G-Arm® Duo™

MULTISCAN G-ARM SYSTEM B6

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LEADING TECHNOLOGY
from a leading company

Whale Imaging, Inc. is a rapidly growing high-tech company engaged in the development, manufacturing, marketing, and service of surgical imaging systems for medical markets around the globe. Led by a highly experienced international management and engineering team, Whale's Global Marketing and R&D facilities are headquartered in the Greater Boston Area, USA.

Whale has been a recipient of the prestigious "Best New Spine Technology" award for its revolutionary G-Arm bi-plane surgical imaging system.

In addition to G-Arm® bi-plane surgical imaging technology, Whale Imaging also produces the new Sigma™ Series portable ultrasound systems. Whale's innovative IP, coupled with low-cost manufacturing capabilities, enable the company to create disruptive new technologies at competitive prices. Whale Imaging continually produces new innovations for its strong product offerings, with a focus on pioneering attractive user benefits for a range of medical applications.

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THE G-ARM ADVANTAGE
Confidence in outcomes

The G-Arm is designed to improve user confidence and patient outcomes in areas such as orthopedics, spinal surgery, neurosurgery, trauma, and pain management. Providing unprecedented capability and control, G-Arm aims to improve your surgical experience.

For clinicians and hospitals, Whale's product development focus is to create potential benefits based around process improvements, better procedures and greater confidence. Our key general aims are:

Reducing Dose
Fewer corrective exposures may mean cumulative radiation can be minimized for patient and staff.

Improving Procedure Time
Live twin plane views may speed placement and decrease time lost moving the arm and repositioning between AP and lateral views.

Increasing Accuracy
X-Beam technology aims to provide better precision. Better placement can make revision less likely.

Minimizing Risk of Infection
Eliminating the need to change the detector placement may help decrease disruption to the sterile field.

X-BEAM®
Live images in two planes

With G-Arm the challenge of shifting between AP and lateral views is eliminated and enhanced by the **X-Beam advanced digital platform** so the procedure can be performed more efficiently.

This unique system architecture allows both AP and lateral anatomy to be viewed as high frequency images for **both planes live and simultaneously.**

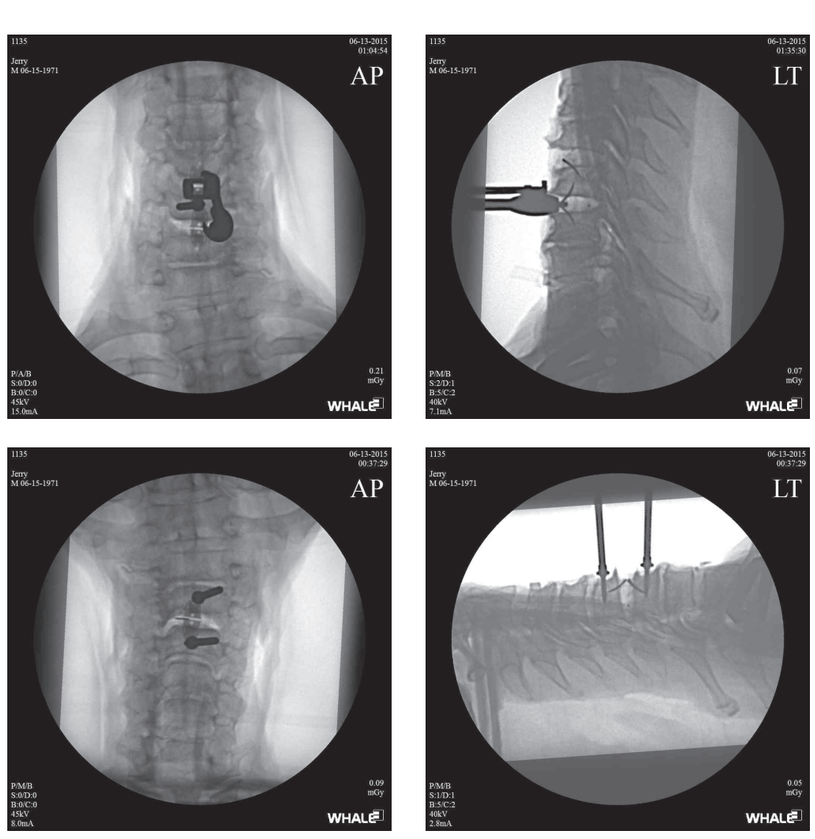
Right and left monitor views are real time, giving you unprecedented ability to carry out the procedure quickly and confidently.

Whale's proprietary X-Beam technology uses advanced algorithms and system architecture to achieve asynchronous **high frequency** pulsed imaging in each plane **without beam interference**.

IC-CLEAR®
Advanced algorithms for exceptional images

iC-Clear imaging suite consists of seven **powerful real time image processing functions** intended to maximize image performance.

Proprietary algorithms optimize contrast and reduce noise using less power, therefore potentially lowering dose for the safety of operators and patients. Our high-end platform allows anatomy to be visualized clearly. A lower cumulative dose requirement reduces the need for generators with excessive power ratings.

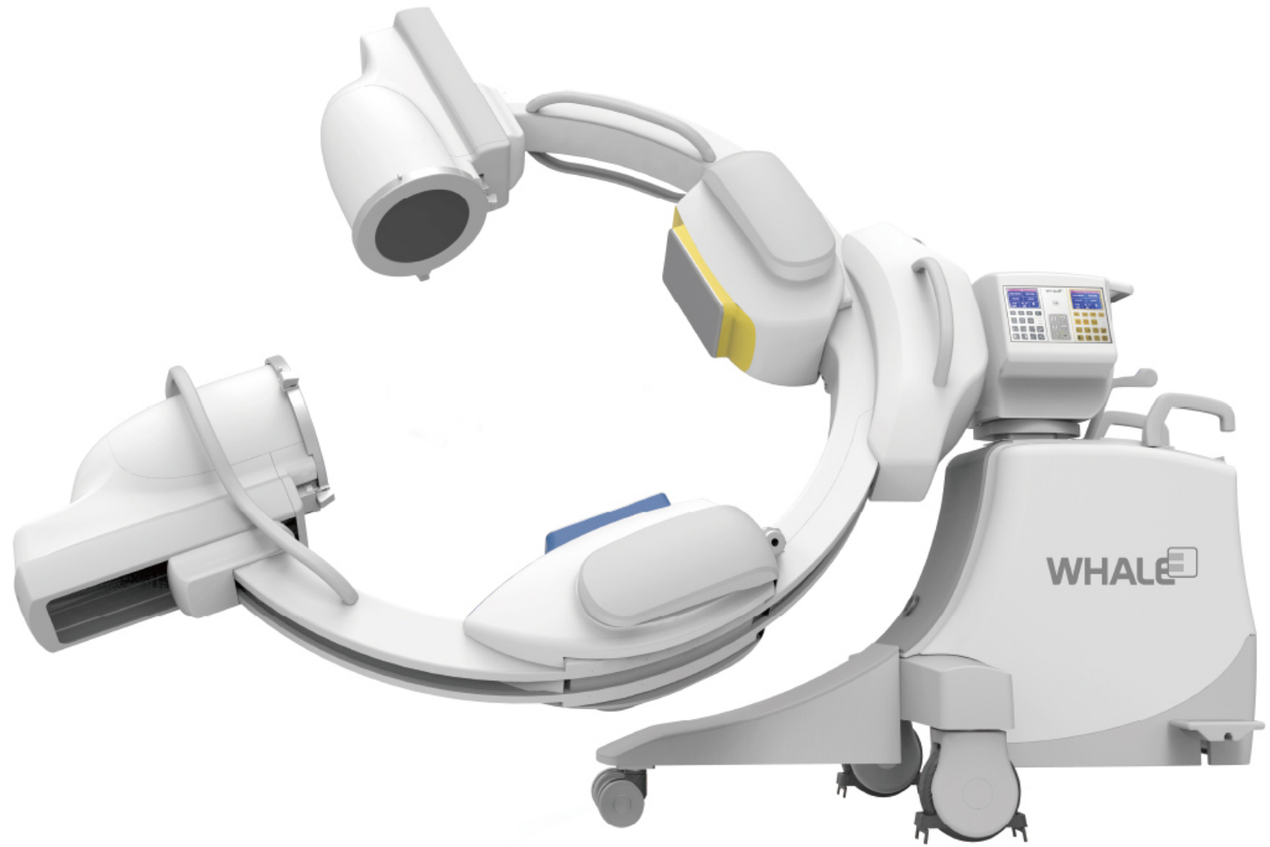


“C” WHY YOU SHOULD GO “G”

Compare G-Arm versus C-arm

Versus One C-arm:	C-arm	G-Arm
AP & lateral views simultaneously?	X	✓
Live bi-plane images?`	X	✓
Small footprint?	✓	✓
Axial tilt?	✓	✓
Orbital rotation?	✓	✓
Large free space?	VARIES	✓
Works with most table types including Jackson Table?	✓	✓

Versus Two C-arms:	C-arm	G-Arm
Small footprint?	X	✓
Large onboard storage?	X	✓
Large procedural operating space?	X	✓
Requires only one tech?	X	✓
Enough room for 2 surgeons?	X	✓
Requires fewer drapes?	X	✓
Can control via a single console?	X	✓



X-PANO™
Panoramic Imaging for G-Arm

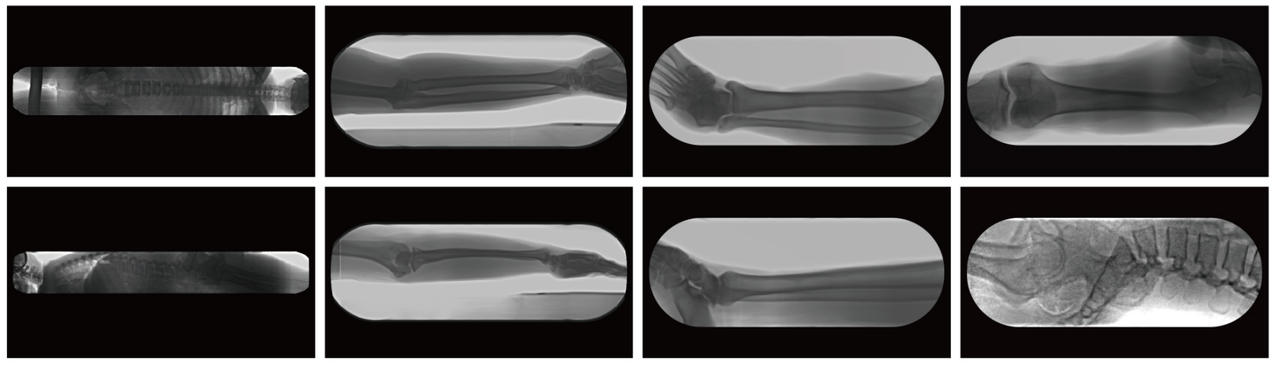
Currently, fluoroscopy is used in the operative setting to safely place spinal instrumentation. However, the limited field of view from these imaging systems does not allow a surgeon to assess the global spinal alignment. X-Pano used with G-Arm may offer a significant improvement on previous practices.

The Full Picture

X-Pano provides a unique, easy low dose method to obtain images quickly within the the G-Arm surgical imaging system. X-Pano uses automated stitching algorithms to acquire full-length images of both planes within a few seconds. Images obtained can be sent through PACS for measurement such as COBB angle in spinal scans.

Time and Cost

X-Pano is performed while the patient remains on the OR table. This can remove an entire series of procedural steps normally involved with a spine or full-limb X-ray, potentially also reducing cost. Images are acquired easily by moving the system along the table. Images are then automatically stitched together along the whole length of the spine and presented on the G-Arm operating station's dual monitors.



OPTIMIZED WORKFLOW
Designed for the innovative surgeon

Whether in the OR or any other fast-paced setting, G-Arm's ergonomics are optimized for ease of use.

Featuring motorized rotation in both **orbital and axial directions**, the G-Arm captures the desired angle for each image. This increased range of motion also enables the G-Arm to work with all surgical tables.

Smooth **motorized movements** can be operated directly or remotely for rotation, height settings, and SID distance to give a comprehensive range of agility with minimal effort and reduced disruption to the sterile field.

High Definition bright **19" monitors** have 270 degrees freedom of movement so they can be viewed from many positions.

An **intuitive console touch screen** combined with anatomic presets supports simplified workflow and improved productivity. Function selection, image manipulation and patient retrieval are easily accessible and straightforward.

Our dual laser positioning system aids in aligning the target area for advanced clinical precision.

All of this, combined with the unique bi-plane X-Beam view and advanced algorithms, produce a fast and efficient user experience.

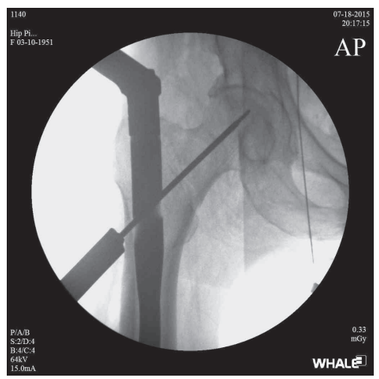
COMPREHENSIVE DATA MANAGEMENT
Seamless communication and storage

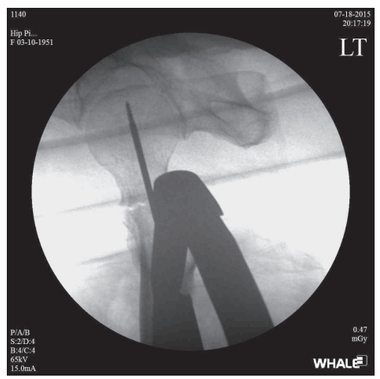
In today's highly integrated hospital communications environment, it is important to be able to **transfer data effectively and securely.** G-Arm has several options.

G-Arm's **DICOM 3.0** compliant interface connects easily to any hospital network allowing advanced information management of worklist functions. The integrated DICOM viewer allows extensive image manipulation and post processing, such as contrast, brightness, zoom and region of interest.

On-board storage allows up to 100,000 images to be stored in the system for prompt access.

Images can be exported in various formations via **USB** or **LAN**. A built-in storage bay allows a video graphic printer to be utilized for photo quality print images.





COMPLETE CARE
Comprehensive global and local support

Support for customers is our number one objective at Whale. Paired with our local and global distributor support network, we are available to assist with purchases, training, and technical support.

Technical support
We provide service and preventative maintenance through our national and global network of qualified engineers. Parts are stocked nationally and regionally.

On-site applications support
Experienced technical trainers ensure your team can achieve the maximum benefit from system use. Every G-Arm installation includes comprehensive on-site applications training.

ECONOMIC AND PROCESS IMPROVEMENTS
A smart investment

At Whale, we develop products with the objective of helping surgeons and administrators achieve greater efficiencies through process improvement. By utilizing time and optimizing procedures more effectively, procedural costs can be reduced. In today's evolving healthcare environment this can be a significant factor in achieving operational advantage and maximizing OR efficiencies. "Faster, safer, easier" is our mantra.

"Using less images invariably leads to less time. Isolating your anatomical points quicker, and getting your instrumentation placed appropriately reduces the length of surgery and fundamentally reduces the risk of surgery."

Matthew Philips, MD
Neurological Surgeon, Southcoast Health

Make G-Arm Duo Part of Your Surgical Experience

Contact us today!

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STAY CONNECTED

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