
Focal™
HEALTHCARE

# INTELLIGENTLY SIMPLE

PROSTATE CANCER TECHNOLOGY

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# Fusion Biopsy Workflow

The standards for biopsy blindly sample the prostate without knowing where the cancer is, if any. We're here to set a new standard of care with MRI-targeted fusion biopsies. See how an MRI provides an action plan that gives patients the best chance of being treated sooner and more effectively.

01

**Patient MRI**

**MRI is used as a triage test for biopsy**

02


**Fusion MR software is used to review MRIs and contour lesions**

03


**Fusion Bx is used to perform MRI-targeted fusion biopsies**

## Our Mission

"We are committed to improving the lives of prostate cancer patients and their families by producing world-class medical equipment"

– Chicuong La, President and CEO

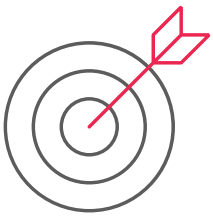
Dedicated to intelligent and targeted prostate cancer care, Focal Healthcare has developed an image-guidance platform that integrates with and augments commercial diagnostic and therapeutic devices. Thoughtfully engineered, our patented arm is coupled with easy to use software that provides accurate diagnostics to improve patient outcomes and minimize associated healthcare costs.

"Introducing MRI-targeted prostate biopsies into our practice has allowed us to better serve our community. The Fusion Bx is simple to learn and easy to use, giving all our urologists and their patients access to the technology. We are now finding more cancers with the Fusion Bx."

- Dr. Sellinger, MD, FACS, Advanced Urology Institute

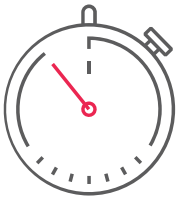
# A Few Guiding Principles

Good design starts with form and function. Great design embodies the principles upon which it is built. Informed by our end users, our products are designed around three key pillars:



## Accuracy

MRI-targeted biopsies with Fusion Bx addresses potential sources of inaccuracy during biopsy procedures by targeting 3 key areas: prostate deformation, patient motion and registration.



## Efficiency

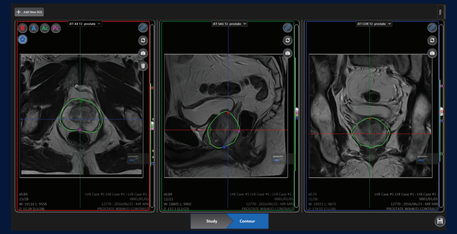
Driven by physicians, the Fusion Bx's 4-step guided workflow and patient motion compensation reduces procedural times and physician training time.

## Accessibility

A semi-robotic arm reduces the need for additional staff and no disposables makes Fusion Bx a cost effective solution for hospitals and clinics of all sizes.

# Fusion MR™

## Prostate MRI Contouring



Fusion MR is software for interpreting MRIs of the prostate. This is the first step of a targeted biopsy procedure where suspicious regions of interest are identified using colour-coded contours. These marked-up MRIs are imported into the Fusion Bx and fused with live ultrasound. The intelligently simple interface enhances the communication between radiology and urology.

### High Speed Contouring

- Supports fusion biopsy procedures
- Semi-automated segmentation

### Seamless Integration

- PACS compatible
- No upfront cost

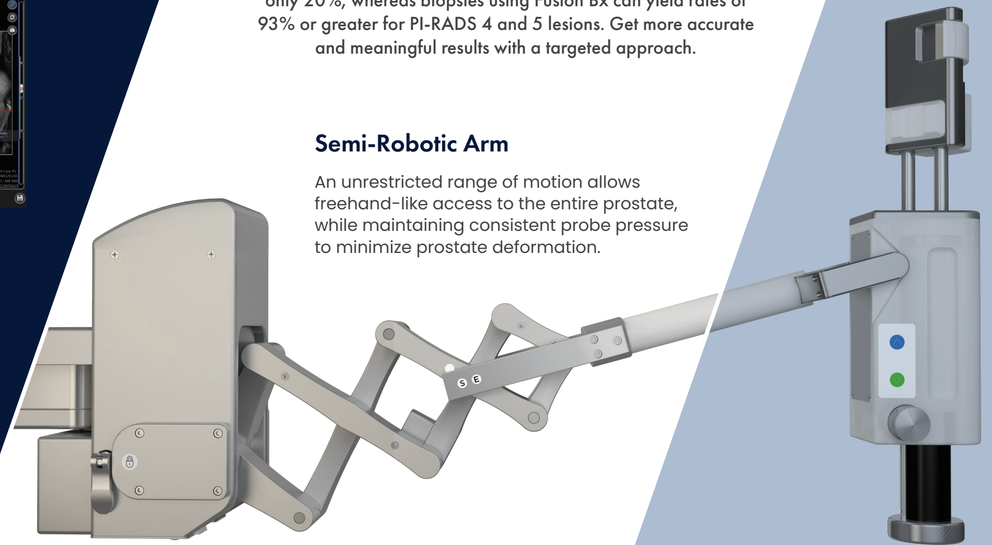
# Fusion Bx™

## Prostate Fusion Biopsy Made Simple

Systematic biopsies have an average cancer detection rate of only 20%, whereas biopsies using Fusion Bx can yield rates of 93% or greater for PI-RADS 4 and 5 lesions. Get more accurate and meaningful results with a targeted approach.

### Semi-Robotic Arm

An unrestricted range of motion allows freehand-like access to the entire prostate, while maintaining consistent probe pressure to minimize prostate deformation.



### Hands-Free Operation

Patented counterbalance technology simplifies procedures by supporting the ultrasound probe in any position, reducing the need for additional assistance.

### Universal Compatibility

Most ultrasound probes, both transrectal and transperineal, can be connected with ease using the corresponding holster.

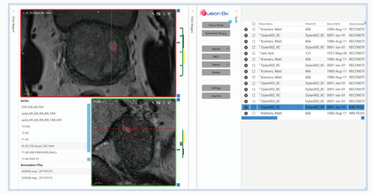
### Motion Compensation

Motion compensation feature automatically adjusts for patient movement to maintain image registration, allowing procedures to continue uninterrupted.

## Intuitive Interface

Fusion Bx is driven by a simple 4-step guided workflow that minimizes both training and procedural time. Moreover, the stepper buttons allow urologists to advance through most of the procedure without having to take their hand off the probe.

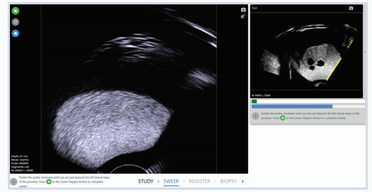
01



### STUDY

Any patient can be selected to view images, past biopsies and reports with a few simple clicks. MRI scans can be imported from USB, DVD, network or PACS.

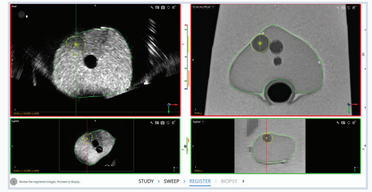
02



### SWEEP

Images of the prostate can be acquired with a simple rotation of the ultrasound probe. A 3D model is generated from 2D ultrasound images. Both end-fire and side-fire workflows are supported.

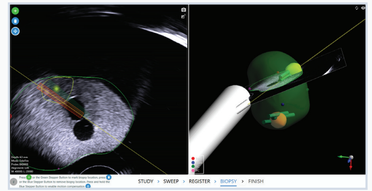
03



### REGISTER

Four identifiable landmarks are used to align images, then semi-automatic segmentation and elastic registration are used to account for differences in shape and size between the MRI and ultrasound.

04



### BIOPSY

Suspicious lesions from the MRI are fused with the live ultrasound and shown as targets. Use the 3D model to navigate to targets for quick and efficient biopsies.