

Bulky Carts or Cables Slow You Down?

WIRELESS HANDHELD ULTRASOUND



Intuitive, Convenient, Fast and Affordable

ABOUT US

Edge Life Technologies opens the door to the latest innovations in ultrasound. Pocket-sized, wireless (cable-free), technology that leverages the multi-threaded computing power in mobile devices and desktops. Links to iOS and Android to produce extraordinary real-time images at a mere fraction of the cost.

Weighing only 4-8 oz and only 4-6 inches long, this sleek, powerful device fits comfortably in your pocket and the palm of your hand.

Best of all, it makes a lasting impression on your clients. Showing them exactly what's taking place in their pet's body leads to more patients and professional referrals. Plus additional billings, followups, and procedures. More convenient, time saving, and less expensive for your clients, without the need for another appointment or referring them elsewhere.

During the last five years, over twenty thousand units have been sold worldwide with less than a 1% defect rate. They are seen in top hospitals, professional schools, clinics, private practices, emergency services, and military units worldwide (US military tested and approved).

Advantages include rapid, point-of-care diagnostics to facilitate immediate diagnosis, triage, and initiation of treatment.

Transfers DICOM images and cine-loops directly to PACS servers for patient records, consultant evaluation, and long-term storage.

FASTER AND BETTER

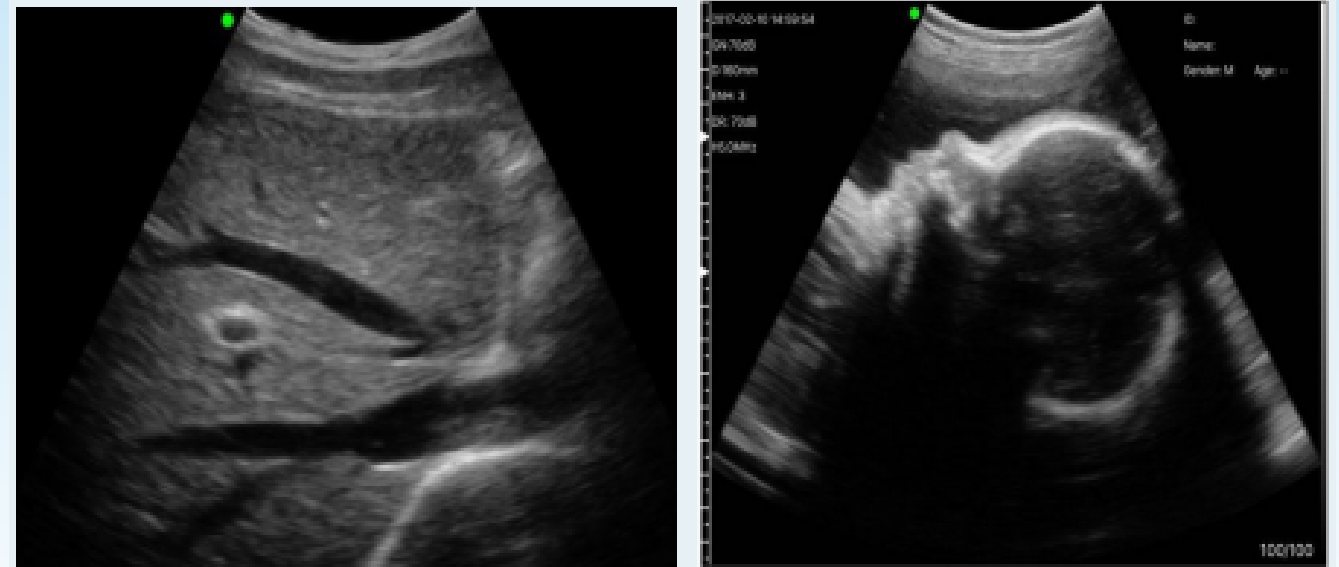
Wireless scanning enables you walk to wherever your patients are instead of moving them to a dedicated exam room.

Simple, lightweight, convenient, time saving, practical and cost effective. Eliminates navigating around anxious pets while tethered to tangling wires.

An easy-to-use app reduces the training time, costs, and learning curve.

Clients appreciate imaging as part of their pet's exam, without waiting for big equipment. A small, pocket-sized ultrasound doesn't frighten the animal, so exams can be done much quicker with better images. And showing your client the images makes explanations faster and simpler.

An ultrasound cover or a glove during exams or procedures can avoid cross contamination and simplify the process to disinfect. Huge savings on maintenance cost.



Wireless Handheld Ultrasound

How Does It Work?

We condensed the features of a large cart system into a small circuit board with a WiFi router built right inside. The results are compact and lightweight, with amazing images on your smartphone or tablet. This eliminates the need for an external router, internet connection, or a cable. Saves time. Easier and more efficient. Crisp, visual images during any clinical procedure or exam.

An Imaging Tool

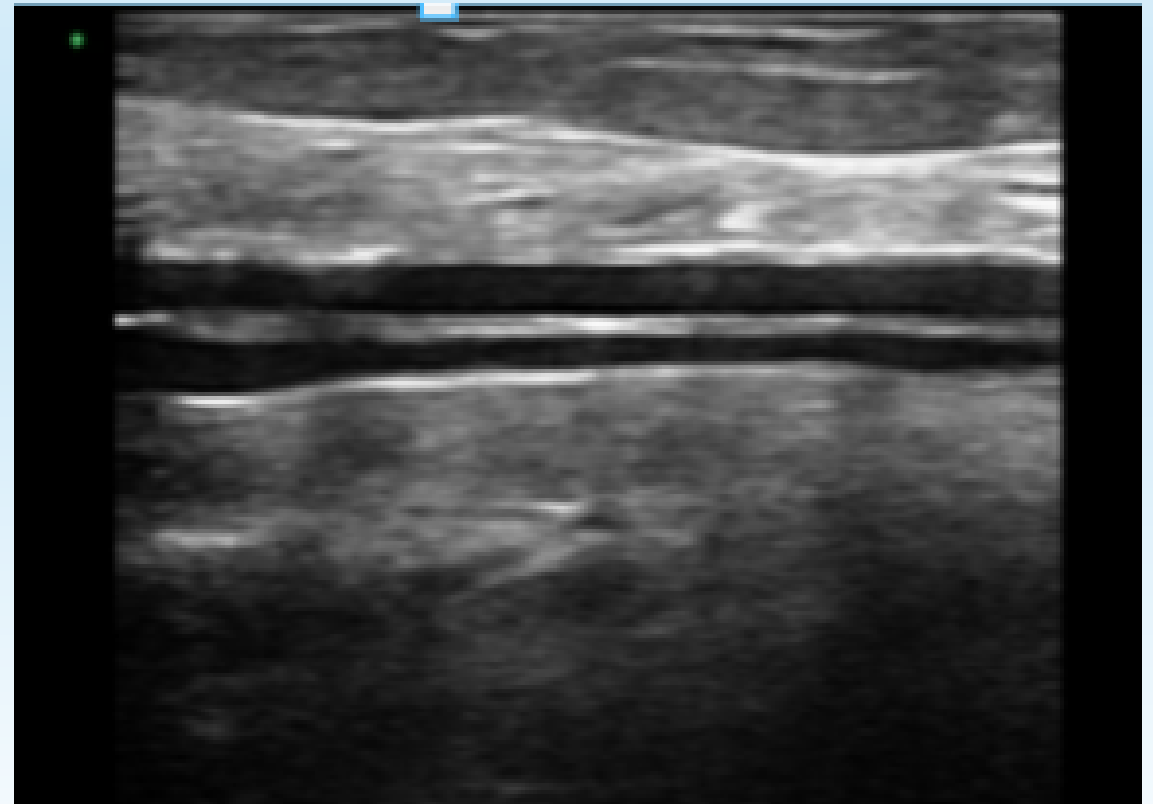
Imagine every doctor with a handheld ultrasound in their pocket. Ready anytime to check any patient from head to toe. Now Edge is making this vision of the future a reality today. Why rely only on a stethoscope when you can also take a look inside and see?

Waterproof

- Reduces cross-contamination
- Easy to clean and disinfect

Easy To Use On iOS and Android

Whether you're a first-timer or an ultrasound expert. Turn on the power button and launch the app. Choose an exam-type from a list of AI-powered presets. Start scanning. Just like using a camera, make easy adjustments to add more clarity if needed. Live training is provided.



BENEFITS

- Portability: Eliminates the need for cables.
- Productivity and workflow: Faster more accurate exams.
- Image Quality: Crystal-clear images for real-time diagnosis.
- Flexibility: Up to three systems in one unit (linear, curvilinear and phased-array).
- Price Point: Affordable, quickly pays for itself.

VETERINARY CLINICAL APPLICATIONS

- Diagnostic visualization, operative intervention, needle guidance.
- Urgent and emergency care: high-precision assessment in any setting requiring rapid and accurate intervention.
- Triage and screening: direct visualization of the target organs and systems.
- Better communication with patients: demonstrating ultrasound during regular visits leads to its anticipated future use and billings.

G-U tract scans

Orthopedics

Breeding

Endocrine Assessment

Anesthesia & Pain Medicine

General Surgery

ER, ICU

Primary Care

Dialysis

Cystocentesis

A-fast, T-fast

Nephrology

Pulmonary Scans

Vascular Surgery

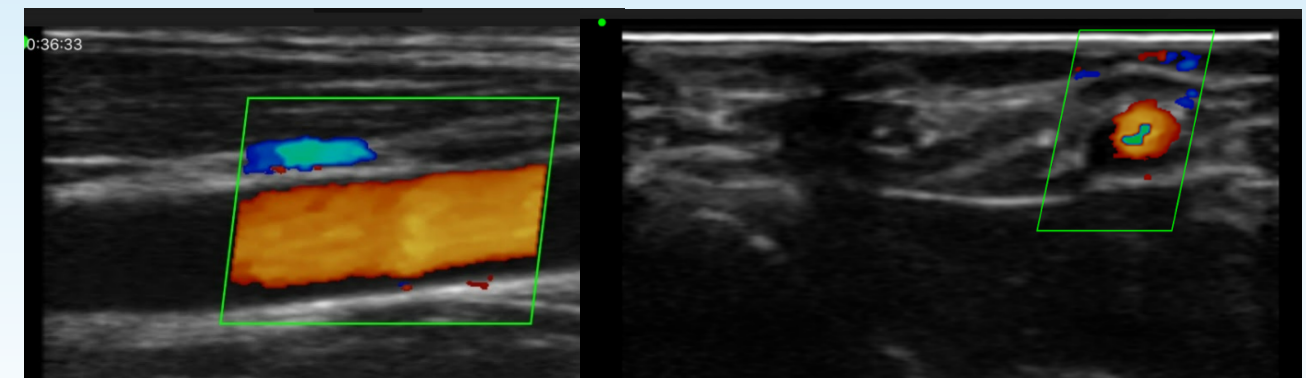
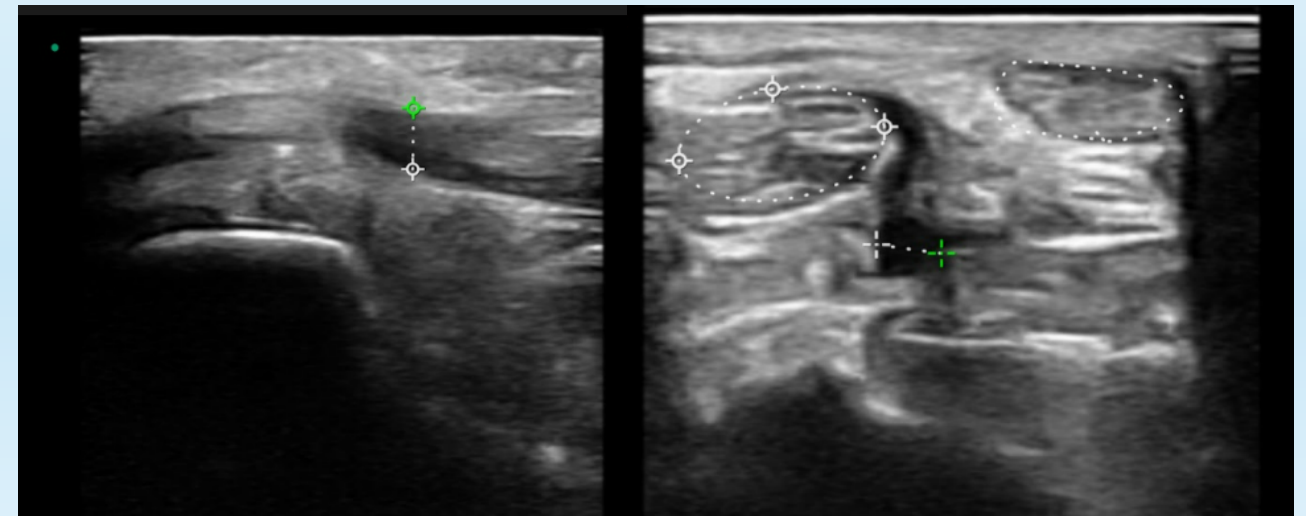
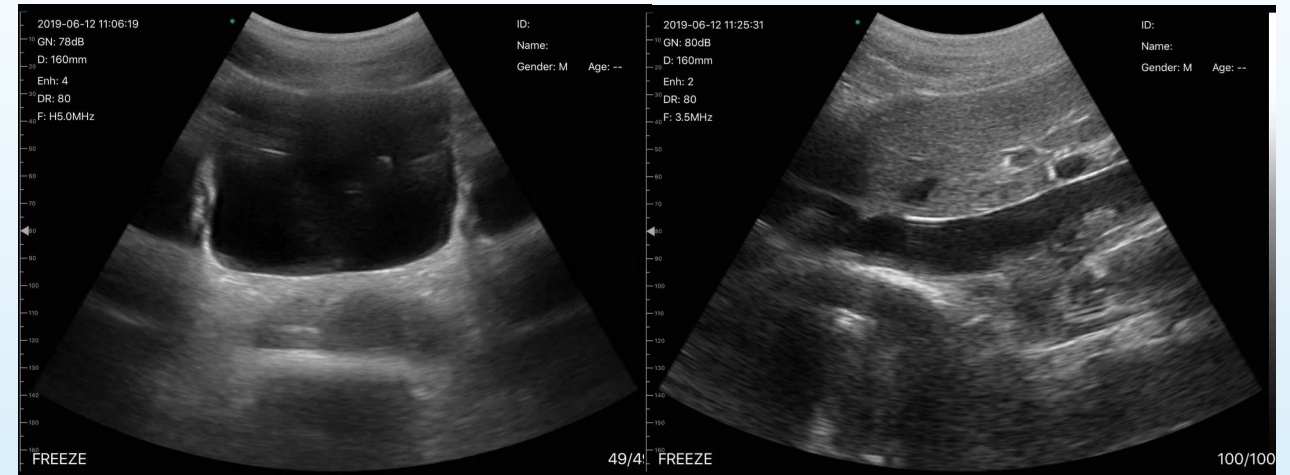
Vascular Access

Radiology

Research and Teaching

and more

CRYSTAL CLEAR IMAGING



EXAMPLES OF APPLICATIONS

- Anesthesia: Vascular access, deep and superficial plexus and other nerve blocks, lumbar and epidural puncture, airway assessment and cardiac evaluation
- Pain Management: Veni-puncture, plexus and peripheral nerve block, axial radiofrequency ablation, intervertebral disc radiofrequency ablation, intra-articular injections, peripheral soft tissue release therapy
- ICU diagnoses and procedures: Internal bleeding, pneumothorax, chest and stomach tube placement, acute abdomen examination, pericardial effusion, foreign body localization.
- Orthopedic trauma: Fracture diagnosis, joint injury and lesions, other MSK assessments.
- Breeding: Uterus and adnexa, bleeding or hemorrhage, ovarian follicle monitoring, endometrial thickness measurement. fetal development, fetal heart rate, umbilical cord, amniotic fluid, postpartum pelvic examination, urinary obstruction, bladder examination, biopsy, catheterization, sterilization procedures, transvaginal examination.
- Gastroenterology: Esophageal assessment, eg foreign body, gastric tube placement, stomach examination, GI bleeding, bowel assessment.
- Hepatobiliary surgery / general surgery: Liver scan, renal scan, cyst/ abscess localization and drainage, cavitory fluid drainage (chest, abdomen, pelvis), intra-abdominal bleeding, biopsies and other interventional procedures, bile duct puncture, pancreas and duct assessment, adrenal exam, splenic exam
- Vascular surgery: Venous and arterial assessment & treatment, artificial vascular replacement, A-V fistula creation and evaluation, thrombectomy, hematoma evacuation, stroke screening, eg carotid atherosclerosis and other vascular measurements.
- Newborn assessment: Hip screening, venous or arterial access, transcranial examination, pulmonary and cardiac examinations, abdominal examination, etc.
- Pulmonary: Pleural effusion, puncture guidance, alveolar stromal syndrome, pulmonary consolidation / atelectasis, pulmonary edema, pneumothorax , hemothorax
- Endocrinology: Evaluation and procedures for thyroid, parathyroids, pancreas, adrenals, ovaries, testicles
- Head/Neck surgery: Transcranial doppler, temporal artery, posterior fossa aneurysm or hemorrhage, TE fistula, airway assessment, esophageal diverticulum
- Ophthalmology: Vitreous foreign body, globe, retinal and arterial examination
- Urologic: Renal scan, ureter assessment, stone localization and sizing, bladder scan, testicular scan, urethral assessment, penile examination, urinary catheter placement and evaluation, percutaneous nephrolithotomy, renal biopsy.
- Emergency/ambulance: organ damage, internal bleeding, pneumothorax, pericardial effusion, cardiovascular abnormalities, thrombosis, fracture and other inspections.
- PACU : Postoperative wound assessment, peripheral and plexus nerve blocks, vascular access, airway evaluation, cardiac function, pulmonary examination

MULTIPLE CONFIGURATIONS & SPECIALTY UNITS



3-in-1
Curvilinear/Linear/
Phased Array



Dual-Headed
Micronvex/Linear



Phased Array/Microlinear



Ophthalmology



Endocavitary/curvilinear



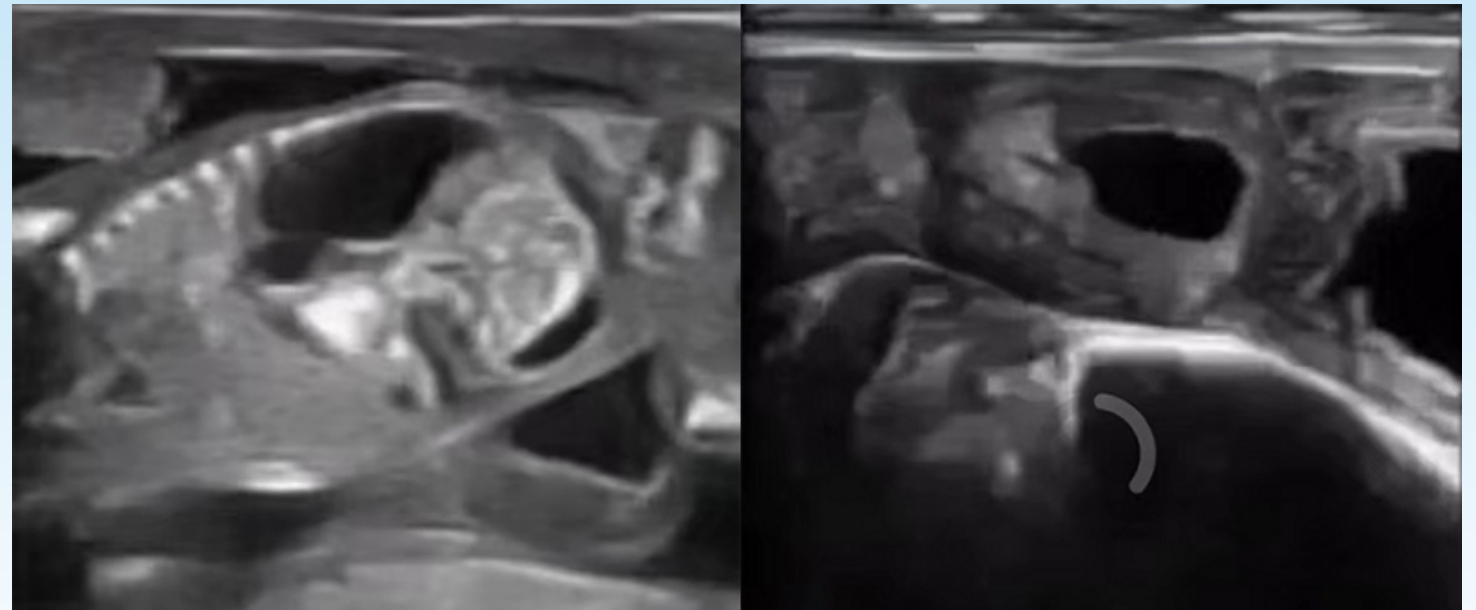
Endocavitary (end-fire)

- Single, double, or tripled headed probe: with any single, double or combination of three transducers, just one probe can meet the needs of multiple clinical tests. More convenient and lower overall cost.
- Curvilinear probe is suitable for wide and deep scanning, such as chest, abdomen, or pelvis. Transducer footprint: 60 mm, frequencies: 3.2-5.0 Mhz, depth: 90-305 mm, frame rate: 20 fps
- Microconvex has a smaller head, suitable for smaller patients, such as cats or small dogs
- Ophthalmology probe is high frequency and convex. Suitable for eye and abdominal scans of small animals such as cats and small dogs
- Phased array for cardiac and abdominal scans. Frequencies: 2.2-3.6 Mhz, scanning depth: 90-190 mm, frame rate: 24 fps
- Linear probe for superficial imaging. High frequency, detection range is small and shallow but with high definition. Suitable for small parts and superficial examinations. Transducer footprint: 40 mm Depth: 20-80 mm Frame rate: 20 fps
- Endocavitary: Long convex, high frequencies: 6-8 Mhz. Scan Angle/Length: 180°/149 mm, scanning depth: 30-115 mm, Frame rate: 20 fps
- Puncture and Needle guide: Quickly locate the depth and diameter of plane for punctures.
- Modes: B, M, Color-doppler, Pulse-wave doppler
- Image Optimization: B-Gain, Time Gain Compensation, Dynamic Range, Focal Zones, Depth, Frequency, Speckle Reduction, Color Gain, Steer Angle, Pulse Repetition Frequency, Deflection Angle, Baseline
- Measurements: Length, Area,/Circumference, Angle, Trace, Heart Rate, Blood Flow Velocity, Resistive Index (S/D ratio), Obstetric: Gestational Age

PREGNANCY SCANNING FOR LARGE SIZE ANIMALS

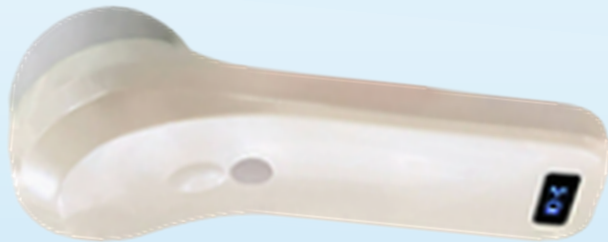


- Pregnancy exams for large animals
- Transmits the ultrasound signal wirelessly from the probe to your viewing device.
- Platforms: iOS
- Linear transducer footprint: 60 mm, frequency: 6.5-8 Mhz, depth: linear :40-100 mm, curvilinear wand: 90-300 mm
- Elements: 128 elements and 32 channels
- Display Modes: B, M, Color-Doppler, Pulse-Wave Doppler
- Elements: 128, Channels: 32
- Battery: 6000mAh, continuously scanning for 6 hours

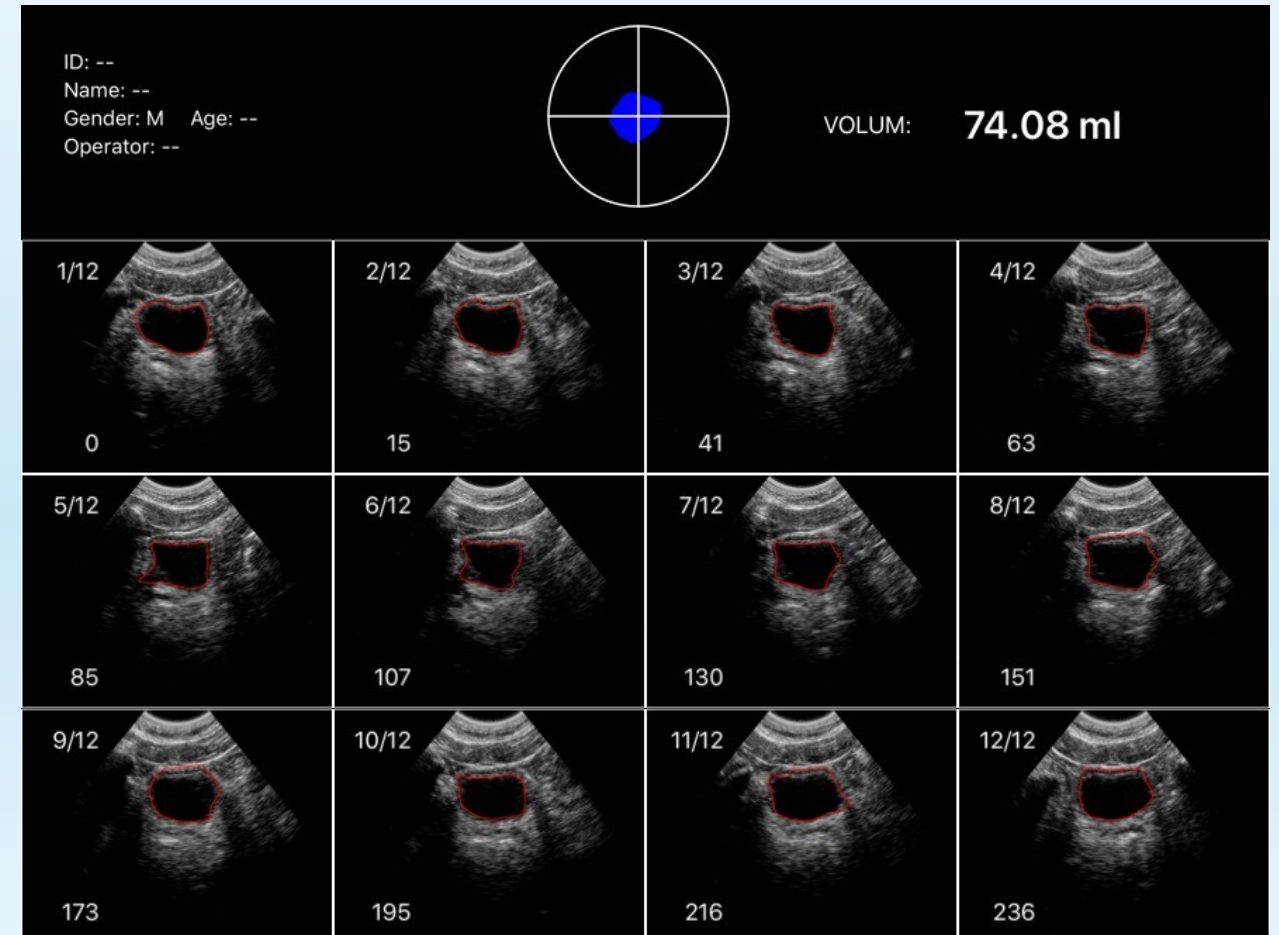


4-D BLADDER VOLUME MEASUREMENT

At the push of a button, real-time, three dimensional scan with AI-assisted bladder volume measurement



- 4-D bladder array scan for sharp clear images,
- High accuracy (>95%), High speed (2s) without the distortion of mechanical scanning.
- Advanced algorithm for more powerful bladder wall recognition technology
- Contour technology for improved accuracy.
- Smart technology, measurement results are not subject to the bladder shape and size.



POINT-OF-CARE ULTRASOUND

Window Into The Human Body

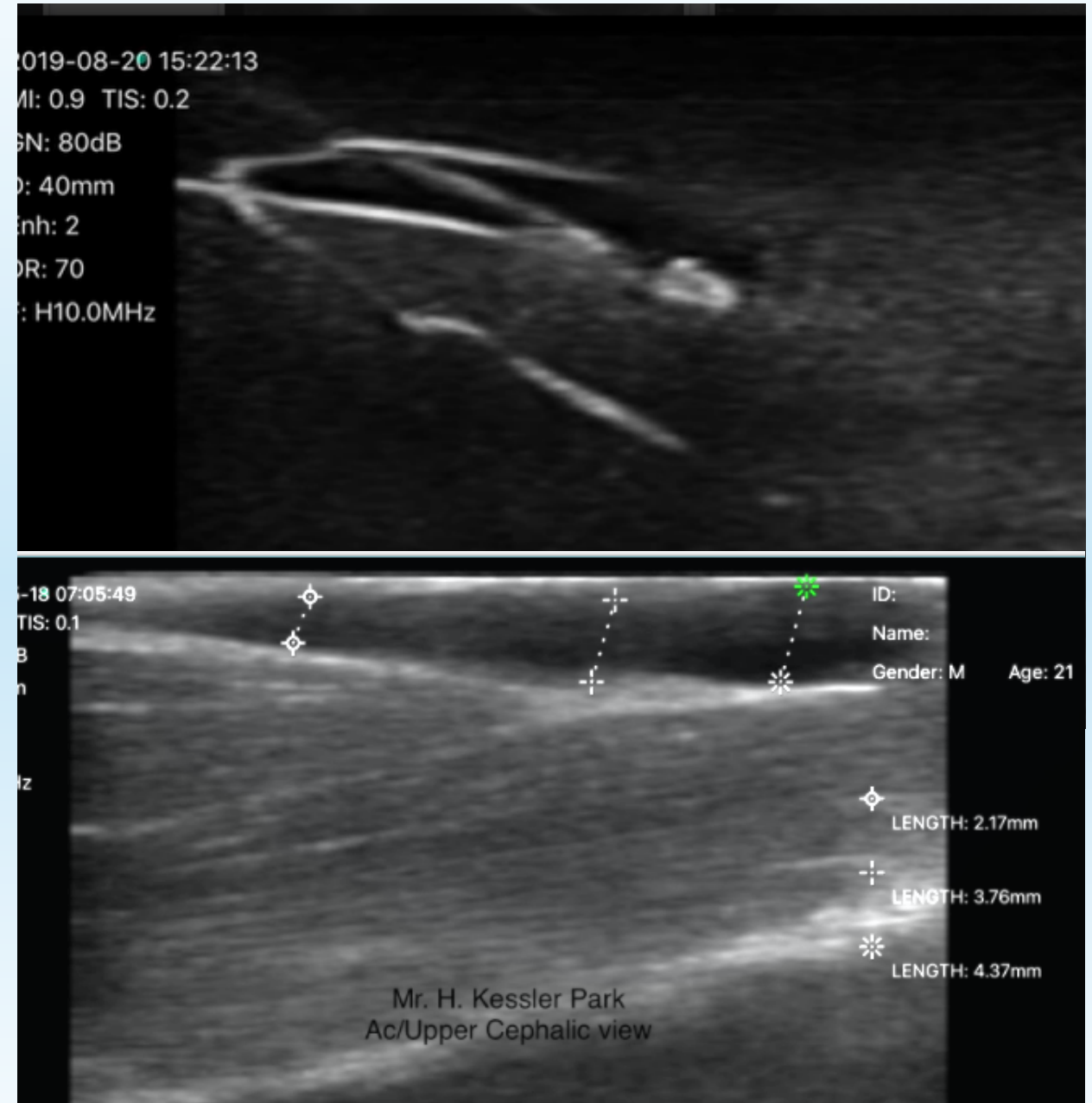
Two-thirds of the world's population has no access to medical imaging. But now, thanks to quantum leaps in technology, smartphones, laptops, and tablets provide mainframe computing. And enable an entire ultrasound system to work in a wireless, handheld device.

Ultrasound is the most affordable of all medical imaging systems. Rapidly gaining popularity as a safe and efficient diagnostic tool, it's a fast, cost-effective way to evaluate a vast array of conditions. It also complements and improves the accuracy of physical examinations.

Point-of-care ultrasound continues to expand dramatically and includes most primary care scenarios. Musculoskeletal injuries, vascular pathologies, abdominal assessments, cardiac and pulmonary function, pelvic organ exams, and more.

Imaging performed at the bedside empowers the provider to make an accurate assessment that efficiently guides treatment. Safe, accurate, and can be performed by non-radiology specialists, including all veterinarians and some trained veterinary technicians.

NEEDLE PLACEMENT



TECHNICAL SPECIFICATIONS

The wireless probe is a small ultrasound scanner that uses a mobile computing device as its console and screen. Imaging transmission is handled by a built-in, internal 5G wifi router to an app on iOS or Android devices. No external network is needed.

Scanning mode: Electronic array

Display Modes: B, M, Color-Doppler, Pulse-wave Doppler

Elements: 128-256 elements, 32-64 channels

Dimensions: 296mm x 60mm x 20mm

Weight: < 300g

Frequency: Curvilinear and microconvex: 3.5/5.0 MHz,
Endocavitary: 6.5/8.0 MHz, Linear: 7.5/10 or 10/12 MHz, 4-D
bladder: 3.5 MHz

Depth: Convex: 90 mm~305 mm, Endocavitary: 50 mm-100 mm,
Linear: 20 mm-80 mm

4-D bladder volume range: 10 ml-2000 ml, accuracy > 95%

Radius of curvature and angle of scanning: Convex R 60 / Linear L
40, Endocavitary: R 10/149°

Image adjustments: gain, depth, focus, dynamic range, frequency,
speckle reduction, time-gain compensation controls, factory
presets. Plus individual controls for each display mode.

Needle-guide functions: Adjustable, in-plane guide and
out-of-plane guide. Each displays the position and angle/radius of
approach.

Measurements: Length, Angle, Area/Circumference, Trace, Flow Velocity,
Heart Rate, S/D Velocity Ratio with Resistive Index calculation, Fetal
Assessments with EGA and EFW.

Image frame rate: 20 fps

Battery: 3.5 hrs continuous up to 12 on standby

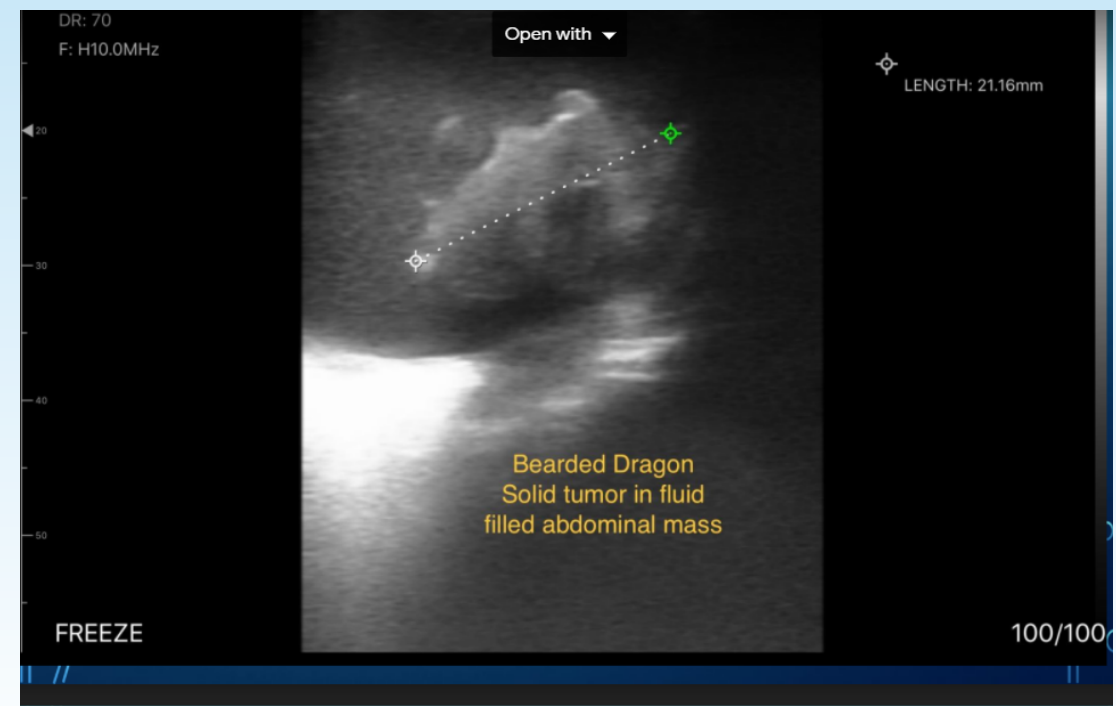
Wifi: 802.11n/2.4G/5G/450Mbps

Operating system: iOS or Android

Compatible Devices: iPad and iPhone (newer models), Android 3.4.9 and
above (check with Edge Life Technologies to confirm specific mfg/models)

Charging mode: Dual and triple-headed models with wireless charger
included, or single head with micro-USB cable

Standard Warranty: 18 months



COMPETITIVE ADVANTAGES

Innovative technology sets a new standard for quality and pricing.

- Handheld, lightweight, cordless. No cables to get in the way so easily covered for sterile environments.
- Built-in 5G wifi hotspot allows wireless transmission, no network required. Cybersafe. Compatible with iOS, and Android. Allows unprecedented mobility and portability.
- Durable, water-tight construction, ideal for busy or unpredictable locations. Contamination-resistant and easy to clean.
- Image quality is simply amazing. More work in less time decreases your stress and workload.
- Doesn't overheat. Stays operational for a full three hours of continuous scan time per battery charge.
- No monthly subscriptions or contracts required.
- The most cost-effective ultrasound solution, leading the way to overcome overspending while improving patient care.

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