

## Vetus 9

Veterinary Diagnostic Ultrasound System

# Premium care for animal



Powered by **ZST+**



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[service@mindrayanimal.com](mailto:service@mindrayanimal.com)

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# Powerful | Focus | Speed

At present, an increasing number of challenging cases and heavy workloads are driving veterinarians to explore advanced methods to make their clinical practice more confident and productive.

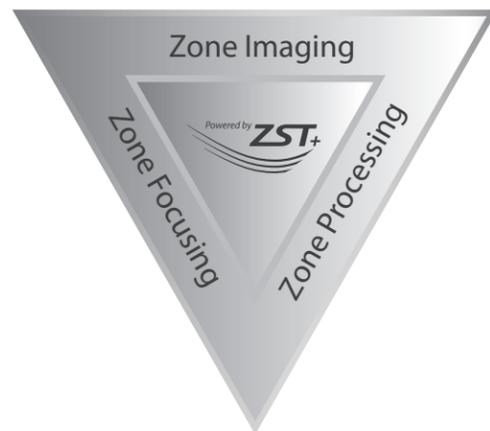
To meet the diverse demands of veterinary practice, a revolutionary premium ultrasound system is introduced—Vetus 9. Powered by ZONE Sonography™ Technology (ZST), Vetus 9 brings the ultrasound imaging performance for animals to the next level and provides excellent solutions in dedicated applications with leading image quality, superb diagnostic tools, and efficient workflow.

Similar to the inherent fast and sharp spirit of a jaguar, Vetus 9 delivers 10 times faster imaging, dynamic pixel focusing, and original echo signal recalling technologies, enabling veterinarians to deal with all clinical scenarios with ease.



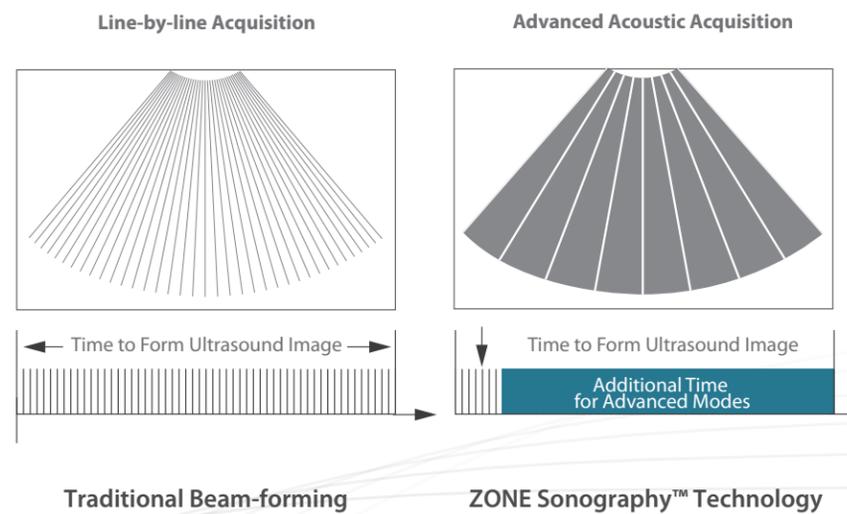
# Powerful ZST+ Platform

ZST+ platform is an extraordinary innovation, representing an ultrasound technology evolution. Transforming ultrasound metrics from conventional beam-forming to channel-based processing. It overcomes the traditional trade-off limitation among spatial resolution, temporal resolution, and tissue uniformity, providing exceptional image quality in diverse veterinary clinical scenarios, and delivering remarkable confidence.



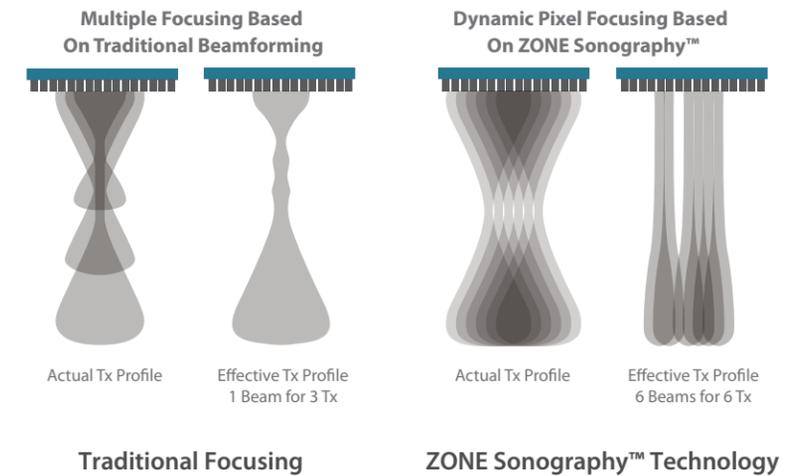
## Zone Imaging

Most companion animals' hearts beat faster than human hearts, prompting veterinarians to demand next level ultrasonic imaging technology. Unlike traditional ultrasound, ZST+ can transmit and receive a relatively smaller number of larger sonographic zones, so as to capture real-time images of animals of all species.



## Zone Focusing

The body size of animals varies greatly, and the focal positions are different for veterinary ultrasound images. ZST+ platform realized the zone focusing throughout the whole field of view with dynamic pixel focusing technology, ensuring the images from superficial skin to deep organs of any animals are in the focus state in real-time, in order to reduce the risk of useful clinical information loss.



## Zone Processing

ZST+ captures and stores the complete acoustic raw data set. The acquisition and storage of ultrasound raw data can ensure diagnostic accuracy and improve imaging resolution. Zone processing allows the system to do retrospective processing on channel data and also permits users to modify numerous imaging parameters on stored images to maximize clinical output.

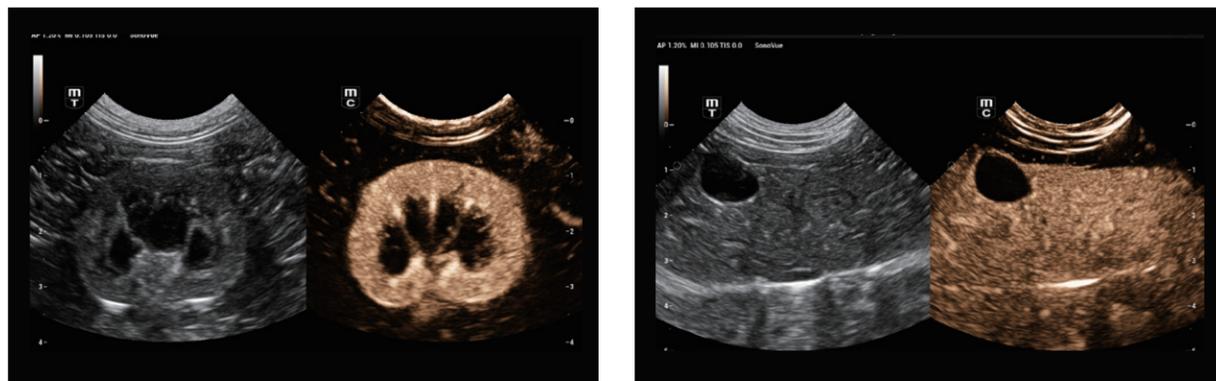


# Focus on Diagnosis

## Abdomen Solution

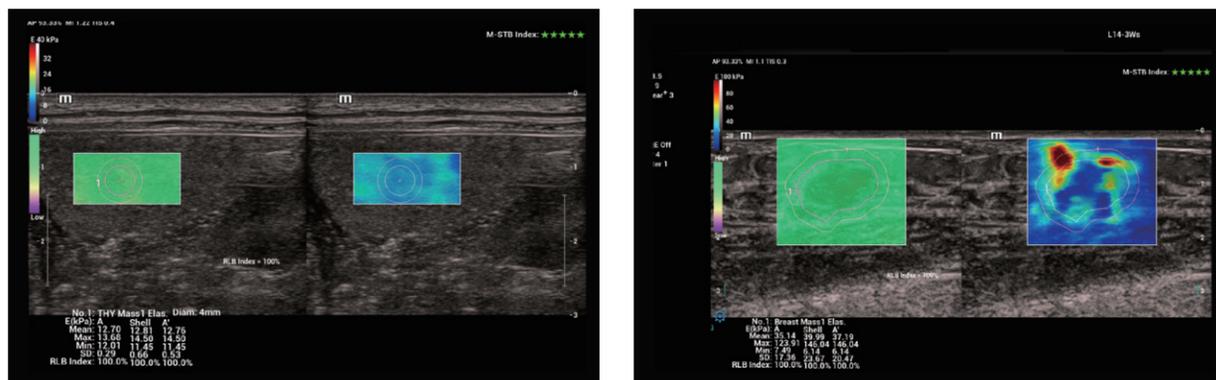
### Focal lesion diagnosis with perfusion -- UWN<sup>+</sup> Contrast Imaging

It detects and utilizes both the 2nd harmonic and non-linear fundamental signals, generating significantly enhanced images, resulting in greater sensitivity of minor signals and longer agent duration with lower MI. The Micro Flow Enhancement mode provides an even better visualization of tiny vessel perfusion.



### Innovative stiffness assessment -- STE

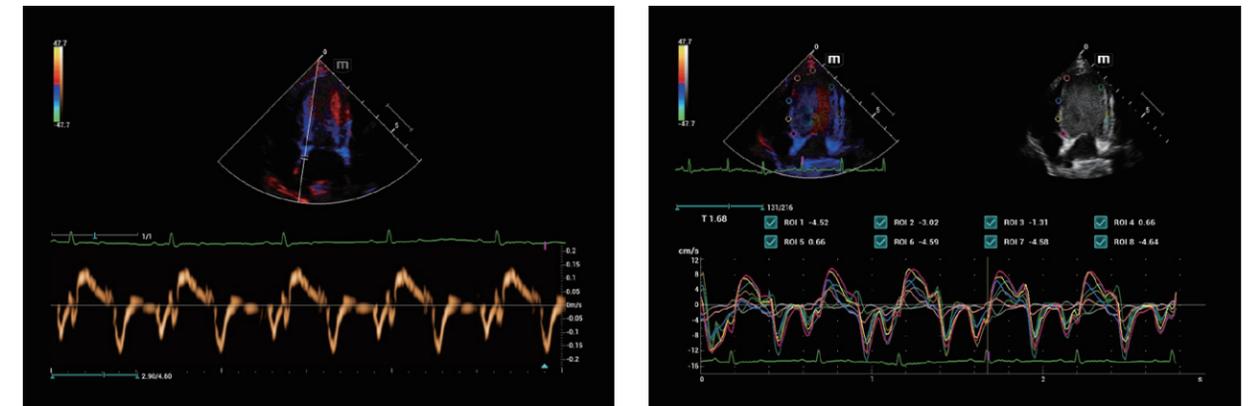
The Sound Touch Elastography (STE) delivers real-time 2D shear wave elastography imaging. It provides quantitative analysis based on tissue stiffness assessment. With higher sensitivity and reproducibility powered by ZST<sup>+</sup> platform, it is especially useful for mass staging and progression in veterinary oncology applications. The motion stability index and reliability map further enhance shear wave quality control during the exam for all range animals.



## Cardiology Solution

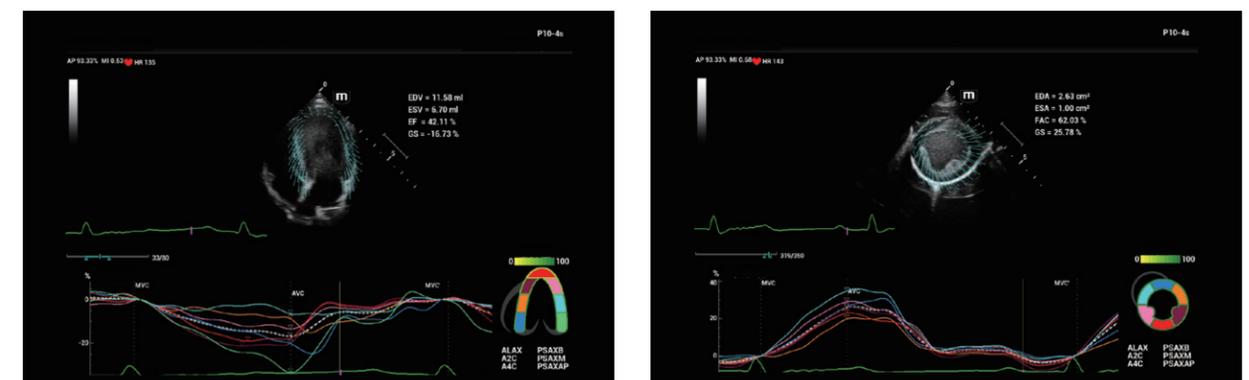
### Quantitative analysis of myocardial movement and synchronization -- TDI QA

Tissue Doppler Imaging with Quantitative Analysis (TDI QA) supports 4 TDI imaging modes, including TVI, TEI, TVD, and TVM, providing multiple assays for assessing canine and feline cardiac diastolic and myocardial motility. In addition, TDI QA with max 8 ROI enables simultaneous analyses of 8 regions of myocardium, inclusive of the speed of myocardial movement, myocardial strain, strain rate, and myocardial synchrony.



### Angle-independent myocardial movement evaluation -- TT QA

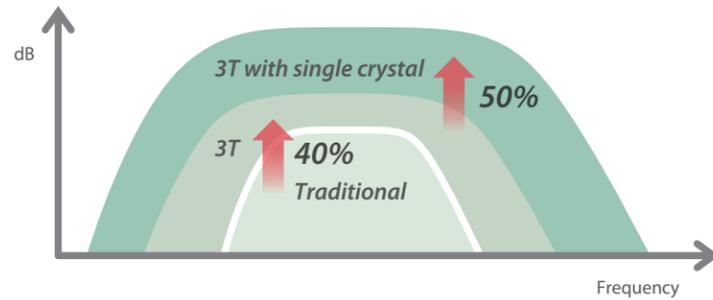
Tissue Tracking with Quantitative Analysis (TT QA) tracks the myocardial motion by detection of 2D speckle patterns and provides angle-independent and precise evaluation of myocardial movement, allowing multi-dimensional data support for early diagnosis and prognostic assessment of canine and feline cardiomyopathy.



# Transducer Solution

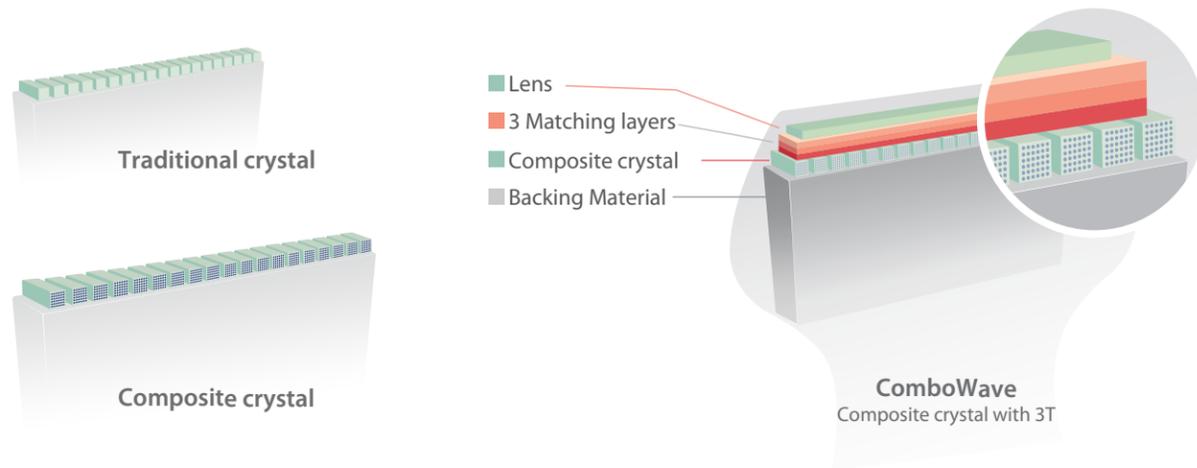
## Single crystal transducers with 3T technology

On top of Mindray Animal Medical's 3T technology, the brand-new single crystal transducers provide a wider bandwidth to offer greatly improved penetration and higher lateral resolution, resulting in an optimum scanning solution for abdominal, cardiac, and difficult-to-image animals.



## ComboWave transducers with 3T technology

Compared with traditional transducers, ComboWave transducers utilize a new type of composite piezoelectric material to dramatically optimize the acoustic spectrum and reduce acoustic impedance. Further integrated with Mindray Animal Medical's unique 3T technology, the ComboWave linear transducers allow you to experience outstanding performance with advanced image resolution and uniformity.



# Thoughtful Design for Optimal Convenience

**23.8"** bezel-less full-screen with large images for immersive experience  
Eye protection monitor with adaptive brightness adjustment

**15.6"** full-HD touch screen with intuitive interaction  
Short-cut switch of latest used transducers and exams

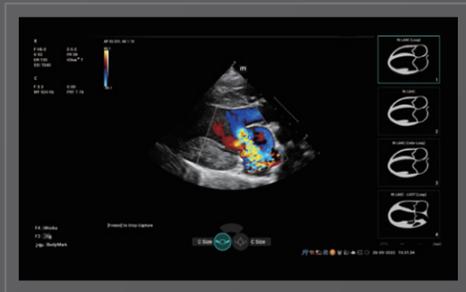
**5** transducers with elevated design for comfortable connecting

**26dB** user-friendly design for a quiet operating experience



# Speed up Your Scanning

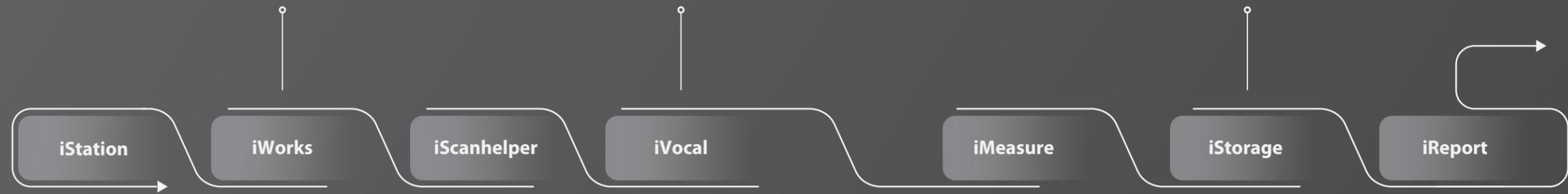
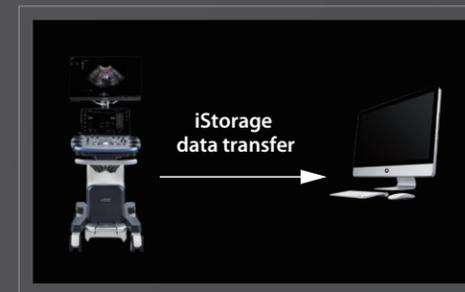
Standardize and simplify the workflow, reduce 50% exam time and 80% keystrokes



Remotely control the system by voice commands, free your hands from the machine



Animal information center, can export and import the data with PC at ease

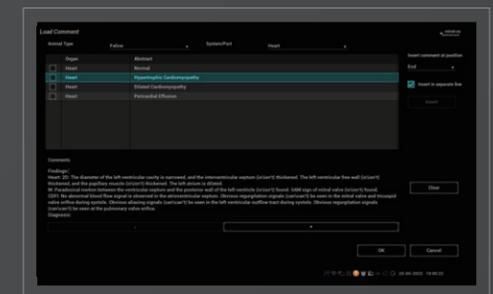
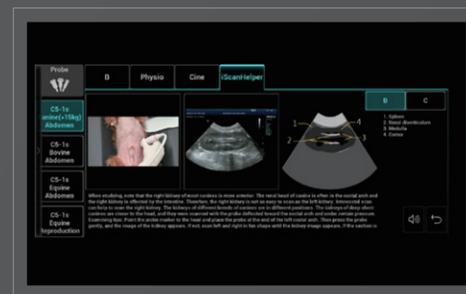
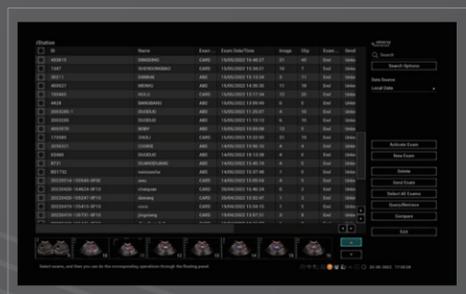


Full-stack animal information management system

Expert around you, provide scanning reference images and demonstration guide

Indicate potential or suspected clinical conditions immediately

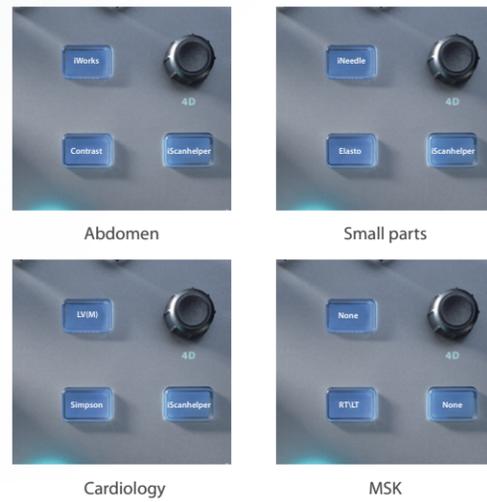
Provide customized report templates with professional comments



# Superb User Experience

## Intelligent control panel -- iConsole

The intelligent and clinical exam-specific control panel layout is a breakthrough innovation designed to optimally adapt to different clinical scenarios, such as ABD, CAR, SMP, MSK, etc. Based on six special E-ink keys with digital screens, iConsole can adaptively adjust the layout and key functions during exam shifts. User-define is available for personalized settings and the digital display on E-ink keys will not disappear even during power down.



## Just fold it up and go

The Vetus 9 system can be folded to a minimum 1 meter height and easily transported by MPV (Multi-Purpose Vehicle) for easy and timely mobile clinical service. The system's 55cm body width allows for seamless access through doors and transport across clinical departments.



## Protective design for veterinary care

The Vetus 9 system is equipped with veterinarian-specific, easy-to-clean protective designs to protect the system from normal wear and tear.



Splash-resistant keyboard protection film  
Reliable cleaning and disinfection



Transducer socket covers  
Keep dust and animal hair away from the main unit

## Bedside exams without power cables

Long-life battery allows up to 2 hours of continuous ultrasound scanning. No need for power cables even during bedside exams.



## Auto wake-up of residual power tracking

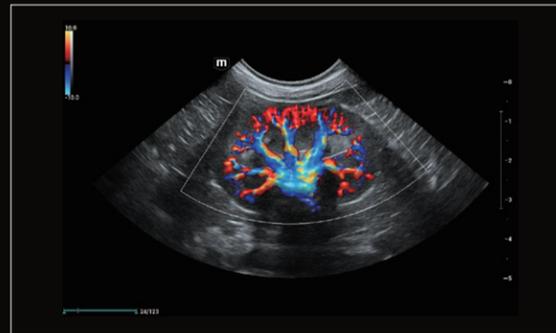
When holding the right handle during system stand-by or power-off status, the light indicator of residual power will be automatically activated for timely power reminder.



\*Battery is optional configuration

# A New Standard of Image Clarity

Based on the leading-edge ZST+ platform, Vetus 9 redefines a new standard of image performance to meet the needs of the challenging clinical practice.



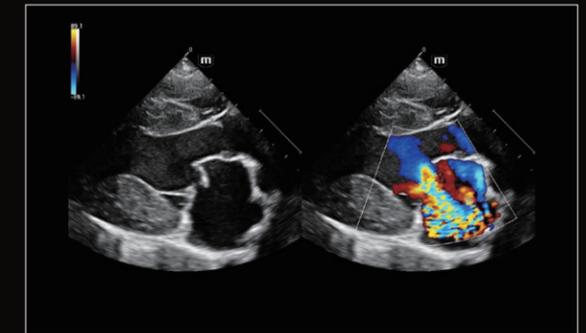
Canine Kidney Glazing Flow



Feline Bile Duct Dilation



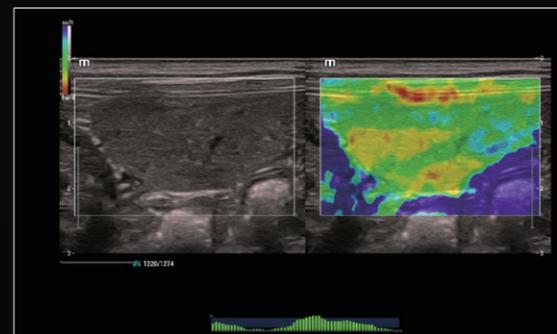
Feline Pericardial Effusion



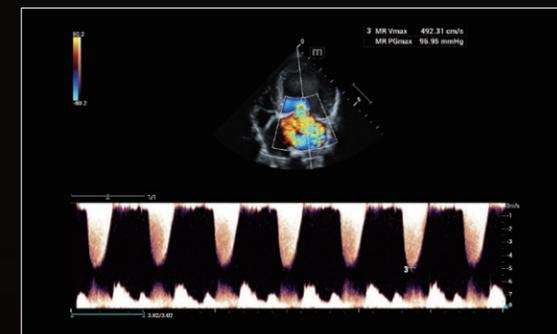
Canine Mitral Regurgitation



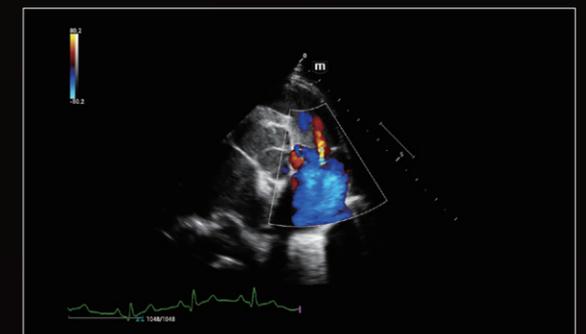
Canine Liver and Kidney Plane



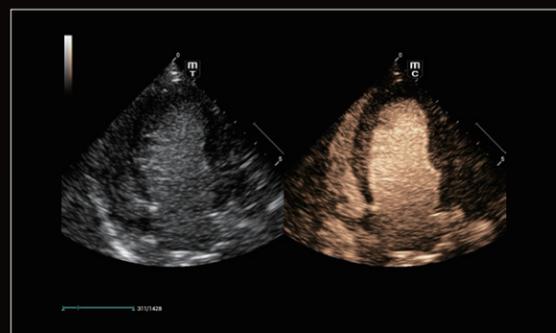
Canine Spleen Natural Touch Elastography



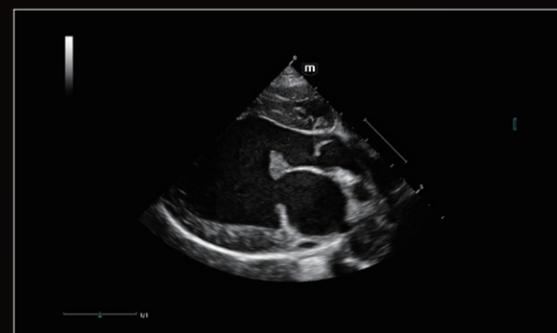
Canine Mitral Regurgitation CW



Canine Pulmonary Regurgitation



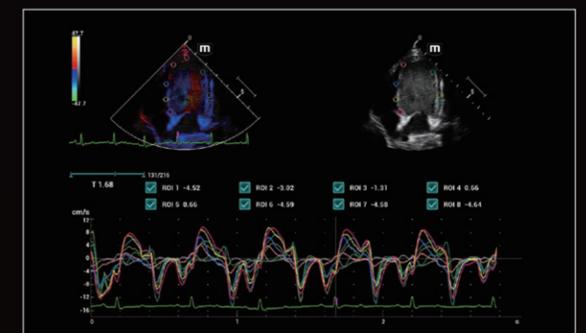
Canine Left Ventricular Opacification (LVO)



Canine Myxomatous Mitral Valve Disease (MMVD)



Canine Pulmonary Stenosis



Canine TDI QA