

LUMICARE®

Cutting edge UVC - LED technology for
High-Level Ultrasound Probe Disinfection



Technology that lights a new tomorrow

Lumicare is on a mission to deliver High-Level Ultrasound Disinfection (HLD), more effectively and safer than ever before.

Our low-temperature, chemical-free disinfection system for ultrasound probes uses cutting edge LED technology to control UVC dose, temperature, wavelength and distribution, achieving optimal germicidal efficacy that's better for clinicians, better for patients and better for the world.

Our revolutionary technology isn't just changing the game, it's inventing a new one. The Lumicare standard is built from experience, by clinicians for clinicians. We know the challenges and frustrations of HLD today, that's why we've invented a better tomorrow.

The formerly time-consuming, complicated, expensive processes of the past that pose risks to clinicians and patients are now obsolete. Replaced by one automated system that delivers HLD through UVC LED photonic irradiation, a process that's fast, effective and safe.

An ergonomic, compact design to suit ultrasound rooms and healthcare settings has been intuitively developed for clinicians, to refine and streamline processes, remove the use of dangerous chemicals and increase results, speed and control – all whilst protecting you, your patients and your equipment for the long-term.

Less time
Less risk
Greater effectiveness

This is the new standard of High-Level Ultrasound Disinfection.



ONE

Care

is our destination



Lumicare challenges the notion of care.

Our technology delivers a long-awaited, sustainable solution. Achieving optimal germicidal efficacy through safe technology that disinfects ultrasound probes, protects patients, protects clinicians, and is better for the environment.



The Environment

Lumicare avoids the use of harsh chemicals, ongoing consumables, single use plastics and regularly replaced parts, reducing our environmental impact. We understand that sustainable design and a responsible approach are important to you, your patients and our collective futures - Lumicare delivers actionable progress.



The Patient

The highest possible standards of care for patients is our ultimate goal. Our revolutionary technology delivers HLD with greater control and efficacy. We're championing holistic impact that improves every touchpoint. We're about reducing risk and improving experiences for patients, and doing it in a way that drives positive, universal change across our industry.



The Clinicians

Low Temperature Photonic Disinfection (LTD) protects our community of sonographers and clinicians, removing the risk of serious burns. Our ergonomic and futuristic design is fast, user-friendly and intuitive, refining your HLD processes, accelerating workflow and reducing human error.

Innovation

One, compact, automated system delivers a transformational solution

Our industry has long endured HLD processes that are unsafe, complicated and short-sighted – processes that take us more time than necessary and use chemicals that aren't good for us, our equipment, or the world. Meanwhile, Healthcare Associated Infections (HAIs), antibiotic-resistant superbugs and subsequently Coronaviruses are a current and growing threat to the global community.

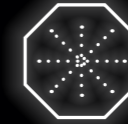
Lumicare has set out to deliver a better option to the healthcare industry. A system that reduces risk in a way that's better for clinicians, safer for the environment and less resource intensive. Technological innovation inspired by lived experience, developed through and for the industry, and approved to stringent Global standards.



OptiWave™

Optimised wavelength guarantees results

Through the use of our high-powered LED semiconductors, OptiWave™ technology ensures the optimum UVC wavelength for germicidal efficacy. OptiWave™ delivers wavelengths of 265~275nm, producing proven results through reliable control.



UVClear™

Conscious design controls dose and distribution

A uniquely designed disinfection chamber controls LED distribution and uniform irradiation and ensures a direct line-of-sight to the ultrasound probe and handle, maximizing intensity. Direct Light Motion ensures light travels directly from the LED semiconductor to the probe whilst real-time photonic dose monitoring ensures each cycle receives the required UVC dose to achieve High-Level Disinfection.



CoolTouch™

Protects you and your equipment for the long-term

Our CoolTouch™ Technology ensures the Lumicare system operates at lower temperatures than traditional methods. Heat is dissipated to the exterior of the disinfection chamber whilst the interior remains cool. This Low Temperature Photonic Disinfection (LTD) reduces the likelihood of thermal burns and helps prolong the life of your ultrasound probes. CoolTouch™ means a safer working environment for you and your colleagues.

Performance

that drives the industry forward

Lumicare has set out to change our industry. To develop technology that drives the health economy through better standards of care, more efficiently and more effectively. But better care can only be delivered when standards are raised, which is why Lumicare is designed and rigorously tested in University and Tertiary laboratories in Sydney, Australia to stringent industry standards.

Lumicare was founded by ultrasound industry professionals. Decades of first-hand experience, input and consultation with ultrasound clinicians and sonographers is reflected in the system's design and usability.

Our revolutionary approach to HLD provides a cleaner and safer practice. Reducing the cost burden on the whole ecosystem, combined with relieving time pressures – we are advancing the industry into a more sustainable future.



This system was tailor made for you, to solve today's problems and design a new tomorrow.

• Fast • Intuitive • Reliable • Effective

Reduce wait times and eliminate workplace inefficiencies.

A user-friendly interface that's automated and systematic makes HLD processing easy and uncomplicated, whilst reducing the likelihood of human error.

An Australian company, Lumicare is designed and rigorously tested in University and Tertiary laboratories in Sydney, Australia to stringent industry standards.

The latest UVC LED semiconductor technology enables HLD, whilst helping reduce the likelihood of cross-contamination and Healthcare Associated Infections (HAIs).

• Control • Ergonomic • Safer • Reassurance

Revolutionary UVClear™ technology controls LED distribution, uniform irradiation and real time photonic dose monitoring to ensure each cycle achieves HLD.

A compact, streamlined design has been purposefully tailored for use in ultrasound rooms and healthcare settings.

Patient and clinician safety first, CoolTouch™ enables Low Temperature Photonic Disinfection (LTD) reducing the likelihood of thermal burns and helping to prolong the life of ultrasound probes.

Audit-Trail™ reliably stores, prints and records cycle log information locally on each device.

ONE

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Disinfection records

NO.	Date	User	Probe Name	Probe SN	Tag ID	Dose	Cycle(s)	Result
133	10/01/2022 16:30	Jack	A	UAFI07707T	E7768010E35014E0	100	82	PASS
132	29/11/2021 15:10	Jack	A	UAFI07707T	E7768010E35014E0	100	89	PASS
131	19/11/2021 15:04	Jack	A	UAFI07707T	E7768010E35014E0	100	85	PASS
130	27/07/2021 16:55	Rose	B	UCFIO4436Y	F4D28020C95014E0	100	89	PASS
129	27/07/2021 16:47	Rose	B	UCFIO4436Y	F4D28020C95014E0	100	82	PASS
128	28/01/2021 09:40	KK	B	UCFIO4436Y	F4D28020C95014E0	100	86	PASS

Autotracing

made light and easy

Audit-Trail™ is how you store, print and record cycle information locally on each Lumicare system.

Setting new best practice benchmarks, our Audit-Trail™ feature makes the critical task of recording High-Level Disinfection cycle details effortless and automatic, reducing the burden of record keeping and potential human error. Audit-Trail™ lets you focus on caring for your patients by creating operational efficiencies and streamlining processes through intuitive tracking functionality.

System

Specifications

LUMICARE ONE

Disinfection efficacy	High-Level Disinfection
Audit-Trail™	✓
Power supply	100-240V AC, 50/60Hz
Power consumption	600W
Ergonomics	✓ Bench mountable ✓ Trolley mountable
Dimension	Height: 600mm Width: 360mm Depth: 325mm
Weight	Unpacked: 30kg Packed: 42kg
I/O port	USB Port: Type A x3 Ethernet connector: RJ45 x1
Internal SSD size	128GB



Lumicare systems are transforming High-Level Disinfection, bringing new efficiencies and standards to our industry, changing the way we work and the care we can ultimately provide. Our intuitive range of products has been carefully designed to allow you to tailor to your needs and healthcare setting.

Sustainability

is at the heart of everything we do

Innovation for a better future.

Lumicare is committed to reducing the medical industry's burden on the environment. We designed the Lumicare ONE using state of the art LED UVC technology making it the most sustainable High Level disinfection device for ultrasound probes available today.

Compared to many existing HLD devices and HLD wipes, Lumicare is simply better for the planet. The Lumicare ONE focuses on providing High-level Disinfection sustainably and easily, which is safer for you and safer for the environment.

Better for everyone. Planet included.

Lumicare avoids the use of harsh chemicals, ongoing consumables, single use plastics and regularly replaced parts, reducing our environmental impact. We understand that sustainable design and a responsible approach are important to you, your patients and our collective futures - Lumicare delivers actionable progress.



01 Free of any harmful chemicals

02 Completely free of toxic metals including Mercury

03 No consumables such as plastic bottles

04 No refrigeration for chemical consumables

05 No high volume waste such as disposable wipes

06 No regularly replaced parts such as fluorescent tubes

07 No chemical or water wash as used with soaking methods



Technology that's
Light-years
ahead



lumicare.one

Get in touch.
Let's re-invent tomorrow.

LUMICARE

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