

Disruptive Innovation

High Level Disinfection (HLD) has become the standard for ultrasound probes but currently accepted chemical techniques are often quite cumbersome and consume very important material and time resources.

As Pr Steve Goldstein (NYU) says: “It is obvious that a conundrum exists. High-level Disinfection is important and desirable but currently there is no reasonable solution that well-meaning healthcare providers can adopt. New methodology is clearly needed to fill the gap.”

For this reason, Germitec has created Hypernova Chronos. Ultrasound users can now comply with HLD standards around the world and seamlessly integrate the Chronos into existing workflows. For those clinics that have used a chemical based system before, the Chronos will quickly demonstrate significant savings in time for processing, reduced time for materials

management and a much better utilization of highly skilled staff as they no longer are required to spend time both pre and post processing in ensuring that no toxic chemicals remain on the transducer.

Hypernova Chronos is a disruptive innovation that removes chemicals from the workplace, radically simplifies healthcare work, and frees up highly skilled resources for patient care and improves organization in the provision of ultrasound diagnostics.

Patient safety and workflow are finally reconciled.

INTERNATIONAL RECOGNITION

UV based HLD applied to ultrasound probes has been approved or recommended by the following main authorities:

WFUMB, EFSUMB, ASUM, ESR, Australian TGA, Health Canada, NHS England, NHS Scotland, HSE,...

UV based HLD is the only disinfection proven efficient against HPV both in vitro and ex vivo.

TECHNICAL SPECIFICATIONS

Disinfection Efficacy	HLD
Average cycletime	90s
Dimensions	W: 38cm / D: 43cm / H: 102cm
Weight	36kg
Power Supply & Frequency	120-240 VAC / 50-60Hz
Power	495 Watts

Medical classification	II b (CE)
EMC	EN 61326-1
Electrical Safety	IEC 61010-1 / EN 61010-2-40

Standards : *Bactericidal, fungicidal, mycobactericidal, sporicidal and virucidal following methodology of standards EN 14561 , EN 14562 , EN 14563 and EN 14476 adapted to Hypernova Chronos*
AOAC use-dilution methods : 955.14, 955.15, 955.17, 964.02. ASTM E 1053-97

Germitec is certified ISO 13485



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Hypernova

Chronos

Chemical free and Ultrafast HLD for ultrasound Probes



Chemical free and Ultrafast HLD
for ultrasound Probes

Hypernova Chronos

is the only photonics High Level Disinfection system applicable to external, vaginal and rectal ultrasound probes, and provides unique advantages.



CHEMICAL FREE

Currently used HLD chemicals require specific and costly protection due to their potentially toxic effects upon staff, which may include respiratory and skin reactions. Chronos completely removes this risk to the staff.



FULLY AUTOMATED TRACEABILITY

Thanks to optical sensors, Chronos is the only system to automatically verify disinfection cycle success.



COMPACT & EASY TO USE

Chronos is a single pushbutton process, without postprocessing of transducer. Its size allows it to fit into all examination rooms and operating theaters as a result of its extra slim width.



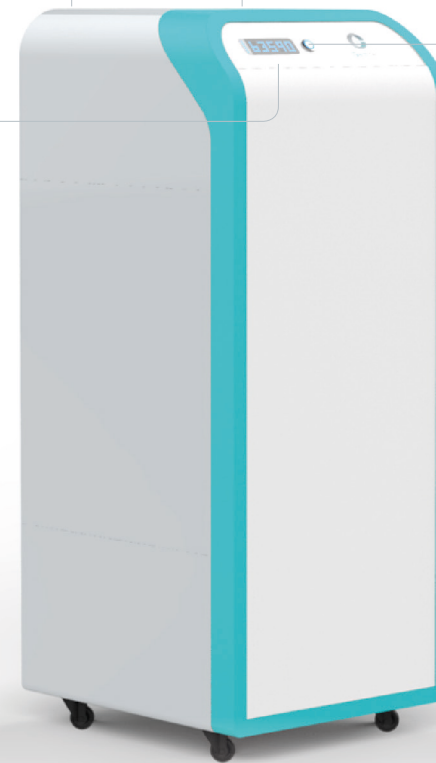
ULTRAFAST

High Level Disinfection
in 90 seconds



COMPATIBILITY

Chronos is approved by the majority of main ultrasound manufacturers, and UV is greatly compatible with polymers.



Users moving from outdated
chemical HLD to Chronos
have seen:

x5

number
of exams

÷3

probe
breakage

+

Employees assigned
to other tasks



* HLD = High Level Disinfection