- Angle
- Scale
- Velocity
- Display layout
- And others

TDI Mode Imaging Processing

- C Gain
- C PER

- C Freq
- PRFc
- Wall filter
- Baseline
- C Map
- Thred
- C Prior
- C PWR
- C SMO
- C Gate
- M Filter
- C LD:
- C Speed
- C ENH
- And others

ECG Mode Imaging Processing

- Gain
- Position
- Interval
- ESP
- Color
- Hide
- Heart rate display
- And others

4D Pro Image Processing

- Zoom
- Color
- Smooth
- Scan Rate
- Opacity Map
- Opacity Pos
- nSlice:
 - Planes
 - Space
- Q Cut
- Any Cut

- And others

Elastography Imaging processing

- Dual live with E and B mode
- Compressure pilot lamp
- Compressure guide with motion curves
- Clarity
- Smooth
- Map
- Persistence
- Dynamic range
- Frequency
- Gain
- And others

Needle Guide

- Guide position: L/R, Rotation, translation
- Guide line: Intensity control
- Guide line display: one/dual lines
- Angle adjust
- Needle enhancement
- And others

General Measurement

- B Mode
- M Mode
- Color Mode
- PW/CW Mode

Calculation Package

- Abdomen
- Urology
- Gynecology
- Obstetrics (1st Trimester)
- Obstetrics (2nd and 3rd Trimesters)
- Carotid
- Peripheral vascular
- Thyroid
- Eye Ball

- Testes
- Neonatal
- Pediatrics (Orthopedics)
- Cardiology
- TCD(Transcranial)
- Emergency
- Peripheral Nerve
- Endocrine
- Pelvic Floor

Identification

Quality Standards

- ISO 9001:2015
- ISO 13485:2016

Conformance Standards

- UL 60601-1
- EN 60601-1 and IEC 60601-1
- EN 60601-1-1 and IEC 60601-1-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-4 and IEC 60601-1-4
- EN 60601-1-6 and IEC 60601-1-6
- EN 60601-2-37 and IEC 60601-2-37
- EN 62304 and IEC 62304

CE Declaration

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective devices / device categories in accordance with MDI Annex II.

FDA Clearance

- PMN/510(k)