

# Competitive comparison of handheld ultrasound devices Key highlights

A cross-sectional study, <u>Comparison of 6 handheld ultrasound devices by point-of-care ultrasound experts:</u> <u>a cross-sectional study | The Ultrasound Journal | Full Text (springeropen.com)</u>, compared six leading handheld ultrasound devices, including the Vscan Air<sup>™</sup> by GE HealthCare, Butterfly iQ<sup>™</sup>, Clarius<sup>™</sup>, Kosmos<sup>™</sup>, Lumify<sup>™</sup>, and Mindray<sup>™</sup>. A group of 35 POCUS (point-of-care ultrasound) experts from various medical specialties (including internal medicine, critical care, emergency medicine, and nephrology) evaluated these devices by acquiring and rating standard ultrasound views on standardized patients. The key aspects reviewed were image quality, ease of use, and overall satisfaction.

## **Key Findings:**

## Ease of Use:

Vscan Air<sup>™</sup> was rated the easiest handheld ultrasound to use by POCUS experts, making it the ideal device for clinicians who need efficient, intuitive technology.

## Leading in Image Quality for Key Applications:

Vscan Air<sup>™</sup> outperformed competitors in imaging the right upper quadrant, one of the most essential ultrasound views for abdominal assessments.

## **Overall Satisfaction Leader:**

Vscan Air<sup>™</sup> ranked highest in overall satisfaction, combining ease of use and image quality, two of the top criteria for clinicians selecting an ultrasound device.





#### Mean Ratings of Handhelds by Ease of Use and Image Quality

#### Purchasing decision of handheld to carry in pocket by POCUS experts

## **Clinicians' Preferred Choice:**

When considering all factors, Vscan Air<sup>™</sup> emerged as the most preferred device for purchase by the experts involved in the study.



## Advantages of Vscan Air™:

- Exceptional Image Quality: Rated highest for imaging the right upper quadrant (71% satisfaction).
- Wireless Connectivity: 66% of respondents highlighted its wireless capability, eliminating the hassle of cables.
- 2-in-1 Probe: It's versatile 2-in-1 probe design was favored by 60% of respondents.
- Portability: Compact, lightweight, and highly portable, Vscan Air™ is perfect for clinicians on the go.

## **Conclusion:**

The study demonstrates that while all six handheld ultrasound devices have their strengths, the Vscan Air<sup>™</sup> stands out as the most well-rounded device, excelling in both ease of use and image quality. Clinicians consistently rated Vscan Air<sup>™</sup> highest in overall satisfaction, making it the preferred choice. Its combination of wireless connectivity, compact design, ease of use and superior imaging capabilities positions it as a leading tool for point-of-care ultrasound, catering to the diverse needs of healthcare professionals.

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Vscan Air™ is the **leading choice for clinicians** seeking reliable, portable, and high-performance handheld ultrasound technology.



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