



Ultrasound System Transducer Xario-Series

> Part of the COVID-19 Support Package

Guidelines for cleaning, disinfection, and sterilization of transducers

This manual describes the cleaning, disinfection, and sterilization procedures for the ultrasound transducer.

For the operating precautions and procedures for the transducers, refer to the operation manual for each transducer.

Trademarks

This manual may include trademarks or registered trademarks of companies other than Canon Medical Systems.

1. Safety Precautions

1.1 Meaning of Signal Words

In this manual, the signal words **DANGER**, **WARNING**, **CAUTION**, and *NOTICE* are used regarding safety and other important instructions. The signal words and their meanings are defined as follows. Please understand their meanings clearly before reading this manual.

Signal word	Meaning					
∆ DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.					
≜ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.					
∆ CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.					
NOTICE	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.					

1.2 Safety Precautions

Observe the following precautions to ensure the safety of patients as well as operators when performing cleaning, disinfection, or sterilization of the transducer.

MARNING

Never immerse the transducer connector or any other nonwaterproof sections into liquids such as water or cleaning solution. Immersion may cause electric shock.

Refer to the tables and figures in section 3 for the immersible range of each transducer model.

ACAUTION

- 1. Precautions concerning cleaning, disinfection, and sterilization.
 - 1) Observe the following precautions to prevent infection.
 - Wear protective gloves when performing cleaning.*
 - Wear sterile protective gloves when performing disinfection or sterilization.*
 - Wear new protective gloves each time cleaning, disinfection, and sterilization are performed.
 - Clean the transducer before and after examination.
 Disinfect or sterilize the transducer as required.
 - Note that local regulations may require that the transducer be disinfected before sterilization.
 - Sterilize the transducer and biopsy adaptor before and after an ultrasound-guided biopsy procedure is performed.
 Failure to do so may result in the transducer and biopsy adaptor becoming sources of infection.
 - Refer to the FDA's March 29, 1991 Medical Alert on Latex Products.

ACAUTION

- 2) After cleaning, rinse the transducer thoroughly with purified water to remove all chemical residues. After disinfection, rinse the transducer thoroughly with sterile or deionized water to remove all chemical residues. Chemical residues on the transducer may be harmful to the human body.
- 3) After chemical cleaning or chemical disinfection, thoroughly dry the transducer surface.
- 4) After gas sterilization, degas the transducer. Gas residues on the transducer may be harmful to the human body.
- 5) The efficacy of the cleaning solutions, disinfectants, and sterilizing gases is not guaranteed by Canon Medical Systems. Contact the manufacturers for information on the activity of the products.
- 6) To ensure the prevention of infection, confirm the effectiveness of each chemical for cleaning, disinfection, or sterilization based on the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the relevant manufacturer.
- 7) Do not clean, disinfect, or sterilize the transducer using chemicals or methods other than those specified in this guide. If chemicals or methods other than those specified in this guide are used, the transducer may not be properly cleaned, disinfected, or sterilized or may be damaged.
- 8) Observe the following precautions to prevent transducer malfunction.
 - Only soft materials such as soft cloth or soft gauze should be used when removing ultrasound gel from the transducer or wiping water or disinfectant from the transducer surface after cleaning or disinfection. Use of hard or abrasive cloth or gauze may damage the transducer.
 - The transducer must not be immersed in a chemical solution for more than three hours.
 - Do not permit the transducer to become overheated (more than 60°C (140°F)) during cleaning, disinfection, and sterilization.
 - The cleaning, disinfection, or sterilization conditions, such as the temperature and pressure, differ depending on the product. In addition, some products cannot be subjected to disinfection or sterilization procedures. Confirm the detailed conditions by referring to the tables and figures in section 3.

1.3 Chemical Hazard (for USA only)

Observe the following instruction in order to protect patients and operators from inflammation or poisoning by chemical substances.

≜WARNING:

This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer, and phthalates, which are known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.p65warnings.ca.gov.

1.4 Precautions Concerning Restriction of Sale or Use (for USA only)

United States law restricts this device to sale or use by, or on the order of a physician.

2. Cleaning, Disinfection, Sterilization

This section describes the methods for cleaning, disinfection, and sterilization.

2.1 Cleaning

- <end continuous co
- * The single-use sponge must not include any abrasive parts or contain any abrasive cleanser.
- (1) Wear protective gloves to prevent infection.

 Wear new protective gloves each time cleaning is performed.
- (2) If an accessory that can be disassembled (e.g., biopsy adaptor) is provided, disassemble it. For details concerning such parts, refer to the operation manual for the transducer.
- (3) Wash off all organic materials (such as blood or other bodily fluids) from the transducer under purified water. A single-use sponge can be used for washing. Do not use a brush, because it may damage the transducer.
- (4) In accordance with the tables and figures in section 3, immerse the transducer in a cleaning solution or wipe the transducer using wipes to dissolve or remove all remaining organic materials. Use a single-use sponge if necessary. If dried organic materials are present on the transducer, immerse it in the cleaning solution for a prolonged period.
- (5) Remove all residual organic materials and cleaning solution from the transducer by rinsing it under purified water. Confirm that all organic materials and cleaning solution have been completely removed. Do not reuse the purified water.
- (6) Dry the surface of the transducer using clean soft cloth or gauze. Do not use heat to dry the transducer. Handle the cleaning solution or wipes as described in the documentation provided by the relevant manufacturer. To maintain the effectiveness of the cleaning solution or wipes, ensure that the concentration, temperature, and other conditions specified in the documentation provided by the manufacturer are met. To confirm the effectiveness of the cleaning solution or wipes, use the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the manufacturer.
- (7) Confirm that the transducer shows no signs of damage, deformation, or peeling.

2.2 Disinfection

Before disinfection, the transducer must be cleaned.

Note that local regulations may require that the transducer be disinfected before sterilization.

- <to be used: Sterile protective gloves, disinfectant, sterile water or deionized water, sterile soft cloth or gauze>>
- (1) Wear sterile protective gloves to prevent infection.

 Wear new sterile protective gloves each time disinfection is performed.
- (2) Disinfect the transducer using the chemicals listed in section 3 "List of Chemicals".
- (3) Rinse the transducer thoroughly with sterile or deionized water, as described in the documentation provided by the manufacturer, in order to remove all residual disinfectant. (Rinsing is not necessary when gas disinfection is performed using Trophon EPR or Trophon 2.) Do not reuse the sterile or deionized water.
- (4) Dry the surface of the transducer using sterile soft cloth or gauze. Do not use heat to dry the transducer. Handle the disinfectant as described in the documentation provided by the relevant manufacturer.
 - To maintain the effectiveness of the disinfectant, ensure that the concentration, temperature, and other conditions specified in the documentation provided by the manufacturer are met. To confirm the effectiveness of the disinfectant, use the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the manufacturer.
- (5) Confirm that the transducer shows no signs of damage, deformation, or peeling.

2.3 Sterilization

Before sterilization, the transducer must be cleaned.

Note that local regulations may require that the transducer be disinfected before sterilization.

- <<<lt>sterile protective gloves, sterilant>>
- * Some types of transducers cannot be sterilized or the sterilization conditions may differ.
- (1) Wear sterile protective gloves to prevent infection.

 Wear new sterile protective gloves each time sterilization is performed.
- (2) Sterilize the transducer using the chemicals listed in section 3 "List of Chemicals".
 - * Place the transducer in a sterilization packing case and then place it in the sterilizer.
- (3) After gas sterilization, perform aeration to remove all gas residues on the transducer surface.
- (4) Confirm that the transducer shows no signs of damage, deformation, or peeling.

3. List of Chemicals

This section lists the chemicals used when cleaning, disinfecting, or sterilizing the transducer. Refer to the lists for the available chemicals.

In addition, refer to the manuals for the chemicals for the handling details.

NOTE

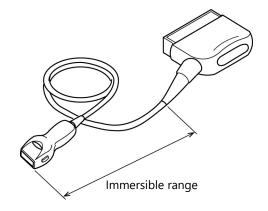
- 1. When multiple model names included in the List of Chemicals are referred to, note that they are abbreviated. For example, "PSU-25BT and PSU-30BT" is abbreviated as "PSU-25BT/30BT".
- 2. For the transducers supported by each diagnostic ultrasound system, refer to the operation manual supplied with the diagnostic ultrasound system.

Country of origin : Any : Any country	Chemical name/type	Enzyme					
FRA : France DEU : Germany	Trade name	CIDEZYME [®]	3M™ Rapid Multi-Enzyme cleaner	ANIOSYME DD1 *	neodisher [®] mediclean *		
GBR : United Kingdom USA : United States JPN : Japan	Manufacturer	181	3M Company	Laboratories ANIOS	DR. WEIGERT GmbH & Co. KG		
'	Country of origin	Any	Any	FRA	DEU		
AUS : Australia	Concentration (Dilution ratio)	0.8% (125)	1% (100)	0.5% (200)	1% (100)		
	Time	1 min.	10 min.	5 min.	10 min.		
	Temperature		emperature	Room ten	•		
	Humidity	Normal humidity		Normal humidity			
Model name	Pressure	Normal pressure		Normal pressure			
PSU-25BT/30BT/70BT PVU-375BT/382BT	Immersible range Type A	ОК	ОК	OK	ОК		
PSU-50BT PVU-712BT	Type A	ОК	OK	OK	ОК		
PVU-674MV	Type A	OK	_	-	_		
PLU-704BT	Type A	OK	OK	OK	OK		
PVU-745BTV	Type A	OK	OK	OK	OK		
PVU-745BTF/745BTH/770ST PVL-715RS	Type A	OK	OK	OK	ОК		
PVU-674BT/781VT/781VTE PLU-1005BT	Type A	ОК	ОК	OK	ОК		
PLU-1204BT	Type A	OK	OK	OK	OK		
PVU-681MVL	Type A	OK	OK	OK	OK		
PVU-350BTP	Type A	OK	OK	OK	OK		
PLU-308BTP	Type A	OK	OK	OK	OK		
PLU-1202BT	Type A	OK	OK	OK	OK		
PLU-705BTF/705BTH	Type A	OK	OK	OK	OK		

Chemical

OK: Use of the chemical is permitted.

• Type A (PSU-25BT etc.)



Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

^{*:} Not for use in the USA.

					T		
		Enzyme	Isopropyl alcohol/ Ethylene Glycol Monobutyl Ether	Alkyl dimethyl benzyl ammonium chloride/2-ethanol/ Alkyl polysaccharide/ Ethylenediamine tetraacetic acid			
Tristel Pre-Clean Wipes *	MetriZyme [®]	Klenzyme [®]	Instru-Zyme [®] Gel	Endozime [®] Xtreme Power*	CaviWipes™	Intercept [®] Wipes	
Tristel Solutions Limited	Metrex Research, Inc.	STERIS Corporation	Summit Medical	RUHOF Corporation	Metrex Research, Inc.	MEDIVATORS Inc.	
GBR	USA	USA	USA	USA	USA	USA	
Working solution	0.77% (130)	0.8% (125)	Working solution	0.2% (500)	Working solution	Working solution	
Wiping only	5 min.	5 min.	Wiping only	2 min.		Wiping only	
	mperature	R	oom temperatu	re	R	om temperature	
Normal	Normal humidity		Normal humidity			Normal humidity	
Normal	Normal pressure		Normal pressure			Normal pressure	
OK	ОК	ОК	ОК	ОК	OK	OK	
ОК	ОК	ОК	ОК	ОК	OK	OK	
_	_	_	-	OK	OK	OK	
OK	OK	OK	OK	OK	OK	OK	
OK	OK	OK	OK	OK	OK	OK	
ОК	ОК	ОК	ОК	OK	ОК	OK	
ОК	ОК	ОК	ОК	ОК	OK	OK	
OK	OK	OK	OK	OK	OK	OK	
OK	OK	OK	OK	OK	OK	OK	
-	OK	-	OK	OK	-	-	
OK	OK	OK	OK	OK	OK	OK	
OK	OK	OK	-	OK	OK	-	
OK	OK	OK	_	OK	OK	-	

Low/Middle-Level Disinfection -1 (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin :
Any: Any country
FRA: France
DEU : Germany
GBR : United Kingdom
USA : United States
JPN : Japan
AUS : Australia

Model name

PSU-25BT/30BT/70BT PVU-375BT/382BT

PSU-50BT PVU-712BT PVU-674MV PLU-704BT PVU-745BTV PLU-705BTF/705BTH PVU-745BTF/745BTH PVU-770ST, PVL-715RS PVU-674BT, PLU-1005BT PVU-781VT/781VTE PLU-1204BT PVU-681MVL PVU-350BTP PLU-308BTP PLU-1202BT

Chemical name/type	Didecyl dimethyl ammonium chlorides/ Quaternary ammonium compounds	Didecyl dimethyl ammonium chlorides
Trade name	CLEANISEPT [®] WIPES	WIP'ANIOS Excel
Manufacturer	Dr. Schumacher GmbH	Laboratories ANIOS
Country of origin	DEU	FRA
Concentration (Dilution ratio)	Working solution	Working solution
Time	Wiping only	Wiping only
Temperature	Room temperature	
Humidity Normal humidity		Normal humidity
Pressure	Normal pressure	Normal pressure
Immersible range Type A	ОК	OK
Type A	OK	OK
Type A	-	_
Type A	OK	OK
Туре А	OK*1	OK
Type A	ΟΚ ^{*1}	OK
Type A	-	OK
Type A	OK	OK
Type A	-	OK
Type A	OK	OK
Type A	-	OK
Type A	-	-
Type A OK		OK

OK

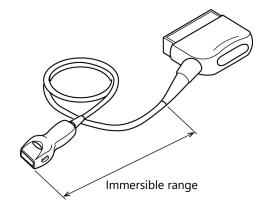
OK

OK: Use of the chemical is permitted.

Туре А

*1: Only if the transducer is not used internally.

• Type A (PSU-25BT etc.)



Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

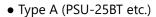
Glyoxal/Glutaral/ Didecyl dimethyl
ammonium chlorides
Lysoformin [®] 3000
Lysoform
Disinfection Ltd.
DEU
2% (50)
15 min.
Room temperature
Normal humidity
Normal pressure
ОК
ОК
_
OK
ОК
-
_
OK
OK
-
OK
OK
OK
OK

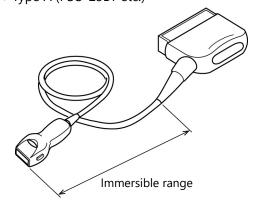
Low/Middle-Level Disinfection -2 (High-level disinfection is also required in the USA.)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin : Any : Any country FRA : France	Chemical name/type	Ethanol	Isopropyl alcohol	Isopropyl alcohol/ Ethylene glycol monobutyl ether	Sodium hypochlorite
DEU : Germany GBR : United Kingdom USA : United States JPN : Japan	Trade name	Ethanol	Isopropyl alcohol	CaviWipes™	Dispatch® Hospital Cleaner Disinfectant Towels with Bleach
AUS : Australia	Manufacturer	Any manufacturer	Any manufacturer	Metrex Research, Inc.	The Clorox Company
	Country of origin	Any	Any	USA	USA
	Concentration (Dilution ratio)	80% (original solution)	70% (original solution)	Working solution	0.65% (working solution)
	Time	Wiping only	Wiping only	Wiping only	Wiping only
	Temperature	Room temperature	Room temperature	Room temperature	Room temperature
	Humidity	Normal humidity	Normal humidity	Normal humidity	Normal humidity
Model name	Pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure
PSU-25BT/30BT/70BT PVU-375BT/382BT	Immersible range Type A	OK	ОК	OK	OK
PSU-50BT PVU-712BT	Type A	OK	ОК	ОК	OK
PVU-674MV	Type A	OK	OK	OK	OK
PLU-704BT	Type A	OK	OK	OK	OK
PVU-745BTV	Type A	OK	OK	OK	OK
PVU-745BTF/745BTH/770ST PVL-715RS	Type A	OK	OK	ОК	ОК
PVU-674BT/781VT/781VTE PLU-1005BT	Type A	ОК	ОК	ОК	ОК
PLU-1204BT	Type A	OK	OK	OK	OK
PVU-681MVL	Type A	OK	OK	OK	OK
PVU-350BTP	Type A	OK	OK	-	-
PLU-308BTP	Type A	OK	OK	OK	OK
PLU-1202BT	Type A	OK	OK	OK	OK
PLU-705BTF/705BTH	Type A	OK	OK	OK	_

OK: Use of the chemical is permitted. ____: Use of the chemical is not permitted.





Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

Quaternary ammonium chlorides		Quaternary ammonium chlorides/ Isopropyl alcohol		Decyldimethyloctylammonium chloride/ Dimethyldioctylammonium chloride/ Didecyldimethylammonium chloride/ Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Hydrogen peroxide
Protex™ Ultra Disinfectant Wipes	Sani-Cloth [®] AF3, Sani-Cloth [®] AF	Sani-Cloth [®] Plus	Super Sani-Cloth [®]	SONO Ultrasound Wipes	Oxivir 1 wipes
Parker Laboratories, Inc.	Professional Disposables International, Inc.	Professional Internation		Advanced Ultrasound Solutions Inc.	Diversey, Inc.
USA	USA	US	A	USA	USA
0.232% (working solution)	0.28% (working solution)	0.25% / 14.85% (working solution)	0.5% / 55% (working solution)	Working solution	0.5% (working solution)
Wiping only	Wiping only	Wiping only	Wiping only	Wiping only	Wiping only
Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature
Normal humidity	Normal humidity	Normal humidity	Normal humidity	Normal humidity	Normal humidity
Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure
OK	OK	ОК	ОК	OK	ОК
OK	OK	ОК	ОК	ОК	ОК
OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	-	_
OK	OK	ОК	OK	ОК	ОК
OK	OK	ОК	ОК	ОК	ОК
OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK
_	_	-	_	-	_
OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK
_	OK	OK	OK	_	_

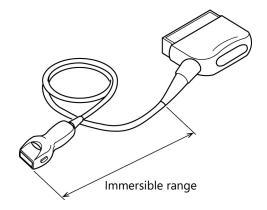
High-Level Disinfection -1 (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

			T				
	Country of origin:	Chemical name/type	Hydrogen peroxide, Peracetic acid		Chlorine dioxide		
	Any : Any country FRA : France	Trade name	PeraSafe™ ^{*1}	Tristel Fuse for Instruments	Tristel Sporicidal Wipes/ Tristel Rinse Wipes	Tristel Duo ULT	
	DEU : Germany GBR : United Kingdom	Manufacturer	DuPont	Tris	stel Solutions Limited	d	
	USA : United States	Country of origin	Any		GBR		
	JPN: Japan AUS: Australia	Concentration (Dilution ratio)	1.62% (61.7)	0.012% (1 sachet in 5 liters of water)	Working so	olution	
		Time	10 min.	5 min.	Wiping	only	
		Temperature	Room temperature	I	Room temperature		
		Humidity	Normal humidity	Normal humidity			
	Model name	Pressure	Normal pressure	Normal pressure			
	5BT/30BT/70BT 375BT/382BT	Immersible range Type A	ОК	ОК	ОК	ОК	
PSU-5		Type A	OK	OK	OK	OK	
PVU-6	574MV	Type A	OK	_	_	_	
PLU-7	04BT	Type A	OK	OK	OK	OK	
PVU-7	745BTV	Type A	OK	OK	OK	OK	
PVU-7	745BTF/745BTH/770ST 15RS	Type A	ОК	ОК	ОК	OK	
	74BT/781VT/781VTE 005BT	Туре А	ОК	ОК	ОК	ОК	
PLU-1	PLU-1204BT Type A		OK	OK	OK	OK	
PVU-6	PVU-681MVL Type A		OK	OK	OK	OK	
PVU-3	PVU-350BTP Typ		OK	OK	_	_	
PLU-3	08BTP	Type A	OK	OK	OK	OK	
PLU-1	202BT	Type A	OK	OK	OK	OK	
PLU-705BTF/705BTH		Type A	OK	OK	OK	OK	

OK: Use of the chemical is permitted. _____: Use of the chemical is not permitted.

• Type A (PSU-25BT etc.)



Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

Succindialdehyde		dialdehyde Peracetic acid		Ortho- phthalaldehyde	Peracetic acid, Hydrogen peroxide, Acetic acid		xide,
gigasept [®]	gigasept [®] FF (new)		Anioxyde 1000	Opal™	gigasept [®] PAA concentrate		mikrozid [®] PAA wipes
Schülke & N	Mayr GmbH	181	Laboratories ANIOS	Whiteley Medical	Sc	hülke & Mayr	GmbH
DI	EU	GBR	FRA	AUS		DEU	
(2	,	0.35% (working solution)	0.15% (working solution)	0.57% (Working solution)	2% (a double-chambered bottle into 5 liters of water)		Working solution
15 min.*2	60 min.*3	5 min.	30 min.	6 min.	5 min.*4	15 min.* ³	Wiping only
Room ter	nperature	Room ter	mperature	Room temperature		Room tempera	ture
Normal	humidity	Normal humidity		Normal humidity	Normal humidity		dity
Normal	pressure	Normal pressure		Normal pressure	Normal pressure		ure
ОК	OK	ОК	ОК	ОК	OK	ОК	ОК
OK	OK	ОК	ОК	ОК	OK	ОК	ОК
_	_	_	-	OK	_	_	_
OK	OK	_	OK	OK	OK	OK	OK
OK	OK	_	OK	OK	OK	1	OK
OK	OK	-	OK	ОК	ОК	OK	ОК
OK	OK	_	OK	ОК	OK	OK	ОК
OK	OK	_	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK OK		OK
OK	-	_	OK	OK	OK	-	-
OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK
_	-	-	OK	OK	OK	OK	OK

^{*1:} PeraSafe™ may be classified as a sterilizing agent or as a high-level disinfectant depending on the local regulations.

^{*2:} For bacteria and fungi

^{*3:} For virucidal

^{*4:} For mycobactericidal

High-Level Disinfection -2

Note that local regulations may require that the transducer be disinfected before sterilization.

Chemical

name/type

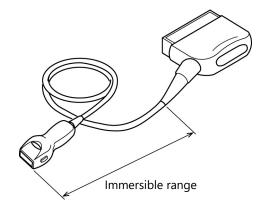
Country of origin:

	Any: Any country FRA: France DEU: Germany		Trade name	CIDEX®	CIDEX PLUS [®] 28 day solution	MetriCide™	MetriCide™ 28	MetriCide™ Plus 30
	GBR : United Kingdom		Manufacturer	J&J	1&1	Met	rex Research,	Inc.
	USA : United States	C	ountry of origin		Any		USA	
	JPN : Japan AUS : Australia		Concentration (Dilution ratio)	2.4% (working solution)	3.4% (working solution)	2.6% (working solution)	2.5% (working solution)	3.4% (working solution)
l			Time	45 min.	20 min.	45 min.	90 min.	90 min.
			Temperature	Room	temperature		25°C (77°F)	
			Humidity	Norm	al humidity	N	ormal humidit	у
	Model name		Pressure	Norm	al pressure	N	ormal pressur	е
	:5BT/30BT/70BT	Ir	nmersible range	ОК		OK		
	375BT/382BT		Туре А					
PSU-5 PVU-7			Type A	OK OK		OK	ОК	
PVU-6	574MV		Туре А	OK -		_	_	
PLU-7	04BT		Type A		OK		OK	
	745BTV 05BTF/705BTH		Туре А		OK	OK		
PVU-7	745BTF/745BTH/770ST		Type A		OK		OK	
PVL-7			Type A		OK	OK		
PVU-674BT/781VT/781VTE PLU-1005BT			Туре А		OK	ОК		
PLU-1204BT			Туре А		OK		OK	
PVU-681MVL			Type A		OK		OK	
	350BTP		Туре А		OK		OK	
PLU-3			Type A		OK	OK		
PLU-1	202BT		Type A		OK		OK	

Glutaraldehyde

- : Use of the chemical is not permitted. OK: Use of the chemical is permitted.

• Type A (PSU-25BT etc.)



Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

^{*:} For transducers with a thin cable, use a Trophon® EPR with a serial number beginning with 24100 or higher or a transducer cable clamp "T-Clamp". Please contact your Trophon® EPR representative for further information.

Glutaralde	ehyde	Ortho- phthalaldehyde				
WAVICIDE®-01	Sporicidin [®]	CIDEX [®] OPA	Trophon [®] EPR Trophon [®] 2		SPOROX [®] II	Revital-Ox™ Resert [®] High Level Disinfectant
Medical Chemical Corporation	Contec Inc.	1&1	Nanosoni	cs Limited	Sultan Healthcare	STERIS Corporation
USA	USA	Any	Al	JS	USA	USA
2.5% (working solution)	1.12% (working solution)	0.55% (working solution)	Use the disinfed specifically de disinfection	signed for the	7.5% (working solution)	2% (working solution)
45 min.	20 min.	12 min.	There are no disi	infection related	30 min.	8 min.
Room temp		Room temperature	parameters (Room temperature	Room temperature
Normal hu	•	Normal humidity	humidity, pressure, or time) to be set by the operator.		Normal humidity	Normal humidity
Normal pre	essure	Normal pressure			Normal pressure	Normal pressure
ОК	OK	ОК	OK*	OK	OK	ОК
OK	ОК	ОК	OK*	OK	OK	OK
_	_	OK	OK	OK	_	OK
OK	OK	OK	OK*	OK	OK	OK
OK	ОК	ОК	OK*	OK	OK	_
OK	OK	OK	OK*	OK	OK	OK
OK	OK	OK	_	-	OK	OK
OK	OK	ОК	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK
OK	-	OK	OK	OK	OK	OK
OK	OK	OK	_	_	_	_
OK	OK	OK	-	-	OK	OK
OK	OK	OK	OK	OK	OK	OK

Sterilization

Note that local regulations may require that the transducer be disinfected before sterilization.

	Chemical name/type	Ethylene oxide gas *1		Hydrogen peroxide plasma *2	
Country of origin : Any : Any country	Trade name	Ethylene oxide gas		STERRAD [®] 50/100S/200/NX	STERRAD [®] 100NX
FRA : France	Manufacturer	Any manufacturer		J&J	
DEU : Germany GBR : United Kingdom USA : United States JPN : Japan AUS : Australia	Country of origin	Any		Any	
	Concentration (Dilution ratio)	10% 20% ^{*5} Use STERRAD system cassettes specifically designed for the sterilizer.			
	Time	Exposure time: 7 hours Aeration time: 12 hours	Exposure time: 3.5 hours Aeration time: 12 hours	[STANDARD Cycle] for STERRAD NX. There are no sterilization	Select [EXPRESS Cycle]. There are no sterilization related parameters (temperature, humidity, pressure, or
	Temperature	50°C (122°F)	60°C (140°F)		
	Humidity	50%		(temperature, humidity, pressure, or time) to be	time) to be set by the operator.
Model name	Pressure	980 hPa [gauge]		set by the operator.	орегитот.
PSU-25BT/30BT/70BT PVU-375BT/382BT		-	-	ОК	OK* ^{7, *8}
PSU-50BT PVU-712BT		-	-	-	-
PVU-674MV		_		_	-
PLU-704BT		-	-	OK	OK*7, *8
PVU-745BTV		_	OK ^{*6}	OK	OK*7, *8
PVU-745BTF/745BTH		-	OK ^{*6}	OK	OK*7, *8
PVL-715RS			I	OK	_
PVU-770ST		-	-	OK	OK*7, *8
PVU-674BT PLU-1005BT		-	-	OK	OK* ^{7, *8}
PLU-1204BT		-	-	OK	OK*7, *8
PVU-681MVL				_	_
PVU-350BTP*3		OK	OK ^{*6}	OK	OK*7, *8
PLU-308BTP*3		OK	OK*6	OK	OK*7, *8
PVU-781VT/781VTE		-	OK*6	OK	OK*7, *8

OK: Use of the chemical is permitted. — : Use of the chemical is not permitted.

 OK^{*6}

OK*6

OK OK OK*7, *8

OK*7, *8

PLU-1202BT

PLU-705BTF/705BTH

^{*1:} After sterilization, thoroughly degas the transducer to remove all gas residues on the transducer.

^{*2:} Note that the label on the transducer may fade. This is not an abnormality.

^{*3:} The biopsy adaptors, needle stopper, and depth gauge supplied with the transducer can be also sterilized by high-pressure steam sterilization (temperature: 134°C (273.2°F), holding time: 18 min).

^{*4:} For STERRAD 100S/200 for the USA, no Cycle option is provided.

^{*5:} Not for use in the USA.

^{*6:} These items have been confirmed to withstand 120 cycles of sterilization using the method described in this manual.

^{*7:} One transducer can be sterilized per sterilization cycle. Do not perform sterilization for more than one item at a

^{*8:} There may be sticky areas on the cable, however, this is not a fault. If there are sticky areas, wipe them with a soft cloth or gauze moistened with ethanol.

4. Other Information

• For Europe

CANON MEDICAL SYSTEMS EUROPE B.V.

EC REP

Zilverstraat 1, 2718 RP Zoetermeer, The Netherlands

https://eu.medical.canon

For other countries, please contact your local distributor.

• Legal manufacturer



Canon Medical Systems Corporation 1385, Shimoishigami, Otawara-shi, Tochigi 324-8550, Japan