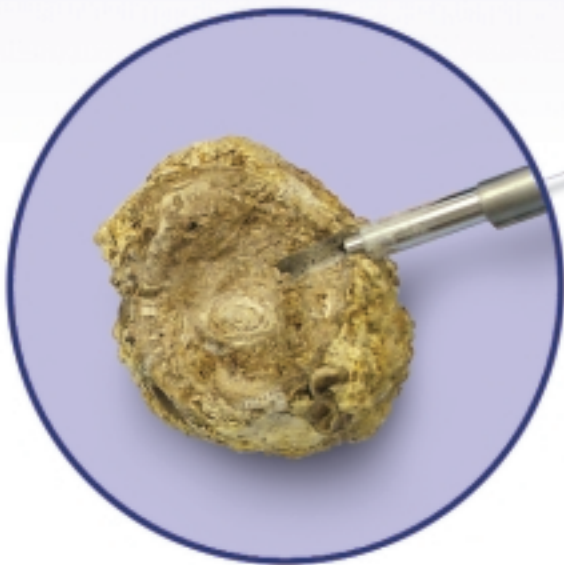




CYBERWAND™

*Dual Probe Ultrasonic
Lithotripter System*



The Cyberwand™ dual probe lithotripter greatly improves stone fragmentation and aspiration on even the largest and hardest stones. Both inner and outer concentric probes are powered simultaneously by the same transducer handpiece and generator.

EASY TO USE

SAFER

FASTER

Cyberwand utilizes unique technology developed in collaboration with NASA.



CYBERSONICS, INC.

CYBERWAND

Dual Probe Ultrasonic Lithotripter System

Features:

EASY TO USE

- Set up is simple. Attach the sterilized probe set and transducer to the generator, attach the suction tube, and switch on the power. The Cyberwand is always in tune and ready to use.
- The ergonomically-designed handpiece is easy to hold and manipulate.
- The Cyberwand is compatible with all major scopes.
- A single generator/transducer powers both concentric probes simultaneously at two distinct frequencies.

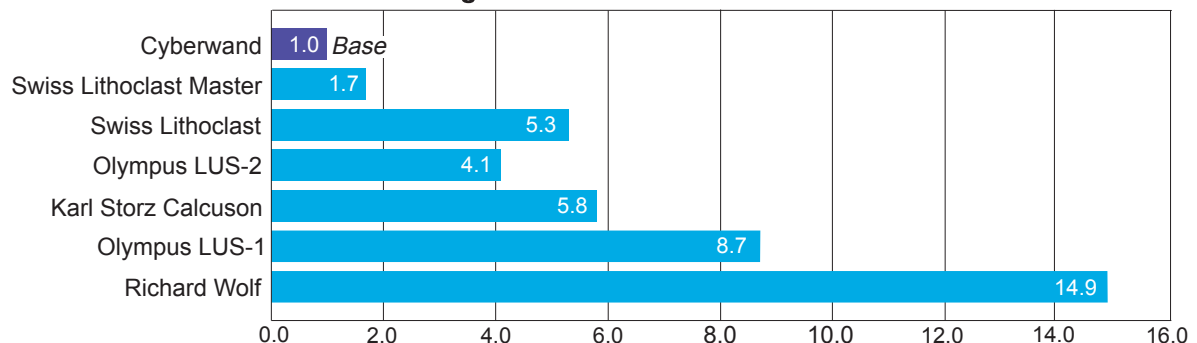
SAFER

- Thermal tissue damage is avoided.
- Impact damage is eliminated. The urothelium remains intact even after being hit repeatedly with impulses at the highest power level.

FASTER

- Integral suction provides the ability to fragment stones and evacuate debris with the same probes to shorten procedure and Operating Room times.

Relative Disintegration Time¹



¹ Samuel C. Kim, M.D., James E. Lingeman, M.D., et al.

COST EFFECTIVE

- The largest and hardest staghorn calculi are quickly disintegrated and suctioned out.
- The patient is left stone free after one procedure. Recovery time is reduced.



Transducer

The transducer handpiece is ergonomically designed, easy to control and autoclavable. Both inner and outer probes are powered by the same transducer hand piece.



Generator

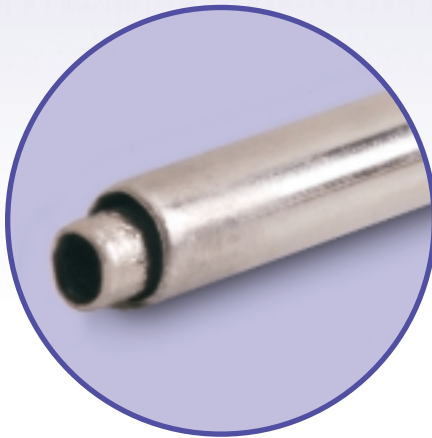
Computer-controlled constant tuning maximizes dual-ultrasonic lithotripsy to dust all stone compositions and all stone burdens quickly and efficiently.



Dual Foot Pedal

Dual foot pedal operation allows for accurate control.

- Higher pulse rate disintegrates large stones to smaller fragments.
- Lower pulse rate pulverizes smaller calculi and debris for faster suctioning from the operative site through the interior probe.

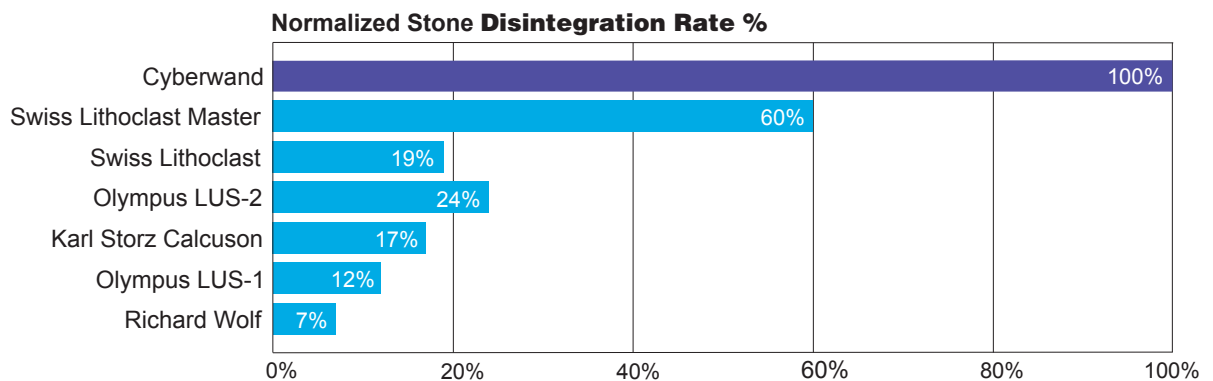


Disposable Probe Set

The inner probe, vibrating at 21,000 Hz, acts as a conventional ultrasonic lithotripter, breaking up the small calculi. The outer probe vibrates at 1,000 Hz and provides the high-energy, shock impact required to initially de-bulk the stone.

The unique, patented probe design helps to keep the entire inner probe lumen open to allow for quick and efficient suctioning of the stone fragments. The concentric design allows the outer probe to glide over the fixed, inner probe. Both inner and outer probes are powered by the generator, and the dual probe action with dual pulse rates allow for fast, complete stone fragmentation and removal.

Initial assessment using our “hands-free” in vitro test system – in which stone penetration time is not affected by operator bias – suggests that the Cyberwand is a very efficient lithotrite. The Cyberwand is a simpler, more ergonomic device than the Lithoclast which combines both an ultrasonic and a pneumatic device. ²



² Samuel C. Kim, M.D., James E. Lingeman, M.D., et al.

SYSTEM SPECIFICATIONS



Generator

Voltage:	100-240VAC \pm 10%
Power Frequency:	50/60 Hz
Dimensions (W x H x D):	31 x 12 x 28 cm
Weight:	6 kg (13.2 lbs.)
Electro-medical:	Class I, Type BF
Driving Frequency:	21 kHz \pm 1 kHz
Maximum Input:	75 Watts rms



Footswitch

Dimensions (W x H x D):	20 x 4 x 15 cm
Weight:	3.2 kg (7 lbs.)
Classification:	IPX8 watertight type (except plug)



Transducer

Diameter:	4 cm
Length:	17 cm
Weight:	300 g
Cable Length:	3 m
Autoclavable:	Yes



Probe Set

Outer Diameter:	3.75 mm
Working Length:	40 cm
Tip Excursion:	80 \pm 20 μ m
Probe (Fixed & Floating):	300 Series Stainless Steel
Free Mass Ring & Spring:	Stainless Steel
Autoclavable:	Yes

C2Z00300 Rev 01

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