



FLASH[™] NAVIGATION SYSTEM WITH 7D TECHNOLOGY

SPINAL NAVIGATION APPLICATION
SALES BROCHURE



RETHINK. REIMAGINE. REDEFINE.

The next generation of image-guided navigation.

The FLASH™ Navigation System with proprietary 7D Technology has redefined image-guided surgery, delivering a navigation platform with unprecedented benefits. Perform fast, efficient, cost effective, and no intraoperative radiation spine surgery and eliminate the long-standing clinical frustrations and challenges of traditional navigation systems.

FLASH™ NAVIGATION SYSTEM

WITH 7D TECHNOLOGY

THE VISION IS CLEAR. Machine-vision Technology.

Developed by 7D Surgical, the FLASH™ Navigation System utilizes Machine-vision Technology to deliver a registration method in less than 30 seconds. Similar to technology found in self-driving cars, the FLASH Navigation System uses special cameras to quickly analyze surface anatomy using only visible light. This creates a full-color, 3D image reconstruction consisting of nearly 1,000,000 data points used for surgical navigation. This proprietary Machine-vision Technology allows for the fastest image reconstruction for surgical navigation, all through the flash of a light.



Integrated Surgical Lighthead

Machine-vision Technology is perfectly embedded into an optimized surgical light as part of the platform, eliminating unnecessary equipment and line-of-sight challenges.

Tool Tracking System

Embedded camera in overhead light that recognizes tracked instruments in relation to surgical anatomy.

Machine-vision Cameras

Advanced cameras and software algorithms instantaneously recreate a 3D image for surgical navigation in just seconds.

FLASH Projection System

Visible light is projected onto the anatomy and a light pattern with nearly 1,000,000 data points is reflected from the anatomy's surface.



WORKFLOW EFFICIENCY

Near Instant 3D Registration

FLASH™ Registration in less than 30 seconds, providing a “Navigation-on-Demand” experience.

Optimized Workflow

No altering or disrupting intraoperative surgical workflows.

Surgeon-controlled

Complete control with foot pedal and sterile light handle; embedded technology directly overhead eliminates line-of-site challenges.

Reduced Navigation Time

Studies have shown that registration time with FLASH Navigation is reduced up to 95%.



HIGH ACCURACY

FLASH™ Fix

Enables quick re-registration in less than 20 seconds to confirm and maintain accuracy.

Real-time Navigation

Generates real-time correlation between surgical tool interaction and CT images.

Machine-vision

3D image guidance with nearly 1,000,000 data points to provide additional information for informed decision making.

Segmental Accuracy

Provides segmental accuracy at every level regardless of patient positioning or intraoperative movement.



RADIATION-FREE*

No Intraoperative CT

Eliminates the need for intraoperative radiation used for registration.

No Fluoroscopy

Only utilizes visible light for registration, thus eliminating the need for intraoperative fluoroscopy.

Reduces Radiation Exposure

Eliminates intraoperative radiation exposure to surgeon, staff, and patient typically required for navigation procedures.

Improves Safety

Requires no intraoperative radiation for registration, thus improving safety and potentially reducing harmful side effects of radiation exposure.



COST EFFECTIVE

Reduce Equipment & Support Staff

Eliminates the need for and reliance on intraoperative radiology equipment and associated personnel throughout the entire procedure.

Reduced Operative Time

Significantly reduces registration time from 30 minutes to less than 30 seconds, resulting in faster operative times.

Small, Portable Platform

Mobile platform with small footprint requires minimal space in operating room and provides ease of use and maneuverability in hospital.

Cross-specialty

Platform is designed for use in multiple surgical specialties.

*Preoperative radiation required

FLASH™ NAVIGATION SYSTEM

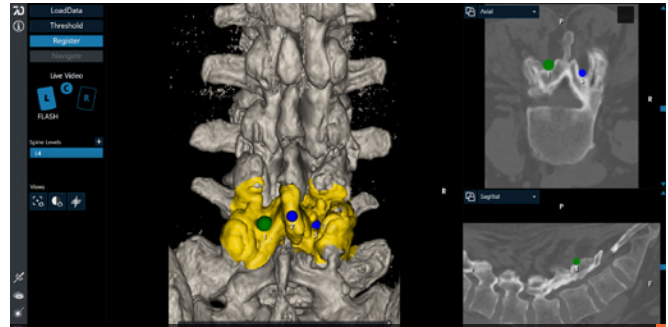
WITH 7D TECHNOLOGY

SEE THE SIMPLICITY—

FLASH™ Registration in less than 30 seconds.



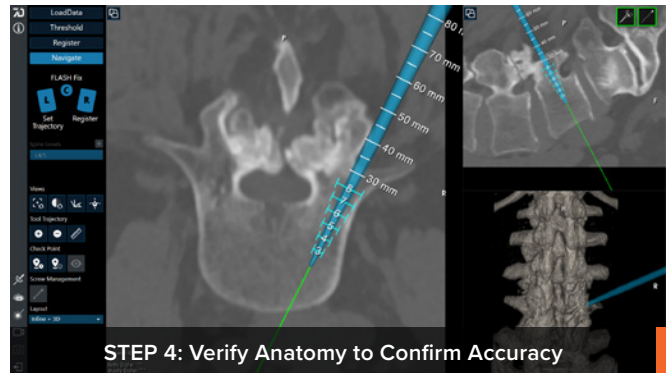
STEP 1: Attach Single-handed Reference Frame



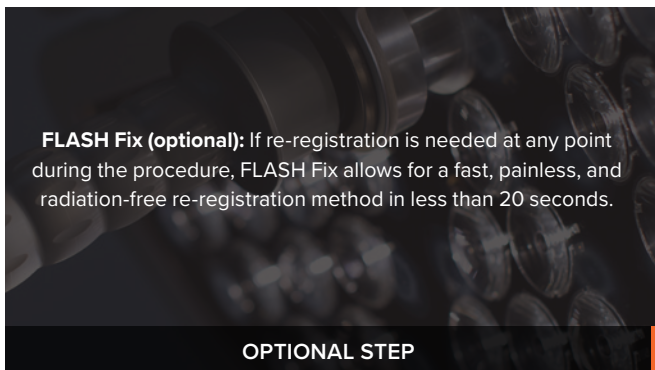
STEP 2: Identify Vertebral Body



STEP 3: Flash of Light



STEP 4: Verify Anatomy to Confirm Accuracy



FLASH Fix (optional): If re-registration is needed at any point during the procedure, FLASH Fix allows for a fast, painless, and radiation-free re-registration method in less than 20 seconds.

OPTIONAL STEP

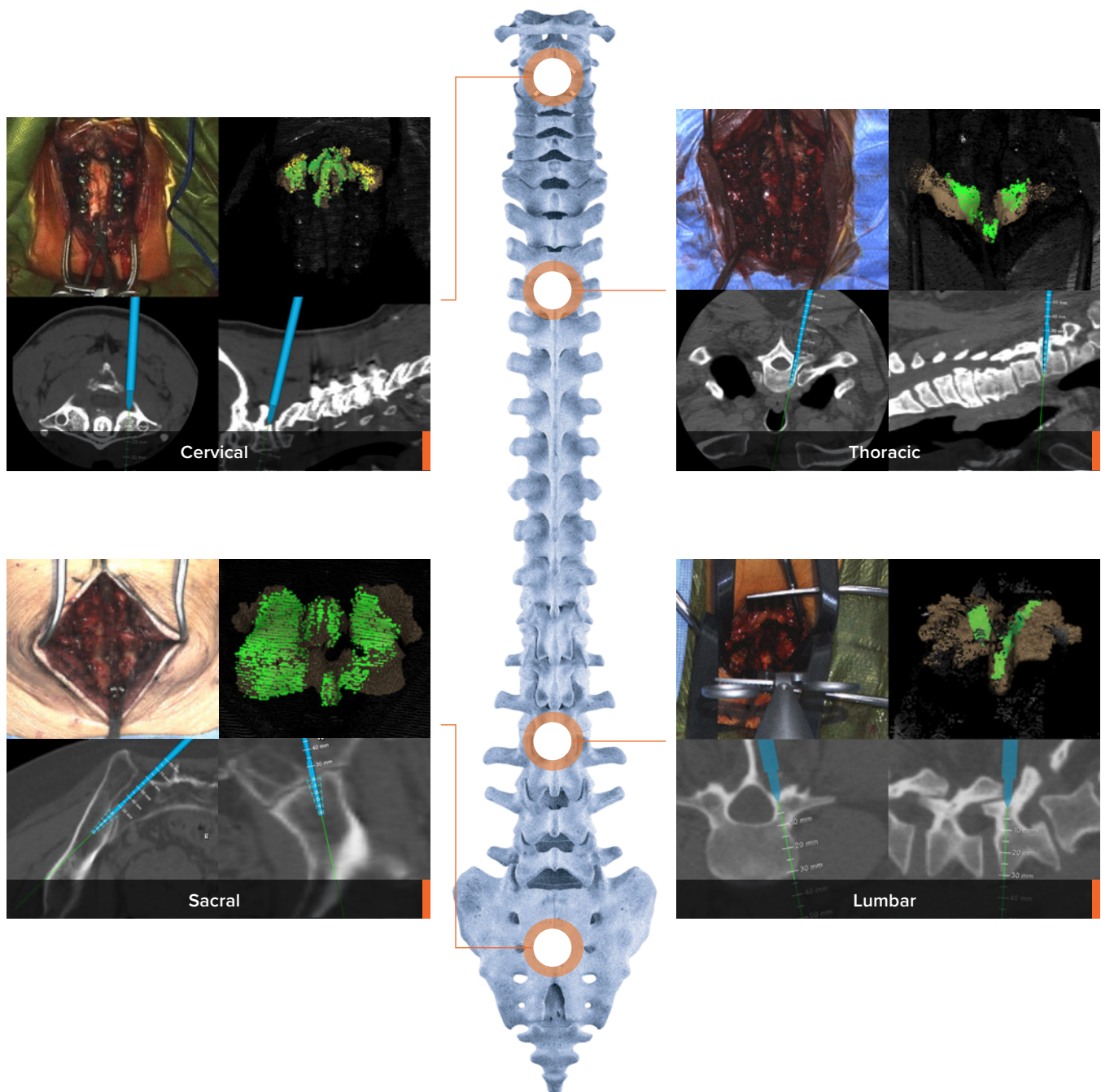
FLASH Navigation Animation

Scan the QR Code to see the simplicity of FLASH Navigation in action.



PROCEDURAL CONFIDENCE AT EVERY LEVEL

Seamlessly integrated with the SeaSpine® Posterior Fixation Portfolio, the FLASH™ Navigation System has the ability to segmentally register at each individual level, capturing nearly 1,000,000 data points and driving extreme accuracy.

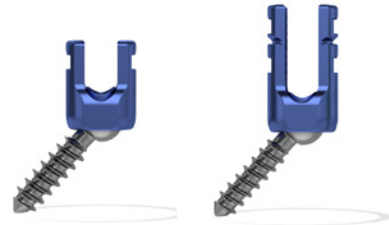


FLASH™ NAVIGATION SYSTEM

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NORTHSTAR® OCT Posterior Cervical Fixation System

The NorthStar® OCT System was designed to be the complete posterior cervical fusion solution. NorthStar OCT combines a comprehensive implant selection, with thoughtful instrumentation, and applied system versatility to provide surgeons with safe and effective tools to simplify the most complex procedures.



DAYTONA® & DAYTONA SMALL STATURE Deformity Systems

The Daytona® and Daytona Small Stature Deformity Systems, which utilizes implant-based reduction technology, is designed to address standard to complex deformity cases.



MARINER® & MARINER MIS Pedicle Screw Fixation Systems

The Mariner® Thoracolumbar Fixation Systems feature modular threaded technology with thoughtfully designed instrumentation, packaged in a streamlined offering.



FLASH™ NAVIGATION SYSTEM

WITH 7D TECHNOLOGY

SURGEON TESTIMONIAL



“ The FLASH™ Navigation System with 7D technology paired with the SeaSpine® implant portfolio is an incredibly powerful combination in my practice. The clinical versatility and strength of the Mariner Fixation System, when complimented with the 7D radiation-free navigation, allows me to treat a wide spectrum of complex spine pathologies without disrupting my existing workflow. I’m now able to easily address intraoperative challenges safely and without compromising the way I like to operate. ”

Pawel Jankowski, MD

Hoag Hospital, Department of Neurosurgery | Newport Beach, CA

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