

Focusing on sustainability in ultrasound



LOGIQ™ e Ultrasound



GE HealthCare

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 medicine, 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. GE HealthCare is committed to achieving net zero by 2050 and we have signed up to the Science Based Targets initiative (SBTi) business ambition for 1.5C, a group of visionary corporate leaders taking ambitious climate action, and we have committed to implementing science based targets. This includes a public goal to reduce operational emissions (scope 1 and 2) by 50% by 2030 against a 2019 baseline. 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 solutions.



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We've set a public goal to reduce operational emissions (scope 1 and 2) by 50% by 2030.

Leading a new era in sustainability for a more resilient tomorrow

We're creating a world where healthcare has no limits, helping to improve access to care and enable better patient outcomes.



Environmental

Using fewer resources for a healthier planet.

Digital

Transforming healthcare through innovation.

Resilience

Building flexibility and dependability across healthcare systems.

LOGIQ e helps create a more sustainable tomorrow

Our LOGIQ e ultrasound and its services help ensure clinicians and the patients they serve have the technology necessary to create a more sustainable and resilient tomorrow.

Reducing environmental impact

- LOGIQ e systems are designed to be refurbished, reused, or recycled at the product service life.
- Wuxi manufacturing site is partially powered by energy from solar sources.

Improving care

- High-definition image quality for ultrasound diagnosis and monitoring injuries and diseases
- Needle guidance for biopsy
- Portable and robust



Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.¹ As a result, we have strengthened our commitment to environmentally conscious design and we are implementing more 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 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

This product conforms with IEC60601-1-9:2007.

¹ Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org), based on 2019 report

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.

Recyclability

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

Our LOGIQ e contains more than 56% recyclable aluminum and steel, including:

Steel: 20%

Aluminum: 36%

Reduce the use of hazardous substances

EU RoHS directive 2011/65/EU

REACH (EC) 1907–2006



Packaging

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

Product packaging

Packaging material is recyclable and FSC certified.

More than 99% of LOGIQ e packaging material can be recycled, including:

Corrugated cardboard: 78%

PE plastics: 21%

Product transportation

Wuxi site

Air transport: 80%

Truck transport: 19%

Ocean transport : 1%

Some product transportation utilizes low environmental impact modes.

Manufacturing

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

Renewable energy

Wuxi site set up the solar power system on roof, which generates about 100M kWh/year power.

Reducing electricity

Energy-efficient air conditioning & smart energy management system to introduce to reduce energy consumption by 80 M kWh/year.



Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact. Ergonomic design can help to enhance health and potentially reduce environmental impacts, such as reducing waste and saving energy.

Ergonomically designed

Patient setup and positioning

The small print design make system easy to place at patient position.

LOGIQ e R9: LxWxH: 375 x 295 x 47 mm.

LOGIQ e R8: LxWxH: 346 x 295 x 70 mm.

A mobile cart is provided as a work platform at the patient's side.

Reduce staff burden

A mobile cart is provided to transport system around scanning room to be located next to the patient.

Reduce noise

Quiet Fan:

LOGIQ e R9: 36.3 dB

LOGIQ e R8: 44.6 dB



Product utilization

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

The system is designed to auto freeze after time of inactivity.

Backlight of keyboard turns off under bright environment.

Power consumption

Off Mode: 1.4 W
Standby (no scan): 1.4 W
Scan Mode: 80.5 W

Carbon emissions

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 support for upgrades and services throughout a product's lifespan, when available, 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 remaining parts are returned to dedicated recycling facilities.

Guidance for end of lifecycle

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

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

The software will keep updating for lifecycle maintenance and regulation standards update.

The hardware will keep updating for component lifecycle maintenance and regulation standards update.

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

LOGIQ e 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.²

LOGIQ e systems are reused, refurbished, or recycled, extending the lifetime of each product.

Waste reduction

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

² 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.

Digitizing healthcare through transformative innovations for a more 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.

Helping clinicians advance patient 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 for quicker decision making

Wide application scope with up to 16 types of probe selection to support a wide variety of scanning.

Up to 11 measurement packages available.

AUTO IMT tool helps to quickly acquire measurements of anterior and posterior wall thickness.

Keep your imaging equipment up to date with advanced clinical applications

LOGIQ e R8: Follow-up tool to track the patient condition over time.

LOGIQ e R9: Strain Elastography

LOGIQ e R9: High frequency probe designed for superficial MSK applications, strain elastography, and high frequency transducer L4-20t-RS available.

Enhancing image quality

LOGIQ e R8: High frequency probe designed for superficial MSK applications using the L10-22-RS.

LOGIQ e R9: High frequency probe designed for superficial MSK applications, wide band and high frequency crystal probe for image resolution that enhances the entire image field available.

Drive advancements with precision health

Needle visualization enhancement



Optimizing imaging operations

Our LOGIQ e is 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 provide insights for hospital managers to improve operational performance, asset utilization, and asset performance.

LOGIQ e provides the ability to perform remote viewing of images without compression.

Reduce downtime

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

iCenter analytics track metrics and deliver data on equipment status, maintenance history, and performance to help reduce downtime.

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

Software updates are available for download via eDelivery.

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 to drive consistency, enable fast, easy exams, and improve workflow with fewer resources.

Reduce setup time

Customizable function keys and UI

Customized configuration can be backup and restore

Reduce exam time

Provide complete preset

Control buttons on the L4-20t-RS and L4-12t-RS probes

Quick boot-up

Ease of use

Functions keys and UI is customized

Keyboard backlight auto control by environment brightness

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.



Creating a healthy world to help enable better patient outcomes.

GEHealthCare.com/about/sustainability

Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country. Commercial availability of GE HealthCare medical systems is subject to meeting local requirements in a given country or region. Not all features are included in the standard system configuration. Contact a GE HealthCare representative for more information. Intended for healthcare professionals only.

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