Canon

Aplio *a550*

Aplio *a450*

Aplio *a-series*

Making Echo Easier

CV

Cardiovascular Imaging

Aplio *a-series*

Making Echo Easier

IQ for Technically Difficult Patients

From the smallest to the toughest patients, Aplio's innovative Beam focusing architecture with dramatically increased processing power provides outstanding imaging clarity and definition with significantly enhanced penetration.*

Automating Tedious Measurements

Industry trends demonstrate volumes are increasing, patients are getting larger[1] and protocols are getting longer[2]. To help streamline workflow, Aplio i-series systems are automating many of the most time-consuming measurements.

Optimizing Sonographer Comfort

Aplio i-series ultrasound systems are Healthy Sonographer Platforms with adaptive ergonomics enabling you to conform the system to the patient, user and exam, in order to improve comfort and support an improved patient experience.

Aplio a550 integrates industry-leading imaging technologies, advanced applications and intuitive controls for the busy clinician in the routine imaging department. The Aplio a450 is a feature-rich solution that can be scaled to suit a wide range of diagnostic portfolios. Both systems provide premium image quality, intuitive operation and ergonomics inherited from Canon Medical's top-of-the-line equipment.

*Compared to Aplio 500

Beam Forming Architecture

Three technologies that work together to cumulatively optimize image quality:

Transmitting
Advanced-Sync Pulser

Advanced-Sync Pulser
Combined waveforms create fine beam focus in depth direction
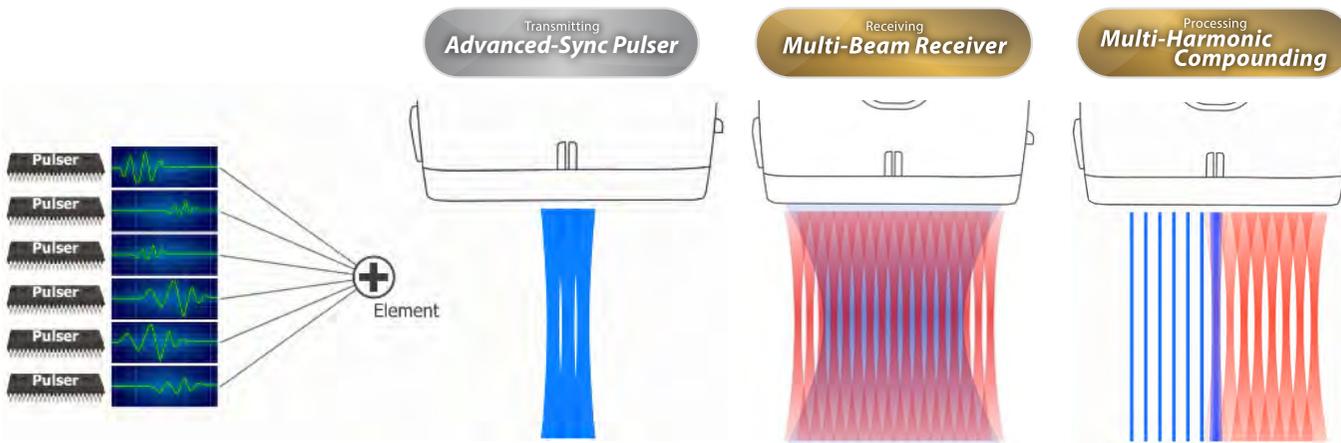
Receiving
Multi-Beam Receiver

Multi-Beam Receiver:
Enables wide area reception of signals

Processing
Multi-Harmonic Compounding

Multi-Harmonic Compounding:
Provides excellent beam processing power

Pulser
Pulser
Pulser
Pulser
Pulser
Pulser

Element

Transmitting
Advanced-Sync Pulser

Receiving
Multi-Beam Receiver

Processing
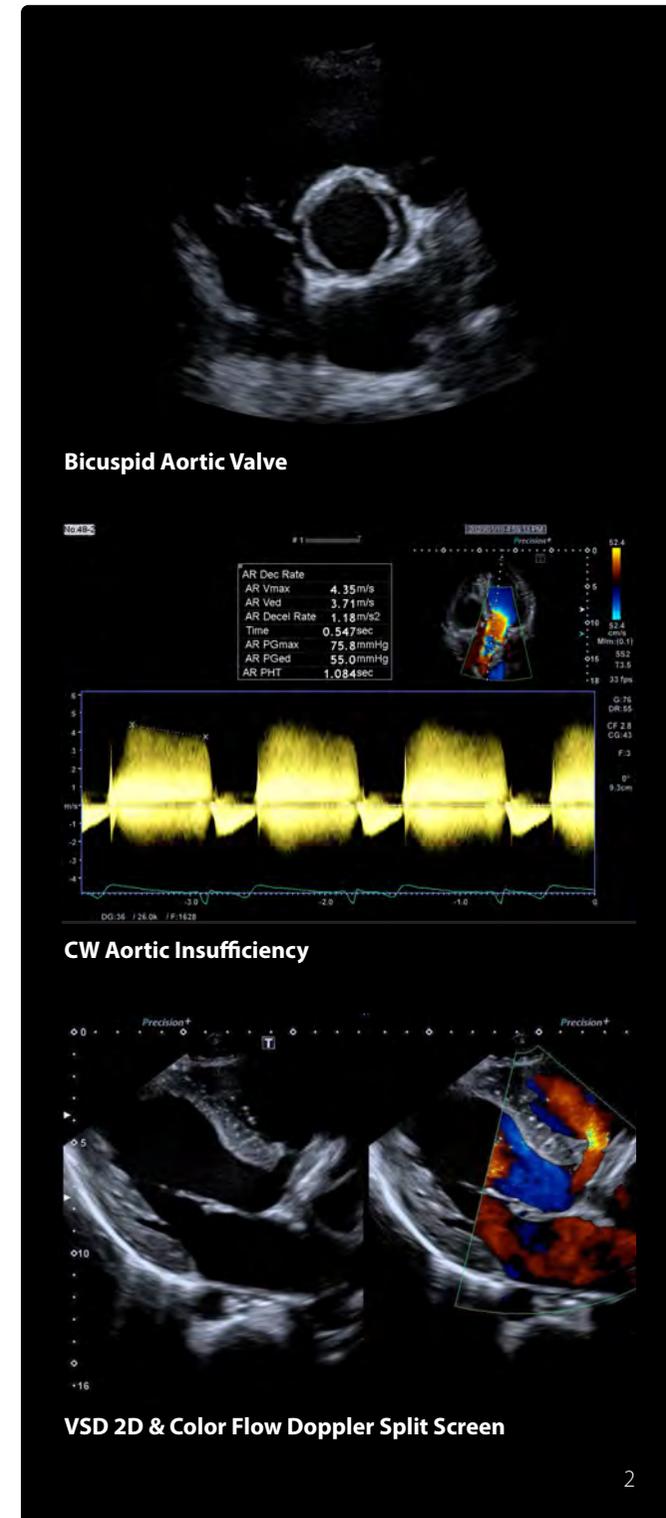**Multi-Harmonic Compounding**

Advanced-Sync Pulser

Simultaneous Transmission of Variable Waveforms

Multi-Beam Receiver

Wide Area Simultaneous Multi-line Receive

Multi-Harmonic Compounding

Finer Lateral Resolution Compounding Adjacent Lines

Bicuspid Aortic Valve

AR Dec Rate   4.35m/s
AR Vmax   3.71m/s
AR Ved
AR Decel Rate   1.18m/s2
Time   0.547sec
AR PGmax   75.8mmHg
AR PGed   55.0mmHg
AR PHT   1.084sec

CW Aortic Insufficiency

VSD 2D & Color Flow Doppler Split Screen

Auto EF with GLS

☑ Automatically calculates Ejection Fraction while adding Global Longitudinal Strain into the results. This unique and standard feature** streamlines workflow while integrating Strain analysis into routine exams, without adding steps or time.
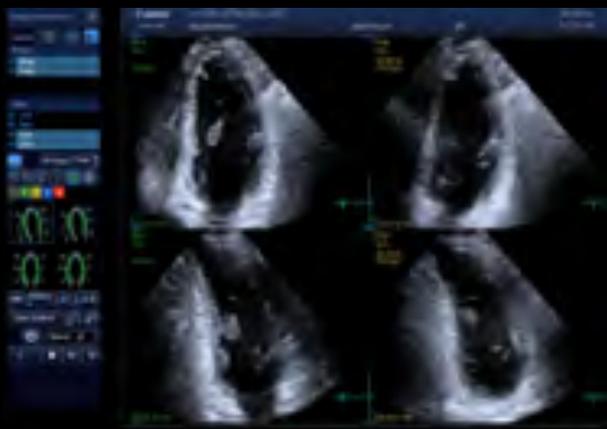
Stress Echo

☑ Canon Medical's comprehensive Stress Echo package enables rapid view acquisition, rapid selection and easy regional wall motion scoring of both standard and user defined protocols for exercise and pharmacological stress echoes.

☑ In addition to standard protocols, it can also be customized to user specifications, including color flow and spectral Doppler.

☑ It is also possible to start wall motion tracking from the collected images to perform strain and wall motion analysis.
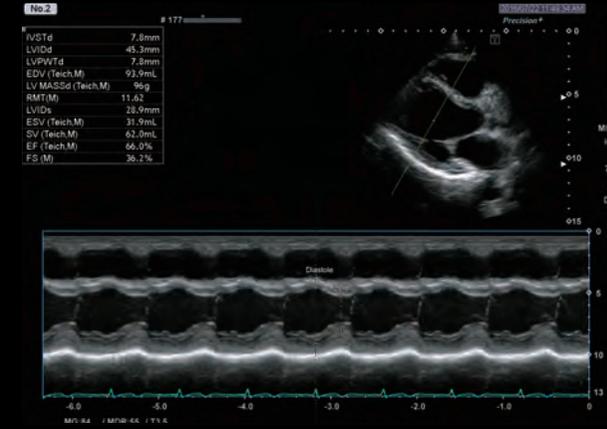
Flex-M Mode

☑ Consistently acquire a correct M-mode image. Flex-M functionality enables user to anatomically adjust M-Modes on patients with off-axis views. M-mode tracings can be made online or offline.

Auto EF with GLS

Stress Echo

Flex-M Mode

2D WMT (Strain Analysis)

☑ Taking the Stress Out of Strain. Aplio Series' Innovative 2D Wall Motion Tracking (2D WMT) technology measures strain in just a few clicks with easier workflow and faster results.*

☑ Comprehensive speckle-tracking, including layer-specific strain and GLS values, can present important data about myocardial function, heart failure, and cardiotoxicity cases during initial and sequential evaluation.[3]

☑ In addition to strain and timing information, ejection fraction and volumes are integrated into the results.

☑ All calculations can be done on live or stored images with the help of Raw Data.

Auto E/A

☑ By automatically recognizing mitral valve inflow, E and A waves, E and A waves can be measured with one button click.

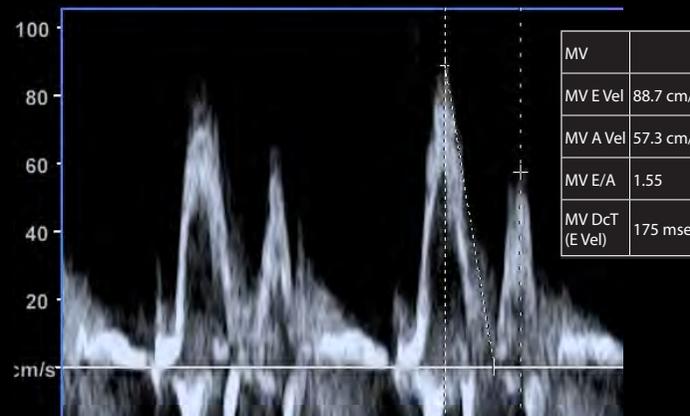*Compared to Aplio 500
**Available option

References
1. NCHS, National Health and Nutrition Examination Survey, 1999–2016
2. Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults
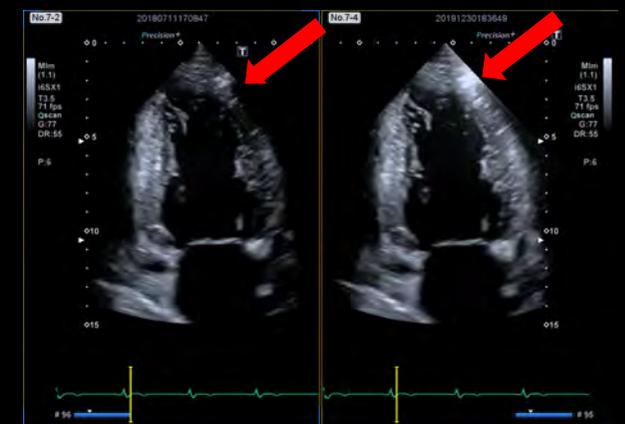3. JASE 2019;32:553-579

Raw Data

☑ Aplio's RAW Data capability enables you to efficiently scan and acquire images (even on a remote access tablet) and then manipulate multiple image parameters, measurements and annotations later.

2D WMT 4CH

MV	
MV E Vel	88.7 cm/s
MV A Vel	57.3 cm/s
MV E/A	1.55
MV DcT (E Vel)	175 msec

Auto E/A measurement

Acquired Image **Post-processed Image (Lateral Gain Enhanced)**

Consistent high-quality results, outstanding ergonomics

Vascular exams can be very challenging. Aplio dedicated transducers ensure excellent imaging resolution and sensitivity for vascular applications, while automated scan protocols and measurements help you improve efficiency and consistency.

Auto-Doppler trace

Aplio's clinical protocol assistant provides a reliable method to ensure that complex exams are done consistently patient after patient. Once activated, a clear, easy-to-read menu will guide you step by step through the entire exam.

Access all areas

Aplio's large, tablet-style touch screen with three interactive zones allows you to quickly browse and select the desired function, while the rest of the display remains unchanged.

Better diagnostics start here

Designed to increase efficiency, the system's lightweight transducers feature outstanding clinical versatility, ergonomic shapes and thin, super-flexible cables. Aplio a-series systems are compatible with a wide range of transducers from across the Aplio product range, ensuring high productivity while helping reduce cost for specialty probes.

Aplio a-series

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