![Butterfly™]

# Butterfly iQ+ Vet Preset Definitions

---

**Abdomen** (Curved Field of View or FOV)
>     *Optimized for small animals less than 10kg.*

This preset uses a curvilinear format to evaluate abdominal organs, such as the liver and kidney. It can also be used for abdominal procedures, such as abdominocentesis. It offers M-Mode and Color Doppler as well as linear and circumferential measurements.

High resolution: 0-5cm
Medium resolution/penetration: 6-10cm
High penetration: 11-15cm

---

**Abdomen Deep** (Curved FOV)
>     *Optimized for animals greater than 10kg.*

Similar to our Abdomen preset, this preset was designed to provide better imaging in larger animals. It changes frequencies with depth to ensure consistent reliable visualization of up to 30cm.

High resolution: 0-15cm
Medium resolution/penetration: 16-26cm
High penetration: 27-30cm

---

**Bladder** (Curved FOV)
>     *Optimized for general evaluation of bladder. If wanting to measure bladder wall in*
>     *small animals, use "Small Organ" preset with higher frequency.*

This preset has been optimized for the contrast and detail required for bladder assessment. The Field of View (FOV) is expanded to 120° to enable visualization of the bladder in the near field. This includes the application of harmonic imaging, which uses resonant characteristics of tissue to produce imaging of higher resolution of the bladder wall, and surrounding pelvis. It provides Color Doppler carefully optimized for the identification of ureteral jets. It can also be used for collection procedures, such as cystocentesis.

High resolution: 0-6cm
Medium resolution/penetration: 7-11cm
High penetration: 12-20cm

---

**Cardiac** (Sector FOV)
*Optimized for small animals less than 10kg.*

This preset employs a high frame rate and applies a sector scan at higher frequencies to allow reliable real-time echocardiographic interrogation. M-Mode and Color Doppler are both supported.

---

**Cardiac Harmonics** (Sector FOV)
*Optimized for small animals less than 10kg.*

This preset employs a high frame rate and applies a sector scan at higher frequencies to allow reliable real-time echocardiographic interrogation. M-Mode and Color Doppler are both supported.

---

**Cardiac Deep** (Sector FOV)
*Optimized for animals greater than 10kg.*

This preset has been designed with parameters best for imaging of the fast-moving dynamics of the heart in larger animals. It employs a high frame rate and applies a sector scan which allows reliable real-time echocardiographic interrogation. M-Mode and Color Doppler are both supported. Multiple parameters have been changed to adjust for this use case, such as using blended frequencies, to provide diagnostic quality echocardiography in patients needing more penetration.

---

**Cardiac Deep Harmonics** (Sector FOV)
*Optimized for animals greater than 10kg.*

Similar to Cardiac Deep, this preset was designed to provide more contrast with cardiac imaging for larger animals needing more penetration.

High resolution: 0-16cm
High penetration: 17-30cm

---

**Lung** (Linear FOV)
> *Shallow depth optimized for assessment of the plural interface and evaluation of pulmonary motion (glide sign). Deeper depth optimized for evaluation of A-lines and B-lines.*

This preset is optimized to support imaging of lung pathology for animals in respiratory distress. In the very near field, a high-frequency linear format is optimized for the visualization of lung sliding. As the depth changes, so too does the image format and frequency range in order to support deeper interrogation for A or B Lines.

High resolution: 0-6cm
Medium resolution/penetration: 7-15cm
High penetration: 16-30cm

---

**Musculoskeletal** (Linear FOV)
> *Optimized for scanning <u>without</u> a standoff pad.*

This linear preset applies imaging parameters to display the fine balance of temporal, detail and contrast resolution required for high-frequency musculoskeletal exams and ultrasound-guided injections. This includes high-resolution imaging of muscles, tendons, ligaments, and bursae.

High resolution: 0-8cm
High penetration: 9-18cm

---

**Musculoskeletal Equine** (Linear FOV)
> *Optimized for scanning <u>with</u> a standoff pad for equine fore and hind limb evaluation.*

Similar to Musculoskeletal, this preset has been designed to increase the contrast resolution for a crisp visualization of the structures of interest via post-processing capabilities. Moreover, instead of a single focus and transmit frequency for the whole field of view, this preset divides the field of view into two parts at ≥ 5cm. A closer focus and higher frequency are applied in the near field.

---

**Small Organ** (Linear FOV)
> *Optimized for small animals less than 10kg.*

This preset has been optimized to support the demonstration of soft tissue structures in the small parts anatomical category, such as bowel or pancreas. Focus has been made specifically to detail resolution and vascular sensitivity in a linear format.

---

**Vascular** (Linear FOV)
*Optimized for small animals less than 10kg.*

This preset optimizes the image for top visualization of vascular structures, with a specific focus on peripheral arteries and veins in a linear format. It maximizes contrast resolution to provide a crisp demonstration of vascular borders and needle guidance.

---

*For licensed veterinarians only.*
*All comparative claims are made relative to first-generation iQ Vet product.*