

Brochures



Medical Devices



Quality approved to:
ISO 13485:2016
ISO 9001:2015

Manufactured in India by

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About Apex Meditech

Apex Meditech is one of the leading manufacturers of high-quality products for surgeons, physicians, beauticians, sports therapists, vets, and all those concerned with healthcare industry and veterinary medicine. From uroflometry to lithotripters and light sources we apply our understanding of medical requirements to provide low cost solutions at the highest possible standards of safety, performance and reliability. We are pioneers in manufacturing the Intra Corporeal Pneumatic Lithotripsy Systems in India under the brand name **LITHOSPLIT**. With many installations to our credit our products are now trusted amongst Surgeons, Urologists and Physicians all over. Our products are known for efficacy, reliability and cost effectiveness. Our products appear to have the cheapest cure. The benefits of technique, design and careful planning will end patients' pain.

Our territory is the World Village and your response by e-mail or by a phone call places you on our doorstep.

Who are we?

We care deeply about the environment, racial harmony and world peace. What we are doing has to help to make the world a better place. We invent, we travel, we think and enjoy. The end result is equipment that will improve your life. We shall continue to strive for improvement.

Research and Technological Development

Apex has in-house RTD department working on improving the existing products. We continually revise our designs and the range of the products. New product design and development is often a crucial factor in the survival of a company. We innovate and introduce new products. The quality of the RTD facility is approved to ISO 13485:2016 & ISO 9001:2015.

Test Laboratory

We have in-house product test laboratory for testing medical devices according to the IEC60601-1 and IEC60601-1-2 for safety and EMC. The laboratory complies with ISO/IEC17025 Quality Management System.

Quality Management System

Apex Meditech successfully implemented ISO 9001 and ISO 13485 in 2004.

LITHOSPLIT 4.1 DIGITAL

INTRA CORPOREAL PNEUMATIC LITHOTRIPSY



Salient features

- No thermal injury to tissue
- Runs on any of the sources, Oxygen Cylinder, Central Ox. Supply or Compressed Air
- Unique Proportional Frequency Controller
- Easy to assemble and operate
- 13 Frequencies of Impacts, One MONO and twelve Multiple
- Digital Energy Level Adjustment
- Light-weight **LITHOSPLIT *Super*** Hand Piece
- High precision engineered Hand Piece
- Long Lasting Probes
- Demonstration Video CD includes, Live URS, PCNL and Bladder Stone Procedures
- Ultra High Speed Microprocessor
- Unique Foot Switch Fault Detection system
- Pneumatic Foot Switch
- Full Digital System
- Extra Power for super-fast disintegration of even hard stones
- Simple Feather Touch Keys
- Advanced logic for Improved Energy Control
- Portable, Light Weight system
- Free Carrying Case

LITHOSPLIT

Any urinary stone



One system



LITHOSPLIT

Example of High Precision Engineering



LITHOSPLIT Super Hand Piece

High precision LITHOSPLIT Hand Pieces use matched piston and cylinder to give a long and reliable service life. It is very easy to assemble. There are various choices of sterilisation. Its efficacy is proved for disintegrating hard and large stones.



LITHOSPLIT Probes

Probes are available in various sizes to treat stones in bladder, urethra or kidney. 0.8mm and 1.0mm probes are used for URS. 1.5mm is designed for locations in bladder and kidney. A strong 2.0mm probe works very well on large and hard stones in kidney.

Application	Length (End to end) mm	Available diameter mm
URS	630	0.8, 1.0 (standard), 1.5 (on request)
Bladder	445	1.5 (standard), 1.0 (on request)
PCNL	445	1.5, 2.0 (standard)

LITHOSPLIT

Hitech Console

Unique Proportional Frequency Controller

A state-of-the-art unique Proportional Frequency Controller is provided only on LITHOSPLIT 4.1 to control the device easily whilst operating. The operating frequency is increased proportionate to the pressing of a foot switch. A surgeon does not need to change the frequency by pressing keys during the procedure. When selected initially the system starts at a frequency of 1Hz when a foot switch is pressed as usual. Press a foot switch further to increase frequency. The selected frequency is shown as usual on the display. Frequency can be varied in between full available range by pressing foot switch. Release a foot switch as usual to stop machine triggering.

Frequencies of impacts

There are total thirteen choices. Twelve repeat frequency starting 1 per second up to 12 per second. In addition Mono mode is provided to control the trigger precisely.

Energy control

Easy to use Electronic control is provided to set a desired energy level from 1 to 10. This wide range of control allows a Surgeon to disintegrate stone of any hardness and size easily.

Universal operating voltage range

The system operates on any voltage in between 90 and 265V AC, 50/60Hz.

State-of-the-art sealed touch sensing keyboard

Water Resistant,

Strong Surface,

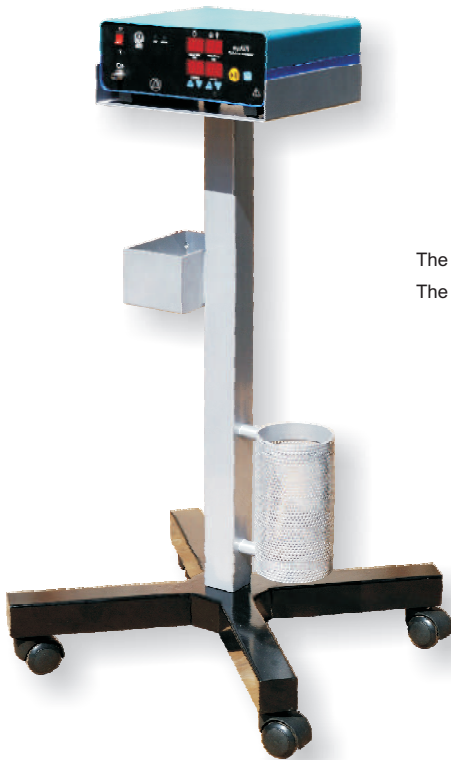
Smart sense technology, Highly reliable, no moving parts, no wear and tear,

Maintenance free.



LITHOSPLIT

Optional Stand



The parts and accessories supplied may not be the same as shown in the pictures
The console shown on the stand is not a part of the stand



Free Carry Case

Optional Bridge



LITHOSPLIT

Technical Specifications

Control Unit

Method	Based on Ultra High Speed Micro Processor
Supply Voltage	91-256V AC @ 50-60 Hz
Power	10 Watts (max)
Fuse	1A, 5X20mm, Fast Blow
EN60601-1 Class	I
EN60601-1 Type	B
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Frequencies of Impacts	Single (Mono) & twelve Multiple, total thirteen choices
Input Pressure max.	4 kG/cm ²
Output Pressure max.	4 kG/cm ² (depends upon Input Pressure)
Energy Level	1 to 10 (programmable through Key on front)
Input gas	Compressed air or Compressed Oxygen
Operating temperature	15° - 35° C
Dimensions	85 mm H X 225 mm W X 230 mm D
Weight	1.9 kG
Degree of protection	IP20

Hand Piece

Input Pressure	Controlled by the Control Unit
Dimensions	220 mm L (without Probe), 18 mm Dia.
Weight	140 gms (without Probe)
Sterilization methods	Ethylene Oxide, Formaldehyde or Gluteraldehyde 2%

The parts and accessories supplied may not be the same as shown in the pictures.
Colour and appearance of the device may not be the same as shown in the pictures.
Images are shown just to understand the system. All parts and accessories may not be supplied.
Specifications are subject to change without prior notice



digiFLOW - 4

Advanced PC Based Uroflometry System

digiFLOW 4 is a compact and Hi-Tech digital Uroflometry system designed for practical, everyday flow studies. The device works with any standard PC. The investigation starts automatically when the patient starts voiding. The flow and volume scales can be adjusted. Patients' data is stored on a hard disk along with the test results and can be retrieved any time for inspection or printing out. The printer provides you with a simple, crisp and clear printout with uroflometry results and patient information. It also prints the clinic / hospital name on top of the sheet. Graphical flow rate charts are supported by alphanumeric data.

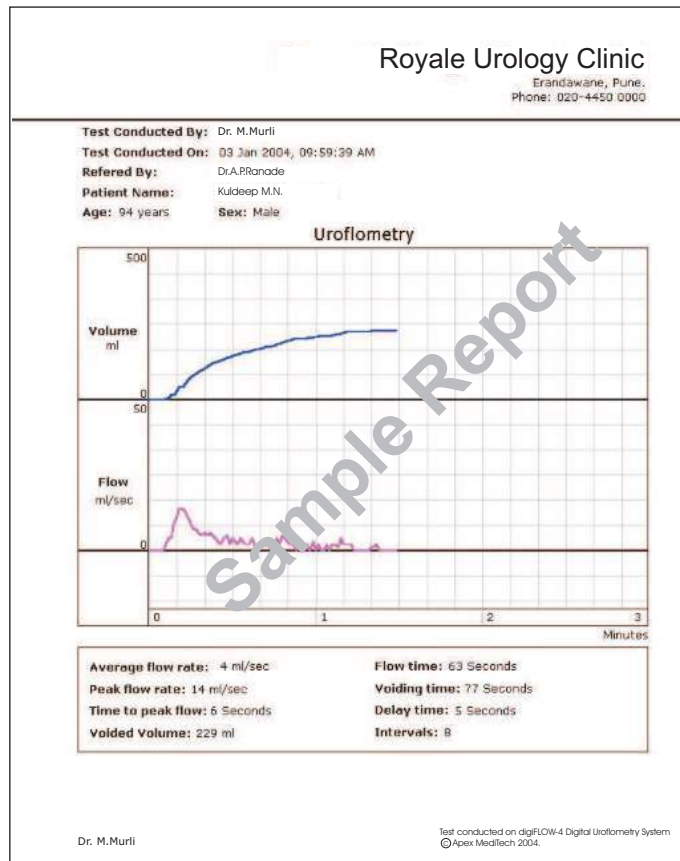
Salient Features

- Fully Automatic
- User Friendly PC based system.
- Uses PC's USB Port for communication with the hardware.
- Prints crisp and clear Colourful or Greyscale printouts on any color deskjet or laser printer installed on the PC
- Real-time coloured display
- Long Test Duration, upto 30 minutes
- Multiple tests can be conducted successively without emptying the jar every time.
- Auto / Manual Start & Auto Stop
- Patient Data with test results is stored in the PC and can be retrieved any time for reference or for reprinting.
- Maintenance free
- Printout contains Graph and tabular text data
- Flow Measurement Range : 0~50 ml/sec.
- Volume Measurement Range : 0~2000 ml.
- Facility to remove artefact manually
- Siroky Nomogram (optional)
- Reusable urine container and funnel
- High precision sensor for flow and volume
- Selectable scaling (Zooming) for both display as well as print
- Micturition chair (option)
- Upgradation to Urodynamics possible
- Packed with full On-line help





digiFLOW - 4



digiFLOW 4

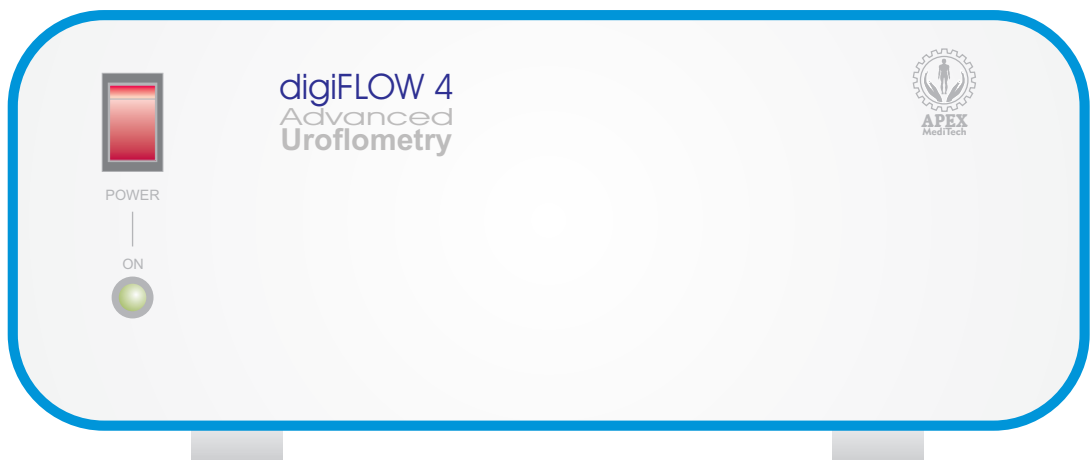


Console :

The state-of-the-art, Ultra High Speed Console of the **digiFLOW 4** system has a high resolution 24 bit Analogue to Digital Converter for superior accuracy operating at a desired speed.

The analogue signal received from the flow sensor are converted into digital and sent to a PC continuously.

The console communicates with a PC through High Speed Standard USB. A PC does not need any special drivers for communicating with the console.



Optional Micturition Seat :

A strong micturition seat is a part of the system. This can be conveniently used for male as well as female patients.



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Specifications are subject to change without prior notice



Technical Specifications

HARDWARE

Control Unit :

Supply Voltage	through USB PC
Power	1 Watt max.
Communication port	USB
Data capture	Flow, Volume voided
Dimensions	225x199x100 mm
Weight	1.0 kg.

Flow Sensor Unit

Type	Precision Load cell
Sensor Capacity max.	3 ltrs.
Jar capacity	2 ltrs. max.
Dimensions	165 Dia X 65 Height mm
Weight	1.3kg.
Sensor to Control unit signal cable length	4.5mtr.

SOFTWARE

Tests

Tests available	Uroflometry.
Data display	Flow, Voided Volume.
Scroll & Zoom	Available, on the fly
Basic test controls	Start, Stop & Pause
Artefact	Auto detection and correction.
Channels	Two

Sample Data Range

Flow	0~100ml/sec.
Volume Voided	0~1000ml.
Test duration	60 min.

Data Management & Reports

Patient database	All relevant personal information is stored along with the test details and the name of the surgeon conducting the test. The same can be retrieved, viewed any time easily and the reports can also be printed from the archival.
Help	An exhaustive detailed help is provided for all features with the programme.
Reports	Crisp and clear Coloured graphical presentation with the relevant necessary alpha-numerical tabular data. Can be viewed on monitor. A4 size page. Graphs showing Flow and voided volume. Colour prints.

COMPUTER REQUIREMENT

Minimum Requirements

Processor	i3 or higher
Memory (RAM)	4GB RAM
Display adaptor & Monitor	Colour, with 1920X1080 pixels resolution
Hard disk	200MB free Hard Disk space
Port	One USB 2.0 port
Printer	Installed Colour Inkjet or Laser printer
Operating System	Windows XP SP3, Windows 7, Windows 8 or Windows 10
Other	CD/DVD ROM Drive



Flow Sensor



digiFLOW - ST2

Advanced Stand-alone Uroflometry

The digiFLOW-ST2 is a compact and Hi-Tech digital Uroflometry system designed for practical, everyday flow studies. An option of the AUTO mode on the front panel to start investigation automatically when the patient starts voiding. The test data is stored in the memory of the Control Unit and can be retrieved any time for printing before the next test starts. The printer provides you with a simple, crisp and clear printout with uroflometry results.



Salient Features

- Fully Automatic or Manual operation
- User Friendly system.
- Uses in-built Thermal Technology Printer.
- The printer requires no maintenance, no ink refilling.
- Prints crisp and clear High Resolution printouts.
- Test Duration up to 6 minutes
- Infinite Standby time in AUTO mode.
- Multiple tests can be conducted successively without emptying the jar every time.
- Auto / Manual Start & Stop
- Patient Data with test results is stored in the memory and can be retrieved any time for printing before starting the next test.
- Maintenance free
- Printout contains Graph and tabular text data
- Flow Measurement Range : 0~75 ml/sec.
- Volume Measurement Range : 0~750 ml.
- Removes artefact automatically
- Reusable urine collection jar
- High precision sensor for flow and volume
- Micturition chair (optional)
- Compact & Portable system.
- Choice of Stand and Chair (both optional)

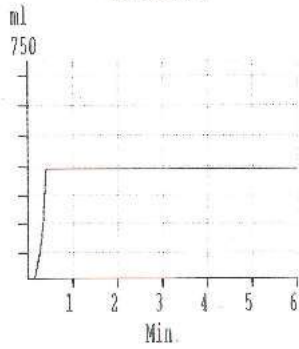
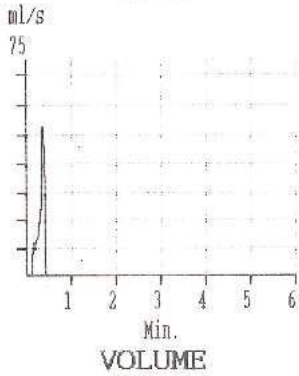
Sample Test Report

UROFLOMETRY

Name:

Date:

FLOW



Volume : 395 ml
Flow Time : 19 sec
QMAX : 53 ml/sec
Time to Peak: 19 sec
Voiding Time: 19 sec
Intervals : 1
Delay : 5 sec
QAVE : 21 ml/s
Scan : Normal

NOTE: Copy the report on a plain paper to preserve.
Report should not be used for medico-legal process.
The report requires clinical correlation for any clinical action.

digiFLOW
UROFLOMETRY SYSTEM V3.00
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Optional Micturition Stand



Precision Flow Sensor





Technical Specifications :

1.	Control Unit	Based on Ultra High Speed Micro Processor
	Supply Voltage	91-256V AC @ 50 Hz
	Power	20 Watts (max)
	Dimensions	290W X 120H X 290D mm (shoes folded)
	Weight	2.2 Kg
	Memory type	Volatile
	Memory capacity	One test (Last conducted test till the unit is powered)
	Flow Range	0~75ml/sec.
	Volume Range	0~750ml
	Test duration	360sec.
	LED Indications	Auto/Start, Voiding, Urine present, Jar full, Printing
	Jar capacity	2000ml, Use only supplied plastic jar.
	Key Board	Feather touch
	Cabinet shoes	Retractable for better viewing
	Sensor cable length	4.5mtr.
2.	Sensor Unit	.
	Dimensions	165 dia X 70 H mm (without cable)
	Weight	1.2 Kg.
	Sensor type	Load cell
3.	Printer	.
	Printing method	Direct Thermal Printing
	Resolution / Print width	203 DPI / 2" (50.8mm) approx
	Paper Loading	Easy locking cover type
	Cutter	Manual
	Paper	digiFLOW ST2 Premium printer paper
4.	Collection Jar	.
	Capacity	2 ltrs.
	Dimensions	200 dia X 212 H mm approx.
	Weight	150 gms
5.	Report	.
	Graphical data	Flow in ml/sec., Volume in ml.
	Tabular data	Volume Voided, Peak flow, Voiding time, Flow time, Delay, Time to peak, Intervals and Average flow rate.
	Number of copies	Single or multiple (as many as needed before starting the next test or switching off the system).
	Customised letterhead	Optional



digiCARB-4

DIGITAL CARBON DIOXIDE INSUFFLATOR FOR LAPAROSCOPY



Salient Features

High Gas flow rate with precise electronic regulation.

“Soft Flow-in” and “Soft Flow-out” Control prevents excess intra-abdominal pressure.

Display for Gas Consumption.

Separate Digital Displays for Real-time values and Set values of Pressure and Flow Rate.

Flow Rate adjustable from 1 to 20 (digiCARB4D-20) 1 to 30 ltrs/min. (digiCARB4D-30).

Pressure adj. from 1 to 30 mmHg.

HIGH mode if selected calculates the required Flow Rate and adjusts accordingly. This helps in filling the cavity quickly particularly after suction.

Empty Cylinder Indication.

Accidental Open Outlet indication.

Easy to operate.

Compact & Light Weight.

Optional External Gas Warmer available.

Portable, can be carried easily.

Advanced High Speed Microprocessor Circuitry allows superior accuracy and performance in delivery and measurement of Carbon Dioxide gas.

The unique control algorithm stabilizes the pneumoperitonium even at a high leakage rate.

Assures rapid delivery of gas and provide immediate response for all procedures, especially when suction occurs.

Inexpensive Temperature Controlled Gas Warmer (optional) reduces chill effect of high flow insufflation and lessens telescope fogging.

Conforming to IEC60601-1-1 & IEC60601-1-2

Double Safety for Patient : Hardware and Software Controlled to avoid over pressure above 30mmHg.



Technical Specifications

Control Unit	Based on Ultra High Speed Micro Processor
Supply Voltage	91-256V AC @ 50-60 Hz
Power	24 Watts (max)
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Fuse	750mA, 5X20mm, Fast Blow
EN60601-1 Class	I
EN60601-1 Type	No Applied Parts
Input Gas	Carbon Dioxide (Medical Grade)
Input Pressure min.	1.5 kG/cm ²
Input Pressure max.	2.0 kG/cm ²
Output Pressure setting	4 to 30 mmHg
Output Cut-off pressure	45mmHg
Output Connection	Tube fitting for 4.5~5mm ID Tube
Flow Rate Setting	digiCARB 4.2 : 1 to 20 Ltrs/min digiCARB 4.3 : 1 to 30 ltr/min
Dimensions	290 mm W X 127 mm H X 292 mm D
Weight	4.4 kG
Display Type	Seven segment bright LED, Bar graph for pressure & flow
Key Board	Feather touch, sealed
Audio indication	Provided for Key entry & Fault
Operating temperature	15° - 35° C
Degree of protection	IP20
Requirement of Gas bottle / gas cylinder	Should accept standard type Carbon Dioxide pressure regulator

Packing details:

Control unit

Dimensions: 35X34X20cms.

Gross wt.: 4.9kg

Net wt.: 4.4kg.

Pressure Regulator

Dimensions: 18X16.5X14 CM

Gross wt.: 1.2kg

Net wt.: 1kg.

CellSonic

VIPP Therapy System

NON-INVASIVE | NO DRUGS | NO SIDE EFFECTS | CHEAPEST COST OF CURE

The CellSonic VIPP machine is a new branch of medicine that kills infection and triggers tissue regeneration. The origins of the technology go back forty years to removing kidney stones by shattering them with sound waves and this was the first ever non-invasive surgery. Since then the technology has been developed with new applications discovered. Drugs are not used so there are no side effects. VIPP is Very Intense Pressure Pulses which are fast bangs made by flashing high voltages across an electrode in a reflector containing water in a shock head. Gel is placed between the shock head and the patient with their body being largely water and the resultant pressure wave travels through the body without harming healthy cells and damages unhealthy cells.

It is the high speed nature of the wave that causes "micro tears" in structures to elicit a biological response.

This causes:

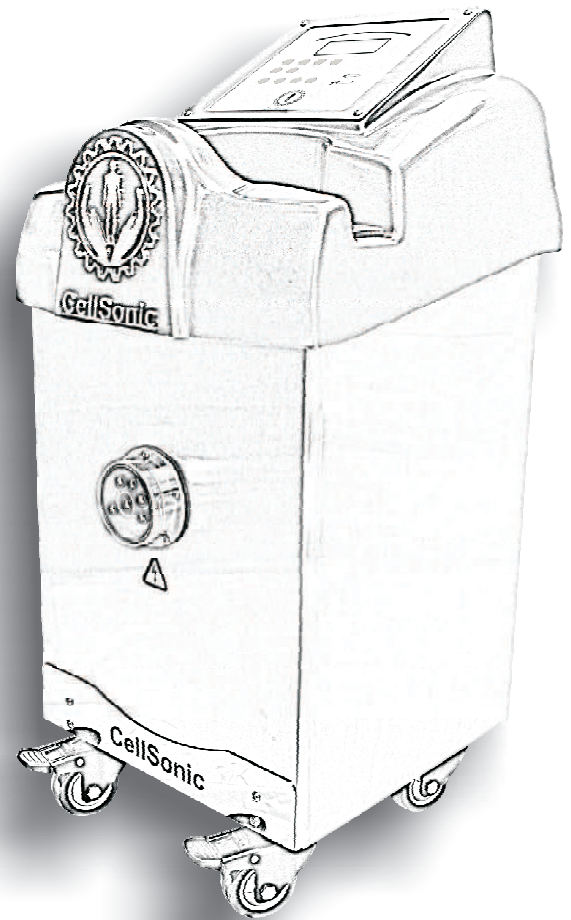
- Break up of biofilm around bacterial colonies (INFECTION CONTROL)
- Increased vascularisation (NEW BLOOD VESSELS, NUTRIENT DISTRIBUTION)
- Immunotherapy triggered by nerve regeneration
- Increased growth factors (MIGRATION OF STEM CELLS TO WOUND SITE)
- Kills infection
- Migration of stem cells to wound site to reduce scars

Impossible wounds are healed, especially diabetic ulcers. The infection is killed and the immune system triggered to cause new skin to grow. Large wounds heal with almost no scars.

Whether dealing with trauma wounds, diabetic foot ulcers or venous ulcers, the CellSonic Medical machine heals where other methods fail.

WE WILL PREVENT AMPUTATIONS AND REDUCE MEDICAL COSTS

From the healing of broken bones and non-union fractures came the physiotherapy applications and from that the ability to heal and remove the cause of pain. Treatment of muscles increases their strength and this applies to athletes as well as the infirm. Interestingly, race horses have been cured of lameness and given the strength to win races.



CellSonic is not just medical; from the early days, it was evident that CellSonic can remove cellulite so it has applications in beauty salons.

This seems far removed from the unique ability to cure osteonecrosis of the mandible caused by the side effects of cancer drugs and it is one of the many discoveries by doctors frustrated by the failure of conventional drugs and surgery. At last we have an easy cure for toe nail fungus; just zapping with CellSonic VIPP will kill the infection and let the nails recover their smooth shape.

In every case, it can be shown that CellSonic gives the lowest cost of cure and that is the only cost that matters. Many clinical papers are available. It is not CellSonic's policy to pay for papers to be written; they are all from customers and unbiased.

CellSonic

VIPP Therapy System

Applications:

Vascular

Angiogenesis

Urology

Erectile dysfunction
Peyronies disease

Orthopaedics

Non-union fracture
Fractures
Osteonecrosis

Podiatry

Diabetic foot ulcer
Toe nail fungus
Heel spur
Plantar fasciitis
Gout

Physiotherapy

Tennis elbow
Frozen shoulder
Achilles tendons
Lower back pain

Sports medicine

Muscle enhancement
Sprains

Surgery / Wound healing

All wounds including non-healing wounds
Arterial (ischemic ulcer)
Venous/varicose veins
Neurotropic (Diabetic)
Traumatic wounds including burn
Infected ulcer(viral, bacterial, fungal, parasite) e.g. chronic TB, Leprosy, Buruli
Inflammatory ulcer (various Rheumatology illness, lupus)
Tumour /benign and malignant

Pain removal

Damaged nerves

Plastic surgery

Scar removal

Aesthetics

Cellulite

Dental

Periodontal disease
Osteonecrosis of the mandible



Focal length	Indications
5 mm	Orthopedic, Erectile Disfunction and Physiotherapy
20 mm	Orthopedic and Physiotherapy
35 mm	Orthopedic
80 mm	Veterinary applications
Infinity	Non Healing Wounds, Diabetic wounds & ulcer and cellulite, any skin infection.

CellSonic

VIPP Therapy System

Chronic Infectious Skin Ulcers

Pretreatment



Post treatment



Chronic Ulcers

Pretreatment

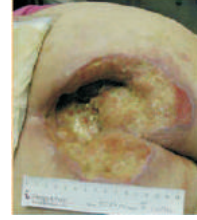


Post treatment



Decubital Ulcers

Pretreatment



Post treatment



Chronic Infected Ulcers
/ Wounds

Pretreatment



Post treatment



Burn Wounds

Pretreatment



Post treatment



Non Healing wound
post fractures

Pretreatment



Post treatment



CellSonic VET

VIPP Therapy System

NON-INVASIVE | NO DRUGS | NO SIDE EFFECTS | CHEAPEST COST OF CURE

We tried it on humans first!

A healing machine for animals bears a lot of resemblance to machines used on humans with important differences. An animal cannot tell us what they feel. We have to be careful. Where exactly has the machine to be aimed? What is hurting the animal?

Our experience goes long back when the idea of a machine doing a better job than drugs and a scalpel was ridiculed. The acceptance since then comes from seeing no side effects, a great cost saving and better healing.

A machine for vets has to be rugged. Animals may be unpredictable. Attention is on the animal, not the machine so its controls must be instinctive. If the operator jumps back, the machine must stop on its own.

CellSonic Vet is built for the stables, the yard, an environment far removed from the hygiene of a hospital and yet it delivers the same tissue improving pulses. Bone and skin is made to grow. Nerves re-form. Infection is killed without anti-biotics. Lameness in a horse can be corrected. Injuries on a dog can be healed without disturbing their digestion with drugs.

CellSonic's clever secret is the rapid pulse. Over the years this has been made faster so that it kills germs better and triggers the formation of osteoblasts and fibroblasts. There are easier engineering methods to save production costs but they do not deliver healing so they are not used by CellSonic. By any calculation, CellSonic gives you the lowest cost of cure.

If you have an animal problem not on the standard list, send us your question. What you know for sure is that the treatment is safe- we tried it on humans first.



The CellSonic VIPP machine is a new branch of veterinary medicine that kills infection and triggers tissue regeneration.

The origins of the technology go back forty years to removing human kidney stones by shattering them with sound waves and this was the first ever non-invasive surgery. Since then the technology has been developed with new applications discovered.

Drugs are not used so there are no side effects. VIPP is Very Intense Pressure Pulses which are fast bangs made by flashing high voltages across an electrode in a reflector containing water in a shock head. Pressure wave travels through the body without harming healthy cells. With this Impossible wounds are healed. The infection is killed and the immune system triggered to cause new skin to grow.

CellSonic VET

VIPP Therapy System

NON-INVASIVE | NO DRUGS | NO SIDE EFFECTS | CHEAPEST COST OF CURE



From the healing of broken bones and non-union fractures came the physiotherapy applications and from that the ability to heal and remove the cause of pain. Treatment of muscles increases their strength and this applies to animals involved in sporting activities as well as the infirm. Interestingly, race horses have been cured of lameness and given the strength to win races.

In every case, it can be shown that CellSonic gives the lowest cost of cure and that is the only cost that matters. Many clinical papers are available. It is not CellSonic's policy to pay for papers to be written; they are all from customers and unbiased.

Portability

The complete device fits in a car boot. It can be ported anywhere easily.





CellSploder

DIGITAL TREATMENT OF SURFACE INFECTIONS



SALIENT FEATURES

- Treats surface infections effectively, fairly quickly
- Easy to assemble and operate
- Effective treatment for Pimples, Acne, Athlete's foot, Fungal nails etc.
- Easy to operate Timer from, 30 to 180 seconds
- Digital Automatic Energy Level Adjustment
- Long Lasting MagicWire probes
- Based on an Ultra High Speed Microprocessor
- Full Digital System
- Simple Soft Touch Buttons
- Fuzzy Logic for Improved Energy Control
- Portable, Light Weight system
- Free Carrying Case
- Very comfortable treatment
- Machine is totally maintenance free
- Consumes low power
- Very low running cost / per treatment cost
- Low cost electrodes

CellSploder



Technical Specifications

Control Unit

Method	Based on Ultra High Speed Micro Processor
Supply Voltage	91-256V AC @ 50-60 Hz
Power	6 Watts (max)
Fuse	500mA, 5X20mm, Fast Blow
EN60601-1 Class	II
EN60601-1 Type	BF
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Treatment Cycle Timing	30 to 180 seconds programmable with an increment of 30 seconds (programmable through Key on front)
Open circuit output	16kV DC nominal
Nominal Output Current	100 μ A \pm 5%
Operating temperature	15° - 35° C
Dimensions	90 mm H X 280 mm W X 240 mm D
Weight	2 kG
Degree of protection	IP20

Hand Piece

Dimension	100mm L X 13mm \varnothing
Connection	Connected permanently to the console
Weight	50 gms (approx.)
Sterilization methods	The Hand Piece can be sterilised with Ethylene Oxide, Formaldehyde, Gluteraldehyde 2% or Formalin vapours.



CellSufflator

DIGITAL CARBOXYTHERAPY



What is Carboxytherapy?

Carboxytherapy is a non-surgical procedure used to infuse Carbon Dioxide gas below the skin (sub-cutaneous or intradermic) through a thin needle. Treatments are quick, comfortable, effective with no down time. Carbon Dioxide gas stimulates blood flow with several consequences.

- skin elasticity improvement,
- cellulite reduction,
- localized fat reduction and collagen production stimulation.

Carboxytherapy is a good alternative to liposuction for person who are not willing to go through anesthesia and surgical operations.

How does Carboxytherapy work?

it first fragilizes fat cells with a pressure traumatism, then,

in second, CO₂ leads to flood vassels dilation in the area where the gas is injected.

This reaction to carbon dioxide injection gives a better oxygenation of skin layers with increased lipolysis capabilities (Bohr Effect). The end result is fewer fat cells and skin tightening.

Carboxytherapy has been used for over 60 years in Europe where it was discovered (France, Royat). The procedure was widely used to treat ischemic vascular diseases because of the vasodilation properties of Carbon Dioxide.



Technical Specifications CellSufflator XT, CellSufflator VX, CellSufflator AX

Control Unit

Method	Based on Ultra High Speed Micro Processor
Supply Voltage	91~256V AC @ 50-60 Hz
Power	24 Watts (max)
Fuse	750mA, 5X20mm, Fast Blow
EN60601-1 Class	II
EN60601-1 Type	BF
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Input Pressure	1.5 ~ 2 kG/cm ²
Flow Rate	10-150 cc/min.
Duration setting	1-99 minutes
Input gas	Compressed Carbon Dioxide (Medical Grade)
Operating temperature	15° - 35° C
Dimensions	90 mm H X 280 mm W X 240 mm D
Weight	3 kG
Degree of protection	IP20
Display	Seven Seg. LED for CellSufflator AX & VX, LCD for CellSufflator XT

CellSufflator





SHAPE

DIGITAL NON-INVASIVE FAT & CELLULITE REDUCTION THERAPY



Shapes your body safely with the non-invasive method. It is based on Radio Frequency (RF) waves. RF waves been found to have many applications, one of which is treating fat and cellulite. For many people, getting rid of excess fat can be a lifelong battle. Now, dermatologists are finding that the introduction of non-invasive fat removal technologies is opening the door for more people to remove stubborn fat, safely and effectively.

For many years various versions of these machines have been used by surgeons, physicians and beauticians. Shape machine can be used to release cellulite and fat safely for disposal by the body. Our invention has been to redesign the whole machine to bring the price down to a mass market. The Radio Frequency (RF) is the high-tech beauty treatment, adopts the non-invasive radio frequency technology, tightens and makes the skin smooth from parts to body.

Typical areas of treatment include, Arms, Abdomen and love handles, Buttocks and Thighs. Fairly quick results are usually visible and improve over a two to six month time following treatment sessions.

This is a pain-free and comfortable way to get rid of unwanted fat, contour and tone your body.

Generally for a body a course of 6-8 treatments are needed, and for the face a course of 6 treatments are needed at one week intervals. However in order to gain the full benefits, it is recommended that you lead a healthy and balanced lifestyle.



RF Probe

Shape

Technical Specifications (Control Unit)

Supply Voltage	90-265V AC, @ 50-60 Hz
Power	100 VA
EN60601-1 Class	II
EN60601-1 Type	BF
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Fuse	5Amp, 5X20mm Glass cartridge, Fast Blow.
Energy Levels	1 to 10
Duration	1 to 20 minutes
Indicators	LED indicators for TREATMENT STATUS
Display	LCD
Keys	To set all parameters
Weight	4 kg. approx
Dimensions	290 W X 127 H X 292 D mm
Degree of protection	IP20
Operating Conditions	
Temperature	15° - 35° C
Relative Humidity	30 ~ 75% non-condensing
Atmospheric Pressure	700 ~ 1060 hPa
Storage and transport Conditions	
Temperature	-10°C to +40°C
Relative Humidity	20 ~ 90% non-condensing
Atmospheric Pressure	500 ~ 1060 hPa
Hand Piece	
Dimension	100mm L X 13mm Ø
Weight	250 gms (approx.)
Sterilization methods	The Hand Piece can be sterilised with Ethylene Oxide, or Formalin vapours.



TIME MACHINE

DIGITAL SKINCARE SYSTEM



SALIENT FEATURES

- Reduces wrinkles considerably, fairly quickly
- Improves skin tone
- Easy to assemble and operate
- 10 Energy Levels
- Digital Energy Level Adjustment
- Time setting from 10 to 20 minutes according to choice
- Four different Phases specially designed to take care of the skin
- Long Lasting Gloves, no need to use sticky or rigid electrodes on face
- Based on an Ultra High Speed Microprocessor
- Two different modes and programmes for Face and Body
- Simple Feather Touch Keys
- Fuzzy Logic for Improved Energy Control
- Portable, Light Weight system
- Free Carrying Case
- Very comfortable treatment
- Unlike conventional TENS no sensation of heavy shocks
- Machine is totally maintenance free
- Consumes low power
- Very low running cost / per treatment cost

TIME MACHINE



TIME MACHINE Technical Specifications

Control Unit

Method	Based on Ultra High Speed Micro Processor
Supply Voltage	91-256V AC @ 50-60 Hz
Power	10 Watts (max)
Fuse	500mA, 5X20mm, Fast Blow
EN60601-1 Class	II
EN60601-1 Type	BF
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Treatment Cycle Timing	10 to 20 minutes programmable with an increment of 1 minute (programmable through Key on front)
Energy Levels	1 to 10, Total Ten choices (programmable through Key on front)
Phases per treatment	Four
Display	Digital Seven Segment LED
Operating temperature	15° - 35° C
Dimensions	265 mm W X 112 mm H X 135 mm D
Weight	2 kG
Degree of protection	IP20

Copper Gloves

Material	Blend of Polymer & Copper
Connection	4 mm button connector
Weight	10 gms (approx.)
Sterilization methods	Ethylene Oxide, Formaldehyde, Gluteraldehyde 2% or Disinfectant Cleaner



CLL150

PORTABLE LED LIGHT SOURCE FOR ENDOSCOPES

The illumination guiding you through your endoscopic procedures guarantees Visual Satisfaction



The CLL150 LED Light Source is a direct replacement to the conventional 300W Xenon Light Source. The state-of-the-art light source provides perfect illumination for all endoscopic specialties. Intuitive operation makes the CLL150 Light Source easy to use. The high performance digital control ensures smooth and precise illumination control over the entire range. Advanced LED Lamp technology and optics deliver a bright and balanced illumination physicians and surgeons demand. Excellent engineering, efficient design, and outstanding performance - the qualities you expect from the leader in endoscopic imaging.

Salient Features

- LED life of about 55,000 hours
- Perfect Optical Collimator for getting maximum light
- Intensity can be varied as per the requirement through Electronic Control
- Ideally suited for all Endoscopic procedures including Laparoscopy
- In-built Filter
- Bright Light for Video applications
- High Colour Rendering Index
- Cool white light. Colour temperature in between 5000° to 6400° K
- Compact & Light Weight
- Easy interchangeable Storz & Wolf compatible adaptors
- Adjustable Light Cable Adaptor. Accepts 3 to 10mm Ø cable
- State-of-the-art Electronic Circuit increases efficiency
- No Ultra Violet or Infra Red emission

CLL150



Technical Specifications

Supply Voltage	100~240V AC @50/60Hz
Power	130 Watts max.
Power entry	Panel mounting IEC C14 inlet
Fuse	1A, 5X20mm, Fast Blow
Light Delivery	Through Optical Collimator Assembly
Intensity Control	Electronic, Continuously Variable
Intensity Variation	about 10 to 100%
Lamp Type	Light Emitting Diodes
Colour temperature	5000° to 6400° K
C.R.I.	80
Output compatibility	Storz & Wolf adaptors provided
Cable Size	3 to 10 mm Cable Connector
Lamp Life	Approximately 55,000 hours
Method of Cooling	Forced Air
Dimensions	31 W X 31 D X14.5 H cm
Weight	5.5 kg.
Operating temperature	15° - 35° C
Degree of protection	IP20
Pack size	35 X 34 X 20 cm



CLL150



CLX250

PORTABLE XENON LIGHT SOURCE FOR ENDOSCOPIES

The illumination guiding you through your endoscopic procedures guarantees Visual Satisfaction



The CLX250 Light Source provides perfect illumination for all endoscopic specialties. Intuitive operation makes the CLX250 Light Source easy to use. The state-of-the-art digital control ensures smooth and precise shutter operation. Advanced Xenon Lamp technology and optics deliver the bright and balanced illumination physicians and surgeons demand. Excellent engineering, efficient design, and outstanding performance - the qualities you expect from the leader in endoscopic imaging.

Salient Features

- 250 Watts Bright Xenon Lamp
- Perfect Optical Collimator for getting maximum light
- Intensity can be varied as per the requirement through Electronic Control
- Ideally suited for all Endoscopic procedures including Laparoscopy
- In-built Filter
- Bright Light for Video applications
- Easy Lamp replacement
- Low-cost replacement lamps
- True 250 Watts output
- Compact & Light Weight
- Storz type Light Cable Adaptor
- State-of-the-art Electronic Circuit increases lamp life
- Heavy duty cooling system ensures the temperature well within the limits

CLX250



Technical Specifications

Supply Voltage	230V AC @50/60Hz (110V optional)
Power	470 Watts max.
Power entry	Panel mounting IEC C14 inlet
Fuse	5A X 2 nos., 5X20mm, Fast Blow
Light Delivery	Through Optical Collimator Assembly
Intensity Control	Electronic, Continuously Variable
Intensity mode	Key to select basic intensity mode, Hi - Lo
Lamp Type	250 Watt Xenon Short Arc
Colour temperature	5600° K
Output compatibility	Compatible with Storz cable
Lamp Life	Approximately 500 hours
Method of Cooling	Forced Air
Dimensions	39.5 X 35 X 13.5cm
Weight	11 kg.
Hour counter	Provided on the back.
Operating temperature	15° - 35° C
Degree of protection	IP20

Lamp ON / OFF Key



Lamp Power LOW / HIGH Selection



Hour Meter to monitor Lamp Life



Lamp Intensity Control



CLX250



HL100

LED HEAD LIGHT

The illumination guiding you through your activities guarantees Visual Satisfaction



The state-of-the-art light source provides perfect illumination for examination for most specialities. Intuitive operation makes the HL100 Head Light easy to use. The high performance control ensures smooth and precise illumination control over the entire range. Advanced LED Lamp technology and optics deliver a bright and balanced illumination. Excellent engineering, efficient design, and outstanding performance - the qualities you expect from the leader in light sources.

Salient Features

- | | |
|--|--|
| Long LED life | Cool white light. |
| Perfect focus for getting maximum light | Compact & Lightweight |
| Intensity can be changed as per the requirement through Electronic Control | Easy to wear adjustable belt |
| Ideally suited for all kinds of examinations | Adjustable focus area |
| Angle can be adjusted easily | State-of-the-art Electronic Circuit increases efficiency |
| Operates only on 3 X AAA cells | No Ultra Violet or Infra Red emission |
| Long battery life | No need to recharge |
| | High Colour Rendering Index |

HL100

Technical Specifications

Supply Voltage	4.5V DC
Power source	3 X AAA cells
Light Delivery	Reflected & direct
Intensity Control	Electronic, two steps
Modes	Continuous and flashing
Illumination	1400 lux @30cm.
Lamp Type	Light Emitting Diodes
Method of Cooling	Air
Dimensions	64 W X 73 D X 46 H mm approx
Weight	64gms. (without cells)
Operating temperature	15° - 35° C
Degree of protection	IP20



Micturition Accessories

For Uroflometry



Micturition Chair

The Micturition Chair can be used with the digiFLOW series of UROFLOMETRY Systems. It is a compact and simple chair. It can be used by males as well as females. It is supplied in a dis-assembled form. It can be assembled in a few minutes.

Technical Specifications

Particulars

Dimensions	:	46X38X51 (H) CM
Weight	:	4.6kG
Suitable for	:	Male & Female
Material	:	Frame made with Epoxy powder coated steel, Seat and funnel made of washable plastic

Micturition Accessories

For Uroflometry



Micturition Stand SS

The Micturition Stand can be used with the digiFLOW series of UROFLOMETRY Systems. It is a compact and stand. Good for prostate camps. It can be used by males. It is supplied in a dis-assembled form. It can be assembled in a few minutes. The height of the funnel is adjustable. It is made of Stainless Steel.

Note: The collection jar and the sensor unit are not parts of the Micturition Stand

Technical Specifications

Particulars

Dimensions : 32X50X64 (H) CM

Weight : 1.6kG

Suitable for : Male

Material : Stainless Steel 304

Funnel made of washable plastic

Micturition Accessories

For Uroflometry



Micturition Stand

The Micturition Stand can be used with the digiFLOW series of UROFLOMETRY Systems. It is a compact and stand. Good for prostate camps. It can be used by males. It is supplied in a dis-assembled form. It can be assembled in a few minutes. The height of the funnel is adjustable.

Technical Specifications

Particulars

Dimensions	:	32X50X64 (H) CM
Weight	:	1.6kG
Suitable for	:	Male
Material	:	Frame made with Epoxy powder coated steel, Funnel made of washable plastic



Optical Fibre Cable

For LED, Xenon and halogen cold light sources
for endoscopies

The illumination guiding you through your
endoscopic procedures guarantees Visual Satisfaction



Optical Fibre Cables for different kinds of Light Sources provide perfect illumination for all endoscopic specialties. Super flexibility of cables makes the cables easy to use. The state-of-the-art fibre material ensures smooth and precise light distribution. Advanced technology optics deliver the bright and balanced illumination physicians and surgeons demand. Excellent engineering, efficient design, and outstanding performance - the qualities you expect from the leader in endoscopic imaging. Available in Ø3.5mm and Ø4.5mm fibre. Standard length is 2.28mtr (7 ½ ft.).

Optical Fibre Cable



Trolley



Available in three different tray sizes

Note: The device shown on the Device Tray is not a part of the trolley

www.Apex-Meditech.com

Specifications are subject to change without prior notice

Trolley



Technical Specifications - Trolley

Type A

Overall Dimensions	870 mm H X 520 mm W X 520 mm D
Tray dimensions	300 mm W X 260 mm D
Weight	10 kG
Gas bottle holder	Ø 100 mm X 200 mm H
Spares compartment	145 mm W X 95 mm D X 75 mm H
Material	Mild steel
Surface finish	Epoxy powder coated

Type B

Overall Dimensions	870 mm H X 520 mm W X 520 mm D
Tray dimensions	270 mm W X 240 mm D
Weight	10 kG
Gas bottle holder	Ø 100 mm X 200 mm H
Spares compartment	145 mm W X 95 mm D X 75 mm H
Material	Mild steel
Surface finish	Epoxy powder coated

Type C

Overall Dimensions	870 mm H X 520 mm W X 520 mm D
Tray dimensions	300 mm W X 180 mm D
Weight	10 kG
Gas bottle holder	Ø 100 mm X 200 mm H
Spares compartment	145 mm W X 95 mm D X 75 mm H
Material	Mild steel
Surface finish	Epoxy powder coated

Medical Devices



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