

## Ultrasound

"...Early, accurate diagnosis of orthopedic patients is sometimes even more important than treatment. Faster, more precise diagnoses lead to significant morbidity and mortality reduction and lower costs for the health care systems as well as the patients."<sup>1</sup>

### Exceptional Detail for Orthopedic Imaging

"The presentation of **soft tissue and bone surface** and their dynamic interaction with a **resolution of 24 MHz** is staggering and proves the huge potential of sonography."<sup>2</sup>



— Dr. Sebastian Kluge  
FMH Professional Assoc. Specialist  
Doctor for Surgery and Hand  
Surgery, Ultrasound Diagnostics,  
Musculoskeletal System  
SGUM (Swiss Society of Ultrasound  
in Medicine), Zurich, Switzerland

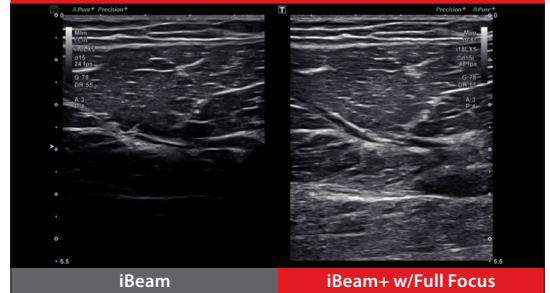
# High resolution and detail for diagnostic confidence\*

## Ultra High-Frequency Transducers with iDMS



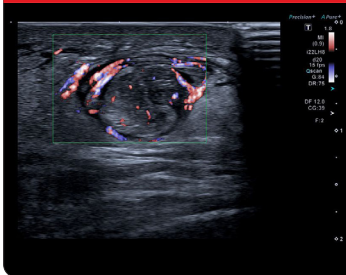
- Ultra high-frequency transducers with iDMS (Intelligent Dynamic Micro-Slice) technology (up to 33 MHz)
- Range of transducers from 18 MHz to 33 MHz
- Excellent resolution and penetration
- Ideal for MSK and nerve imaging

## iBeam+ with Full Focus



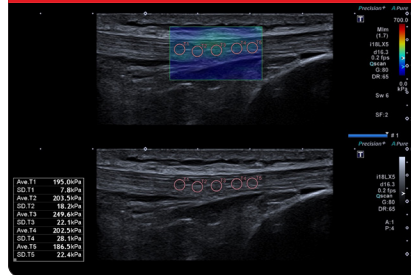
- Enables clear, uniform images from near and to far field without the need for focus adjustments
- With fewer steps, this can be useful to help shorten exam times

## Superb Micro-Vascular Imaging (SMI)<sup>3</sup>



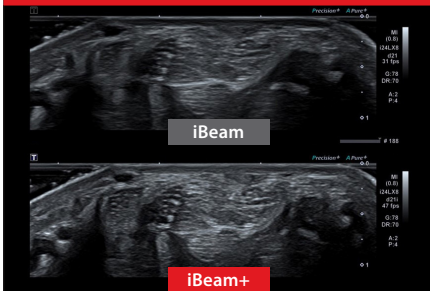
- Provides visualization of low velocity microvascular flow often seen in inflammation
- Supports diagnostic confidence when evaluating lesions

## Shear Wave Elastography



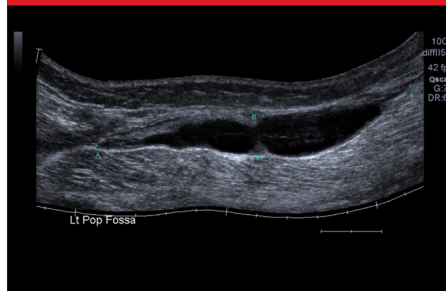
- Shear Wave Elastography can provide a quantitative assessment of tissue elasticity in MSK structures such as muscles, tendons and ligaments

## Enhanced B-mode Imaging with iBeam+



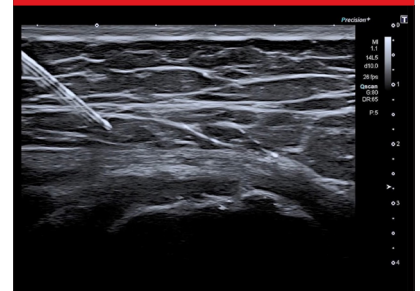
- Excellent penetration, improved spatial resolution, approximately 2x higher frame rate in B-mode with iBeam+ and ApliPure+ when combined with a high-frequency transducer

## Panoramic Imaging



- Panoramic imaging can obtain a wider field of view
- Allows for freehand direction of scan for extra flexibility

## BEAM (Biopsy Enhancement Auto Mode)



- One button needle enhancement improves visualization of needle placement during interventional procedures
- No sacrifice in image quality

\* The depicted features and/or functionality may be system dependent, please consult your local Canon Medical Systems representative

<sup>1</sup> Ashkani, MD, S. (2021, January 4). Artificial intelligence improves orthopedic diagnosis. Mass General Advances in Motion. <https://advances.massgeneral.org/ortho/article.aspx?id=1330>

<sup>2</sup> The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors.

<sup>3</sup> Standard feature on Aplio i-series PRISM Edition and optional on Aplio a-series and Xario 200G

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<https://us.medical.canon> | 2441 Michelle Drive, Tustin CA 92780 | 800.421.1968

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