Xperius® Ultrasound System
Responsive | Advanced | Simple
Reimagining Regional Anesthesia with Ultrasound Imaging

Enhancing regional anesthesia procedures by combining more than 300 years of experience in healthcare

B. Braun and Philips have listened to clinicians all over the world to understand the concerns and challenges you face every day with common ultrasound systems. Our first solution is Xperius, designed to advance the daily practice of regional anesthesia and simplify the process of ultrasound imaging. Together – every day – we will continue to create innovative solutions in Regional Anesthesia and Vascular Access.
Xperius Ultrasound System

Designed around you to seamlessly fit into your care area

Advanced Ergonomics – A new way of working
Xperius is a Point of Care Ultrasound System for diagnostic and interventional purposes dedicated to enhance ultrasound guided Regional Anesthesia and Vascular Access applications. The system offers a high degree of mobility and flexibility combined with an ergonomic design to help improve your daily practice.

A fully articulating arm allows easy adjustments of the ultrasound monitor position and the angle of the screen for ergonomic use and a view on the screen. It allows you to bring the screen and touch controls at arm’s length so you can operate the system by yourself. With 4 transducer holders, convenient storage, and a work desk you can easily access everything you need during the procedure.

Intuitive Interface & Advanced Technology Design
- Multiple presets - 5 specific for Regional Anesthesia/Vascular Access
- Intuitive touchscreen
- Start scanning
- Built-in Wi-Fi for DICOM data transfer
- NeedleViz Technology

Ready-to-go for Bedside Scanning
- Long lasting battery - up to 3 hrs. of scanning
- Lightweight and easy to handle

Design Features
- Improved Workflow
- Advanced Ergonomics
- Convenient Accessory Bins
- High Mobility & Portability
- Designed by Philips & B. Braun
Articulating Arm
- flexible rotation in every direction
- height-adjustable

Core Ultrasound Technology
- small, lightweight and comfortable transducer with USB connector

Convenient Storage
- everything needed for procedures is within reach

FIGURE 1 | Thanks to the Articulating Arm you can find your most comfortable position for ultrasound imaging.

Also available and sold separately: Xperius Mobile Workspot
Take advantage of the portable device for quick bedside scanning or interventions in your facility, on-the-go, and at satellite locations.
High performance technology makes getting a great image easy

Expect exceptional image quality with minimal adjustments
The B. Braun and Philips alliance leverages Philip's decades of experience and leadership in image guided therapy to deliver high quality clinical images to the point of care in Regional Anesthesia.

Xperius provides high quality images of nerves and tissue structures for confident needle targeting and positioning. And the predetermined settings are designed so you can spend less time adjusting controls and more time focusing on your patients.

Design Features
- High Definition Imaging
- Enhanced Needle Visibility
- New Generation of Probes
- M-Mode

High quality imaging improves anatomical visualization
Xperius' advanced transducer technology, with its high refresh frame rate, helps improve imaging and is designed for fast scanning, visualization, and identification of injection site.

Vision technologies designed to provide high quality images quickly and easily
- **SonoCT** acquires multiple lines of sight and compounds them in real time. Your images have fewer artifacts, improved contrast resolution, and better defined tissue margins.
- **XRES** works in tandem with SonoCT to further reduce artifacts, and improve contrast resolution and border definition.
- **AutoSCAN** automatically identifies tissue type and continuously adjusts the image gain while scanning to achieve enhanced uniformity and tissue brightness.
- Enhanced needle visibility through innovative **NeedleViz Technology**.
Advanced Philips technology inside gives you pure simplicity outside – curved and linear transducer with USB connector

With the Xperius core imaging technology packed into the transducer (L12-4, C5-2), the transducer and USB cable are designed to be small, lightweight, and comfortable. It offers a high quality image for superficial and deep blocks.

FIGURE 1 | Easy and quick attachable USB connections at the transducer and at the Xperius cart system.

4 modes available to support varied clinical applications

- **2D** - This mode is the most commonly used imaging mode. In 2D mode, the image is displayed in grayscale.
- **M-mode** - Includes live updates of ultrasound and M-mode presented in 3 selectable viewing options: small over large, side by side or full screen.
- **Color** - The velocity and direction of flow in the color box are represented with different colors for direction and different shades for velocity.
- **CPA (Color Power Angio)** - The amplitude (intensity) of blood flow in the CPA box is represented with different hues. CPA is useful for showing slow or diminished flow.
Xperius Ultrasound System
Intuitive and easy to use

SIMPLE

Helps you to focus on patients and not on controls
Xperius is designed with intuitive touch and gesture controls that you probably already know from your smart devices. Its simple interface workflow design supports daily routines and provides specific presets for procedures in Regional Anesthesia and Vascular Access.

Intuitive touchscreen
You can use many familiar touchscreen gestures:
• tap on icons to open features
• pinch zoom in and out of images
• wipe to adjust gain and depth
• pan the screen to adjust your color Doppler gate
• scroll through images

Design Features
✓ Intuitive User Experience
✓ Touch Screen & Gesture Control
✓ Dedicated Regional Anesthesia & Vascular Access Presets
✓ Wi-Fi Connectivity
You’ll quickly become familiar with the Xperius touchscreen user interface

The multi-touch ultrasound system is designed to deliver just the right features and on-screen controls you need to perform regional anesthesia.

Xperius helps provide care in less time. That is good for your patients and good for your practice.

- 5 presets (3 nerve, Fast, 1 lung, 1 Vascular).
- 4 modes: 2D, Color, CPA, M-Mode
- Wake the system from sleep and start scanning.
- System can be used for scanning up to 3 hours on a new fully charged battery.
- Built-in Wi-Fi for DICOM data transfer to hospital, and cloud PACS to easily share and store images.
## Product Information

For Xperius and accessory products

<table>
<thead>
<tr>
<th>Xperius</th>
<th>Description</th>
<th>Units per Case</th>
<th>Code No. (REF)</th>
</tr>
</thead>
</table>
| **Xperius Cart System with 1 transducer L12-4** | ![Image of Xperius Cart System with 1 transducer L12-4](image) **Type of unit:** Compact cart-based point-of-care ultrasound system with fully articulating arm and linear L12-4 transducer  
**Imaging mode keys:** 2D, color doppler, Color Power Angio (CPA), M-mode  
**Image Processing:** AutoSCAN, XRES, duplex imaging, 5x pan/zoom, dynamic range up to 170 dB (full time input)  
**Gray shades:** 256 (8 bits) in 2D  
**Needle Visualization Software:** NeedleViz  
**Image enhancement controls:** SonoCT, XRES  
**Patient-specific optimization keys:** AutoSCAN, iSCAN  
**Data:** 256 GB hard drive, loop length up to 25 seconds, USB ports (5), data drive encryption (patient data), Cine review available (up to 1,000 frames)  
**Connectivity:** HDMI, 5 USB ports on cart, 1 USB port and 1 ethernet port on tablet, Wi-Fi, DICOM networking and Philips Remote Services  
**Display:** 15.6 inch (39.6 cm) 1920 x 1080 LED-backlit IPS display  
**Dimensions:** 52.2 in. (132.5 cm) x 22 in. (56 cm) x 26 in. (66 cm) (H/W/D)  
**Weight:** 75 lbs. (34 kg) (cart, system, printer, power supply, and transducer)  
**Power Supply:** Rechargeable lithium ion battery, AC Adapter  
**Battery operating time:** over 3 hrs. of scanning on a full charge | 1 | 9896 0547 0201-02 |
| **Xperius Cart System with printer and 1 transducer L12-4** | ![Image of Xperius Cart System with printer and 1 transducer L12-4](image) **Type of units:** Point-of-care tablet ultrasound system with kickstand and linear 12-4 transducer  
**Dimensions:** 11 in. (28 cm) x 16.5 in. (42.0 cm) x 1.9 in. (5 cm) (H/W/D)  
**Weight:** 7.9 lbs. (3.6 kg) | 1 | 9896 0547 0211-02 |
| **Xperius Mobile Workspot with 1 transducer L12-4** | ![Image of Xperius Mobile Workspot with 1 transducer L12-4](image) **Type of units:** Point-of-care tablet ultrasound system with kickstand and linear 12-4 transducer  
**Dimensions:** 11 in. (28 cm) x 16.5 in. (42.0 cm) x 1.9 in. (5 cm) (H/W/D)  
**Weight:** 7.9 lbs. (3.6 kg) | 1 | 9896 0547 6671-02 |
<table>
<thead>
<tr>
<th>Xperius Accessory Items</th>
<th>Description</th>
<th>Units per Case</th>
<th>Code No. (REF)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single Transducer Linear</strong></td>
<td><strong>L12-4 broadband linear array transducer</strong></td>
<td>1</td>
<td>9896 0545 1171-02</td>
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<tr>
<td></td>
<td>• 12 to 4 MHz extended operating frequency range</td>
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<tr>
<td></td>
<td>• Aperture size: 1.3 in. (34 mm)</td>
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<td></td>
<td>• High resolution imaging for shallow applications</td>
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<td></td>
<td>• Center line marker</td>
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<td></td>
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<tr>
<td></td>
<td>• USB transducer with replaceable cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Single Transducer Curved</strong></td>
<td><strong>C5-2 broadband curved array transducer</strong></td>
<td>1</td>
<td>9896 0545 1181-02</td>
</tr>
<tr>
<td></td>
<td>• 5 to 2 MHz extended operating frequency range</td>
<td></td>
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<tr>
<td></td>
<td>• 2 in. (50 mm) radius of curvature</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• High resolution imaging for deeper applications</td>
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<td></td>
<td>• Center line marker</td>
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<td></td>
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<tr>
<td></td>
<td>• USB transducer with replaceable cable</td>
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<tr>
<td><strong>Peripherals</strong></td>
<td><strong>Printer Sony UP-D711MD</strong></td>
<td>1</td>
<td>9896 0545 2822 -02</td>
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<tr>
<td></td>
<td>• High-quality digital graphic printer</td>
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<td></td>
<td>• Easy to connect within dedicated Xperius printer slot</td>
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<tr>
<td></td>
<td>• Dimensions: 2.7 in. (7 cm) × 5.5 (14 cm) × 5 in. (12.5 cm) (H/W/D)</td>
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<tr>
<td></td>
<td>• Weight: 2.2 lbs. (1 kg)</td>
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<tr>
<td></td>
<td>• Monochrome, black/white, A7 paper size</td>
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ULTRA 360 Family

Stimuplex® Ultra 360®, Ultraplex 360® and Contiplex® Ultra 360 needles feature B. Braun’s new echogenic 360° X-pattern.

The ‘X’ is a unique shape, which when combined with a clear coating, reflects more ultrasound waves back to the probe than previous designs.* These needles are designed to provide visibility without compromising puncture characteristics, featuring the same 30° bevel found on B. Braun’s other market-leading Stimuplex needles.


<table>
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<tr>
<th>Description</th>
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<th>Code No. (REF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Shot Nerve Block Tray:</td>
<td>10</td>
<td>332137</td>
</tr>
<tr>
<td>Stimuplex Ultra 360 20 Ga. x 4” needle with integrated wire, transducer cover and ultrasound gel - 30 cm, ChloraPrep® chlorhexidine gluconate 2% and isopropyl alcohol 70%, and other procedural components</td>
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<td></td>
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* Internal ETR testing

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