



Making the difference with Philips Live Image Guidance

Philips BV Vectra mobile C-arm system

Together we make the difference where it really matters in surgical imaging. Take advantage of clear visualization of dense and complex anatomy, quick positioning, and solid performance in a surgical environment to provide fast and accurate diagnosis and treatment.

Reliance on fast, quality imaging for orthopedic procedures is a given in your daily routine. Ease of use, ease of positioning, and the power to penetrate complex anatomies are key requirements. Our BV Vectra mobile C-arm system is intuitive to operate. You simply point and shoot. Its high quality images support you in providing excellent care. This compact system is dedicated to orthopedic surgical procedures, including trauma, spine, and pain management. The BV Vectra is perfect for visualizing difficult spiral or comminuted fractures to support the treatment of virtually everything from simple to challenging fractures.

Key advantages

- Consistently crisp images that reveal the intricacies of orthopedic injuries and disorders with 1k x 1k digital imaging chain
- Point and shoot for high quality images time after time with BodySmart, Digital Exposure, and MetalSmart
- Easy to maneuver the C-arm and access small and large patients with excellent C-arm depth and angulation reach

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Better user experience to promote greater consistency and efficiency

In the OR every minute counts. The easier a system works, the better. Our controls are designed to help all users operate the system quickly and intuitively, even with limited training. Clear icons and step-by-step menus provide extra guidance, allowing efficient procedures.

To quickly check a position without using excessive X-ray dose during an orthopedic or pain management procedure, you can acquire images by just quickly tapping the foot or hand switch.

Save additional time using our unique BodySmart. It allows you to acquire fast and consistent images even at the edge of the image intensifier, which further improves the workflow in high pressure operating environments.

Consistent imaging of dense and complex anatomy is much easier with BV Vectra thanks to our Digital Exposure and High Definition Fluoroscopy modes. Just press the foot or hand switch to quickly switch between these X-ray modes and efficiently treat patients.



The BV Vectra is a fully counterbalanced mobile C-arm system. The system consists of a C-arm stand with compact foot and rear-wheel steering for easy maneuverability and positioning. The intelligent design of the Mobile View Station provides the user with excellent viewing and image storage capabilities.

Cervical spine Off Center without BodySmart	Cervical spine Off Center with BodySmart	
		<p>High quality images are available fast thanks to Philips unique BodySmart software, which delivers consistently superb image contrast. It tracks and precisely defines the field of view to anatomy – no matter where it is on the image intensifier.</p>

Greater insight and confidence in finding and treating the problem

With its dense and complex nature, orthopedic anatomy presents unique challenges for imaging systems. The BV Vectra features 1k x 1k, high-resolution digital imaging chain with an array of powerful image processing functions. Advanced noise reduction and 2D edge enhancement provide you with high quality images to reveal the intricacies of orthopedic injuries and disorders. It supports you in quickly visualizing complex bone structures to aid in the precise positioning of implants.

Consistent imaging even when metal is present in FOV

Artifacts from metal objects such as orthopedic implants, can be problematic during X-ray imaging because of the dark bands or streaks across the images caused by the effects of the metal on X-rays. These metal artifacts can hide anatomical structures and pathology, hindering visualization and reducing diagnostic confidence. The BV Vectra includes our MetalSmart feature which automatically adjusts the contrast and brightness of images to improve image quality when metal objects are present in the field of view.

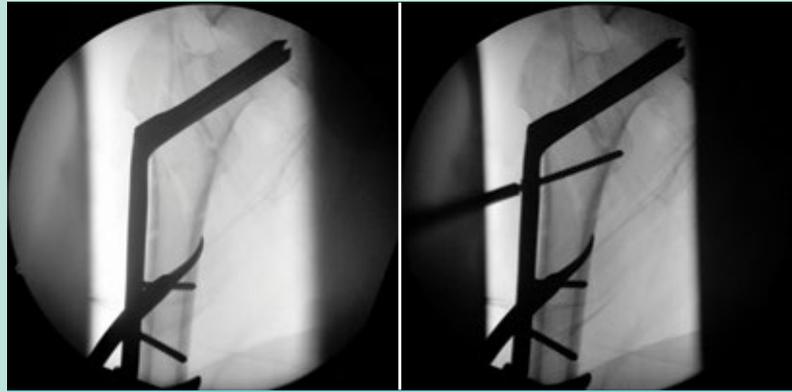


Image 2 was taken with MetalSmart feature and shows the anatomy with excellent clarity compared to image 1 captured without MetalSmart feature.

Lower barriers for orthopedic procedures

With every new system, we build on our decades of imaging experience to look at how we can further reduce X-ray dose while increasing image quality. Our comprehensive dose management features include:

- Pulsed fluoroscopy mode can reduce X-ray dose significantly
- Our unique beam filters reduce patient skin dose by approximately 40% over conventional filters
- Our fully automatic MetalSmart feature excludes the metal artifacts without affecting the contrast of the image and also the X-ray dose
- Dose reporting, dose display and an alert when exceeding a pre-defined procedure dose-level contribute to an increased dose awareness in the OR



Increased economic value

When you partner with Philips, you are partnering with a leading global brand known for the quality and reliability of its imaging systems, services, and support. You can rely on our full support throughout the whole lifecycle to help reduce your operational costs and extend the useful life of your system. Thanks to our ongoing commitment to developing technology, your BV Vectra system can stay up-to-date throughout its lifecycle, embracing new applicational demands and technical advances as they arise.

Your needs, your support

As your healthcare business changes, we are changing right alongside you. Today's healthcare providers are looking for more flexibility in the support they receive from their imaging partners. Just as our BV Vectra is the result of a close collaborative process. Our Service Agreements have been designed from the ground up based on extensive input from healthcare providers to meet their service challenges and business priorities.

Safeguard uptime with our global service network

Your system's uptime and productivity is backed by our extensive global resources. Over 6,000 highly experienced service technicians provide professional support to customers in every corner of the world, 24/7. For instance, Philips Remote Services can identify, diagnose, and troubleshoot system errors online with minimal on-site visits to save you time, money, and lower your total cost of ownership.

A long-term reliable partner

When you invest in the BV Vectra you invest in the future. Philips was the first company to market the mobile C-arm. That means every time you step on the pedal you are supported by over 60 years of Philips experience in developing and servicing mobile C-arms. When it comes to delivering reliable performance in high stakes surgical environments all over the world, we know all about providing consistent, high quality imaging support, regardless of the procedure or patient.

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Availability in other countries subject to local approvals, please contact your local representative.

Please visit www.philips.com/BVVectra



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www.philips.com/healthcare
healthcare@philips.com

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Together, we drive growth and open doors to new procedures and techniques that truly make a difference in people's lives while reducing the cost of care.

X-ray Generation

X-ray Tube	Fixed Anode Tube
Nominal Focal Spot	0.5/1.5 mm
Generator output	2.3 kW, 40 kHz HF Generator
Anode Cooling Capacity	51 KHU/min

Imaging Chain

Image intensifier	9" Triple mode HRC
TV Camera type	Progressive scan CCD, 1K ²
Constant beam filtration	0.1 mm Cu + 3 mm Al
Image Processing	16 bit with motion detection
Digital Exposure	21 mA

Geometry

C-depth	660 mm
Angulation	125° (-35° to +90°)
Source to Image Distance	980 mm

Mobile Viewing Station

Image Storage	140,000 images
Image Portability	CD/DVD, USB and DICOM
Display	19" dual LCD monitors