



# Sustainable women's health ultrasound solutions for a resilient tomorrow

Voluson™ Signature Series Ultrasound  
Voluson S10 Expert, Voluson S10, and Voluson S8/S8 with Touch Panel





# Creating a more sustainable future requires us to care for the planet and its inhabitants.

It is essential that we continue to drive progress toward early, precise, and accessible diagnosis and treatment of more patients. For the planet, it is critical that we do so with a reduced impact on precious and rare resources that are imperative to life. We believe that the advancement of precision health, greater digitization of healthcare, and increased access to quality care are fundamental to accomplishing this goal.

We support carbon policies that reduce greenhouse gas emissions and promote sustainable development. We are committed to achieving net zero by 2050 and are part of the UN-backed “Race to Zero,” with a goal of reducing emissions based on the Paris Agreement. We’ve also set a public goal to achieve a 50% reduction in our own operational emissions by 2030. As a result of these efforts, we want to enable a more sustainable health system by addressing not only the environmental impacts of our products but also the challenges healthcare professionals and their patients face with resilient, digital options.



We are committed to achieving **net zero** emissions by 2050.

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**We deliver sustainable,  
intelligently efficient  
solutions for a resilient  
tomorrow.**

Building a healthier world to  
help improve access to care and  
enable better patient outcomes.



**Green**

Using fewer resources for a healthier planet.

**Digital**

Transforming healthcare through innovation.

**Resilience**

Building flexibility and dependability across healthcare systems.



## Voluson Signature Series ultrasound helps create a resilient tomorrow.

Voluson Signature Series and its services help ensure that women's health professionals and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

### Reducing environmental impact

- Voluson Signature Series systems are designed to be refurbished, reused, or recycled at the end of their product life to minimize unnecessary waste.

### Improving outcomes

- AI-based measurement tools reduce exam time and increase measurement accuracy.
- Ergonomic design improves the user experience and reduces strain on clinicians and system operators.
- Voluson Core Architecture enables precise clinical decisions through exceptional image quality across a wide range of women's health applications.





# Contributing to a healthier planet

**More than half of the healthcare sector’s climate footprint, approximately 53%, is attributable to energy use.**<sup>1</sup> As a result, we have strengthened our commitment to environmentally conscious design and sustainable practices across our product manufacturing, sourcing, distribution, installation, and service operations. This includes improving energy efficiency, optimizing the use of limited or rare materials, providing digitally enabled and remote predictive and maintenance service throughout the product lifespan, and offering refurbishment and recycling options at the end of product life.

**GE Healthcare environmental management system is ISO 14001 certified**

Our production and service operations align to ISO 14001 standards.

**We’re committed to environmental product design**

The Voluson Signature Series conforms with IEC60601-1-9.

## Materials

GE Healthcare reviews the environmental aspects of the material supply used within our products to increase recyclability and decrease the use of hazardous substances, when possible.

### Recyclable

Approximately 62% of the raw materials in the Voluson S10 Expert are recyclable.

Steel: 24.334 kg / 27.0%  
Aluminum: 31.500 kg / 35.0%

Approximately 58% of the raw materials in the Voluson Series S8/S8 with Touch Panel are recyclable.

Steel: 21.55 kg / 24%  
Aluminum: 30.38 kg / 33.8%

We’re committed to high recyclability of our products and reuse when possible.

### Reduce the use of hazardous substances

EU RoHS directive 2011/65/EU

REACH (EC) 1907-2006

Voluson Signature Series ultrasound consoles are in compliance with the European RoHS Directive 2011/65/EU, including Commission Delegated Directive (EU)2015/863.

Voluson Signature Series ultrasound consoles comply with the REACH Regulation (EC) No 1907/2006.

<sup>1</sup> Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org)



## Packaging and distribution

GE Healthcare imaging equipment has a robust and multi-sourced supply chain for systems and spare parts across all product portfolios.

### Improved packaging

Reusable packaging is used for all Voluson Signature Series consoles.

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Ultrasound console packaging for Voluson S10 and Voluson S8:

Cardboard consists of recycled content and can be recycled as well.  
PE foam can be recycled.

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**Product transportation** Voluson Signature Series data from Seoul, Korea, site in 2021:

Air: 99.3%  
Ocean: .07%

## Manufacturing

Through our environmental reviews, we also focus on implementing renewable energy and reducing waste.

### Reducing electricity

The Voluson Signature Series is manufactured in Seoul, Korea. The facility uses 100% renewable district heating for part of the facility; the rest is a combination of renewable and nonrenewable energy.

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In 2021, the total consumption was divided as follows:

95,450 kW·h fully renewable

1,368,532 kW·h partly renewable, partly non-renewable, depending on vendor capacity

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### Voluson Signature Series

Electricity: 70.35 kW

Gas: 25.64 MJ (7.12 kW)

Water: 0.239 m<sup>3</sup>



## Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact.

## Ergonomically designed

### Reduce staff burden

Operators and clinicians can adjust Voluson ultrasound consoles for comfort and ease of use. The consoles are adjustable:

Voluson S10 Expert & Voluson S10:  
Swivel left-right: +/- 30° from center;  
Lift up-down: 200 mm (7.9 inches)

Voluson S8/S8 with Touch Panel:  
Swivel left-right: +/- 30° from center;  
Lift up-down: 270 mm (10.6 inches)

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Cable hooks are available for integrated cable management of ultrasound probes.

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Ultrasound probes are designed with handheld-conforming shapes.



## Product utilization (Cont.)

### Guidance for product utilization

Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation.

### Reduce energy consumption during use

A screen saver can be set to appear after a definable period of inactivity.

When in Auto Scan Stop, freeze mode is activated after five minutes of inactivity.

After an hour of inactivity, the system automatically activates freeze mode, even when Auto Scan Stop is not enabled.

Standby mode uses 96.5% less energy than ready-to-scan mode and more than 97% less energy than scan mode.

Voluson Signature Series  
Non-scan mode: 113 W  
Scan mode: 197 W

### Power consumption

There are zero direct carbon emissions at place of use.





## End of product life

We are increasingly putting our retired products' materials back into the supply chain to maximize efficient use and minimize unnecessary waste. This circularity model enables our imaging products to extend their clinical impact through longer lifespans while reducing the environmental footprint. Additionally, we offer our customers partnered support for upgrades and services throughout a product's lifespan to maintain optimal performance and help drive better patient outcomes.

Our refurbishment programs involve an extensive inspection and testing process, designed to bring equipment back to its original certified manufacturing specifications. If the system is not suitable for refurbishment, eligible parts are harvested for reuse after quality and performance testing, while the rest are returned to dedicated recycling facilities.

## Product utilization (Cont.)

### Guidance

Equipment instructions are provided to minimize the environmental impact for disposal or recycling.

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### Upgradeable hardware and software options are provided as a solution to extend the product lifespan.

Upgrades are available for Voluson Signature Series.

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### Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.

94–96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product.<sup>2</sup>

Voluson Signature Series ultrasound system parts are eligible for assessment through the refurbishment program, in which they are assessed for refurbishment, harvesting, or recycling at the appropriate time in the lifespan.<sup>2</sup>

100% of Voluson Signature Series ultrasound consoles are eligible for refurbishment.

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### Waste reduction

This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations.

<sup>2</sup> Products within ultrasound are eligible for refurbishment, although whether a system is refurbished versus harvested for parts or otherwise recycled or reused is dependent on the state of the system when GE Healthcare takes possession of it. Data on file.



## Digitizing healthcare through transformative innovations for a resilient tomorrow

We are committed to investing in digital capabilities that help accelerate clinical decision making, optimize imaging operations, and drive efficiencies in exam workflows, all of which can improve patient outcomes. Enabling digital transformation will further enhance our predictive and maintenance service operations for the life of your products.

**We are also dedicated to driving a more resilient and sustainable future in healthcare.** Many factors, including the pandemic, climate-related weather disasters, and supply-chain issues amplified this need. Managing operations through these challenges requires resilience and perseverance.

### Advancing clinical outcomes

Advanced applications and cutting-edge AI tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

#### Gain actionable clinical insights quicker for earlier diagnosis

Voluson Signature Series features SonoCNS, which enables an 82% reduction of keystrokes when measuring the fetal brain.

Voluson Signature Series is designed to download software updates when they are available using InSite™ ExC and Tricefy™.

The optional Voluson Remote Updates feature allows vital updates (e.g., patches) to be remotely downloaded and installed to Voluson Signature Series systems.

Voluson Core Architecture enables precise clinical decisions through exceptional image quality across a wide range of women's health applications.

#### Keep your imaging equipment up to date with advanced clinical applications

Voluson Signature Series combines AI and analytics-driven healthcare applications to increase productivity, streamline workflows, minimize rework, and deliver the most personalized patient care possible.



## Optimizing imaging operations

Our AI-based and advanced digital solutions are designed to increase efficiencies across the radiology spectrum without increasing the administrative and training burden on radiologists and technologists.

### Increase productivity and consistency

iCenter™ analytics provides insights for hospital managers to improve operational performance, asset utilization, and asset performance.

### Reduce downtime

GE Healthcare's predictive analytics tools reduce downtime, optimize workflow, and reduce service interventions.

The remote service platform InSite connects you with a GE Online Service Engineer or Applications Support Engineer. It has remote diagnostics capability as well as the ability to request service.

Software updates may be available for download via Voluson Remote Updates.

### Cybersecurity

GE Healthcare's Design Engineering Privacy and Security (DEPS) process follows GDPR, HIPAA, NIST 800-53, NIST 800-30, ISO 27001, and NIST CSF requirements.



## Enabling intelligent exam workflows

Intelligent automation features help drive consistency, enable fast, easy exams, and improve workflow with fewer resources, all while achieving similar or improved outcomes.

### Reduce setup time

Users can easily access patient information from an external Worklist Server.

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### Reduce exam time

A suite of applications, including Scan Assistant and SonoAutomation tools, are designed to improve workflow and can substantially reduce keystrokes and analysis time, leading to increased efficiency and shorter exams.

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### Ease of use

Uterine Trace can reduce keystrokes up to 78% versus the standard OmniView process.

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### Cleanability

Our equipment is designed to be cleaned and disinfected easily. We continue to test and approve new cleaning and disinfecting agents. Visit [Cleaning.GEHealthcare.com](https://www.gehealthcare.com/cleaning) for updates. This includes validated cleaning and disinfection instructions for probes.



**Building a healthy world to help enable better patient outcomes.**

GE Healthcare is a member of COCIR, the European Trade Association representing the medical imaging, radiotherapy, health ICT, and electromedical industries.<sup>3</sup>

<sup>3</sup><https://www.cocir.org/about-cocir/members.html>

*Not all products or features are available in all geographies. Check with your local GE Healthcare representative for availability in your country. Not all features are included in the standard system configuration. Check with your local GE Healthcare representative.*

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