

GI Ultrasound Solutions

LOGIQ™ P-Series

How can it help in managing patients with respiratory conditions?

- **Evaluate and monitor patients' respiratory and cardiovascular condition** with acute respiratory diseases like COVID-19
- **Fast triage** of patients suffering from acute respiratory and cardiovascular disease
- **Easy to connect & share images with DICOM®** to PACS, Tricefy™
- **Portability** 1 hour offline scanning
- **Easy cleanability and dedicated screen** well-suited for isolation wards and infection control
- **Auto EF & Cardiac Strain Support**
- **L4-12t-RS button probe**

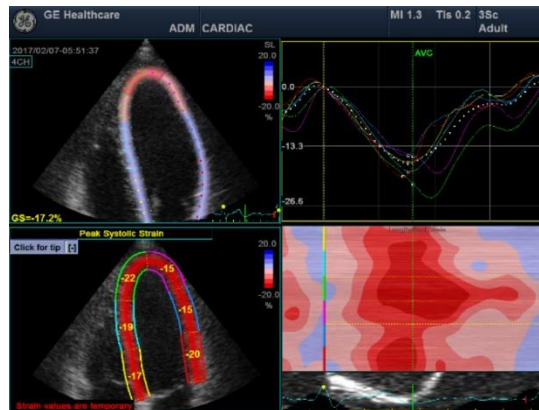
Power Assistant/Battery Scanning

- **Power Assistant** is an innovative solution that provides the system battery power during transport to help decrease system shut-down and reboot time – helping achieve excellent productivity for excellent portable exams
- **Extended-life battery** enables up to one hour of offline scanning



Cardiac Imaging: Auto EF & Cardiac Strain

- **Cardiac Imaging:** 3Sc-RS, 6S-RS, 12S-RS, 6Tc-RS
- **Auto EF** is a semi-automatic measurement tool used for measurement of the global EF (Ejection fraction)
- **Cardiac Strain** is the support tool for evaluation of the wall motion of the entire left ventricle or local region



Remote Tablet & Photo Assistant Support

- **Remotely operate** the system from tablet or phone that has LOGIQ Smart App loaded
- **Photo Assistant:** Photograph relevant anatomy and include photos with the clinical images



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- **L4-12t-RS button probe**
- **Scan Assistant**

L4-12t-RS Button Probe

- **Pre-programmed L4-12t-RS** button probe functions without accessing the touch panel and console controls to help preserve the sterile field



Compare Assistant

- **Help streamline comparison to prior exams:** Drives productivity for acquiring and reading the exam by designing a workflow that uses prior exam data
- A quick image comparison or a replicated prior exam to show current disease state



Scan Assistant

- **Predefined standardized exam protocols:** Walks user through all steps of image acquisition, reducing keystrokes, helping reduce stress and fatigue and supporting exam consistency
- **Scan Assistant Creator:** Provides flexibility to customize or create new protocols by the user and name them as deemed appropriate such as cardiac protocol or COVID patient exam protocol

Feature highlights

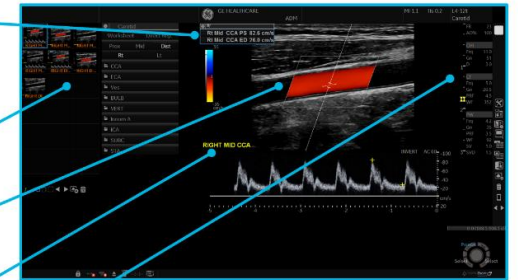
Initiates and completes user selected required measurements

Automatically reorders images to reader's preference

Automatically steers Color Doppler

Automatically inserts comments

Automatically sets up Imaging controls and modes



Cleaning and Disinfection

LOGIQ™ P-Series

Compatible Cleaning, Disinfection & Gel Products

Manual comes first: Make sure to guide the customer to user manual:

<https://customer-doc.cloud.gehealthcare.com/#/cdp/dashboard>

Updated information available on the website if new information becomes available between the releases: The user manual is available on board the system.

Under the PRODUCT category below, "*" denotes those that are listed on the United States.

[Environmental Protection Agency \(EPA\) website](https://www.epa.gov/) as a disinfectant for use against SARS-CoV-2, the cause of COVID-19.

<https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

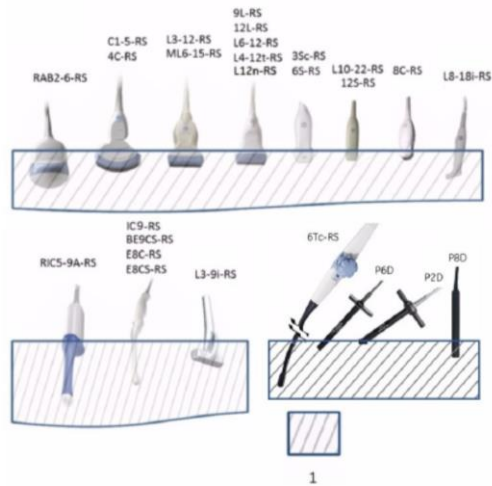


Figure 11-6. Probe Immersion Level
1. Fluid Level

Appropriate Cleaning Agents

Table 12-17: Appropriate Cleaning Agents

Component	Probe holder	User Interface *	Touch Panel	Monitor display	Housings	Probes	Air Filter	Peripherals (e.g. Printers ...)	
When to clean	See 'Maintenance Schedule' on page 12-52 for more information.								
How to clean	Wipe gently with a damp, non-abrasive cloth						See 'Cleaning and disinfecting probes' on page 17-17 for more information.	Clean with a vacuum cleaner from the outside	Clean according to the instructions for the peripheral manufacturer
Descosept Pur (ready for use)	X	X	X	-	X				
Descosept AF (ready for use)	-	X	X	-	X				
Cleanisept (ready for use)	-	X	X	-	X				
Ultrasol active (1.0% solution)	X	X	X	-	X				
Cleanisept Wipes fort (ready for use)	X	-	X	-	-				
Acryl-Des Wipes (ready for use)	X	X	X	-	X				
Accel TB wipes (ready for use)	x	x	x	-	x				

* Effective cleaning for parts with narrow gaps and holes (e.g. keyboard, trackball...) is not possible.



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Refer to User Manual

<https://customer-doc.cloud.gehealthcare.com/#/cdp/dashboard>

Probe Cleaning Process

To clean the probe:

NOTE: Do not immerse the probe into any liquid beyond the level specified for that probe (See 'Immersion Level' on page 11-30 for more information.). Never immerse the transducer connector into any liquid.



- Do not use paper products or products that are abrasive when cleaning the probe. They damage the soft lens of the probe.
 - Before storing the probes, ensure that they are thoroughly dry. If it is necessary to dry the probe after cleaning, blot the probe with a soft cloth.
1. Inspect the probe's lens, cable, casing, and connector for cracks, cuts, tears, and other signs of physical damage.
 2. Disconnect the probe from the ultrasound console and remove all coupling gel from the probe by wiping with a soft cloth and rinsing with flowing water.

NOTE: DO NOT wipe the probe with a dry cloth.

3. Soak the probe head in water. Scrub the probe as needed using a soft sponge, gauze, or cloth to remove all visible residue from the probe surface.
4. Rinse the probe with enough clean potable water.
5. Air dry or dry with a soft cloth.
6. After cleaning, inspect the probe's lens, cable, casing and connector. Look for any damage that would allow liquid to enter the probe. Also, inspect the probe functionality by live scan. If any damage is found, do not use the probe until it has been inspected and repaired/replaced by a GE service representative.

Ultrasound Systems

(currently being updated with LOGIQ P9/LOGIQ P7 information)

<https://cleaning.gehealthcare.com/>

Expected Update: FW16 Monday, April 13th

Choosing a Disinfectant

When choosing a disinfectant, determine the required level of disinfection. If the possibility of cross-contamination or exposure to unhealthy or non-intact skin exists, then high level disinfection should be performed. Good hand hygiene practice is highly recommended to help further reduce the risk of cross-contamination.



Disinfectant wipes and topical spray products are not FDA cleared high level disinfectants and do not provide adequate protection should the probe become cross contaminated or in contact with unhealthy or non-intact skin.

NOTE: For additional information about cleaning and disinfection, refer to the recommendations of the Association for Professionals in Infection Control (APIC), the U.S. Food and Drug Administration (FDA), and the U.S. Centers for Disease Control (CDC). For country-specific disinfection regulations, check with your local regulatory infection control authorities.



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Disinfecting probes

In order to provide users with options in choosing a germicide, GE routinely reviews new medical germicides for compatibility with the materials used in the transducer housing, cable and lens. Although a necessary step in protecting patients and employees from disease transmission, liquid chemical germicides must also be selected to minimize potential damage to the transducer.

Refer to the Probe Care Card enclosed in the probe case or to the following web site for the latest list of compatible cleaning solutions and disinfectants.

<https://cleaning.gehealthcare.com/>

Disinfecting probes (continued)

Use additional precautions (e.g. gloves and gown) when decontaminating an infected probe.

NOTE: *About the recommended disinfectant, review the probe care card that is packed with each probe.*

Low-level disinfection

1. After cleaning, the probe and cable may be wiped with a tissue sprayed with a recommended disinfectant.

NOTE: *In order for liquid chemical germicides to be effective, all visible residue must be removed during the cleaning process. Thoroughly clean the probe, as described earlier before attempting disinfection.*

2. After disinfecting, inspect the probe's lens, cable, casing and connector. Look for any damage that would allow liquid to enter the probe. Also, inspect the probe functionality by live scan. If any damage is found, do not use the probe until it has been inspected and repaired/replaced by a GE service representative.

NOTE: *See 'Probe Cleaning' on page 12-61 for more information.*



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Biological Hazard

For patient and personnel safety, be aware of biological hazards while performing invasive procedures. To avoid the risk of disease transmission:

- Use protective barriers (gloves and probe sheaths) whenever possible. Follow sterile procedures when appropriate.
- Thoroughly clean probes and reusable accessories after each patient examination and disinfect or sterilize as needed. Refer to *Probes and Biopsy* for probe use and care instructions.
- Follow all infection control policies established by your office, department or institution as they apply to personnel and equipment.

Sterile Ultrasound Procedures

ONLY ultrasound gel that is labeled as sterile, is sterile.

Ensure you always use sterile ultrasound gel for those procedures that require sterile ultrasound gel.

Once a container of sterile ultrasound gel is opened, it is no longer sterile and contamination during subsequent use is possible.



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Preparing for Surgery/Intra-operative Procedures (continued)

To ensure a sterile environment during the procedure, it is recommended that this be a two-person job.

1. Perform a high level disinfection of the probe.
2. The scanner (surgeon, sonographer, etc.) should be sterile and gloved.
3. Place an adequate amount of sterile coupling gel on the face of the probe.
4. Place the proper sterile sheath over the probe and cord.

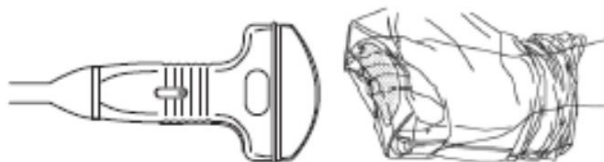


Figure 11-37. Applying Sterile Sheath

5. Depending on the type of procedure, use either sterile water or sterile gel on the sheath cover.

NOTE: Follow your institutions guidelines on post surgery/ intra-operative procedures for probe cleaning and disinfection.

Using protective sheaths



WARNING

Probe sheaths are disposable and must not be reused.



CAUTION

Protective barriers may be required to minimize disease transmission. Probe sheaths are available for use with all clinical situations where infection is a concern.

Always use a legally marketed, sterile probe sheaths for intra-cavitary and intra-operative procedures.

For neurological intra-operative procedures, use of a legally marketed, sterile, pyrogen free probe sheath is **REQUIRED**.



CAUTION

Devices containing latex may cause severe allergic reaction in latex sensitive individuals. Refer to FDA's March 29, 1991 Medical Alert on latex products.



CAUTION

DO NOT use an expired probe sheath. Before using probe sheaths, verify whether the term of validity has expired.



CAUTION

Do not use pre-lubricated condoms as a sheath. In some cases, they may damage the probe. Lubricants in these condoms may not be compatible with probe construction.

Instructions. Custom made sheaths are available for each probe. Each probe sheath kit consists of a flexible sheath used to cover the probe and cable and elastic bands used to secure the sheath.

Sterile probe sheaths are supplied as part of biopsy kits for those probes intended for use in biopsy procedures. In addition to the sheath and elastic bands, there are associated accessories for performing a biopsy procedure which are included in the kit. Refer to the biopsy instructions for the specific probes in the Discussion section of this chapter for further information.



GE Healthcare Resources – Cleanability/Disinfection

GE Healthcare's Efforts to Address COVID-19

<https://www.gehealthcare.com/corporate/COVID-19>



GE Healthcare's Efforts to Address COVID-19

As the world navigates the unprecedented challenge presented by the COVID-19 pandemic, we at GE Healthcare support healthcare providers, partners, communities, and patients around the world in addressing it. We are inspired every day by their acts of courage and compassion and by the commitment of our own employees in supporting them. We are honored to serve alongside the many who are working hard to deliver swift, efficient, and quality care in this time of need.

- For customers: scroll for frequently asked questions and more information.
- For media: [click here](#) to reach our media resources page or contact Amy.Sarosiek@ge.com.
- Read the latest statement from our President & CEO, Kieran Murphy [here](#).

Can't find what you're looking for? [Contact us here](#) or visit this page frequently. We're moving rapidly to build out our COVID-19 resources and deliver information simply and transparently to our customers and partners.

Resources

Cleaning Guidelines

An overview of the various cleaning and disinfecting agents we have tested for compatibility with our device materials and the results of those assessments.

[CLEANING GUIDELINES](#)



Frequently Asked Questions

Answers to common needs and questions related to COVID-19.

[LEARN MORE](#)

List of Compatible Probe Cleaning, Disinfection, Gel Products

Ultrasound Systems:

<https://cleaning.gehealthcare.com/>

Ultrasound Probes:

<https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Frequently Asked Questions by Quality Team (external)

<https://www.gehealthcare.com/corporate/COVID-19-faq>



