



**CompLit<sup>®</sup>**

**ELMED**  
Lithotripsy Systems

# Complit

**E**LMED as your solution provider, keeps carrying on research and development activities and proudly introduces new Complit system, equipped with the movable iso-centric shock wave head which enables user to change the angle of the shock wave head without changing the focal point. This allows the user to choose ideal shock wave coupling angle, in order to increase the effectivity of the treatment.

With this special feature, Complit provides flexibility for users and comfortable treatment for patients for different treatments. Without changing the patients position from flat to prone on the table, the shock wave head can be placed under table position for Ultrasound localization and above table position for urethral stones.

Complit, as an additional and first ever feature on the world, possesses a built-in dynamic patient recording and statistical reporting software for the recording necessary data during treatment and patient records. The same unique software also enables user to control and operate Complit simultaneously.



# ELMED

## Lithotripsy Systems



Due to its compact and computerized structure, Complit is ready for you to localize precisely the stone by using its specially designed U-arm fluoroscopy unit, Lithoscope or standard C-arm unit and the computerized automatic ultrasonic localization robot arm, Lithoarm.

This is a new feature for the lithotripsy units and a prerequisite for being a new generation equipment.

To meet the changing and increasing requirements of the users and for the comfort of the patient, Complit presents the complete solution to the lithotripsy world.



The optional ultrasound probe attachment whose center axis passes through the focal point on every position provides to the user real-time imaging and manual localization by ultrasound.



Complit, with its compact structure, is specially designed and developed as a combination of a urological table and lithotripsy unit.

With the moving the shock head down to the table on its arc and with the placement of a special cover, table can become a complete urological table ready for all endourological operations.







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## Main Specifications

### COMPLIT

Energy Source	Electro-hydraulic system
Focusing	Ellipsoid
Patient Coupling	Membrane (Dry Coupling)
Localization	Fluoroscopy and/or Ultrasound
Focal Distance	135 mm.
Focal Dimension	7.5 x 22 mm. (50 % isobar dim.)
Focal Pressure	up to 1200 bar
Operating Voltage	variable 0 to 21 KVolt (24 KV for long-life system)
Frequency	variable 40 to 150 shocks/min. (optional)
Triggering Modes	Automatic, ECG, Respiratory and Manuel (optional)
Water System	closed loop circuit with water cushion pressure regulation and 8.5 lt. water capacity

### TABLE

Movements	Electric motors in 3-dimension
Top Dimensions	1200 mm x 700 mm
Leg Support	720 mm x 800 mm
Head Support	720 mm x 400 mm
Vertical movement	300mm
Longitudinal	100 mm. (150 mm. optional)
Transverse	100 mm. (150 mm. optional)
Height	870 - 1170 mm
Width	700 mm (ex. Isocentric Arc and Lithoarm)
Length	1200 mm without supports
Weight	240 kg

### LITHOARM

Manipulator Type	Revolute type Articulated arm
End effector	Ultrasound Probe holder
Kinematics parameters	7 links, 6 joints and 5 angles
Angle Sensors	Precision resistive angle sensors
Software	32 Bit execution under Windows operating system
Application	Adaptable to every kind of lithotripters

### LITHOSCOPE

Fluoroscopy Voltage	40 - 110 KVolts (Automatic Brightness Control)
Fluoroscopy Current	0.2 - 3.5 mA (ABC) two main selection
Image Intensifier	6" (7", 9", 12" optional)
X-Ray Tube	0.6-1.5 (1.8 mm. optional) mm. focal spot, fixed anode tube 40.000 H.U.
TV Camera	High resolution CCD Camera
Monitor	17" BW, 625 / 50 or 525 / 60 lines
Height	1830 mm
Length	1250 mm
Width	510 mm
Weight	225 kg

### GENERAL

Main Supply	230 or 115 VAC±10%50-60 Hz Single Phase
Safety Standard	According to EN 60601-1 Class I, Type B According to 93/42/EEC, Class IIb

**ELMED Is Proud To Offer  
The Medical Profession  
Worldwide  
An Innovative, Advanced  
Lithotripsy System,**

## COMPLIT

**Movable Isocentric Shock  
Wave Head  
Fully Computerized  
Control System  
Under Table  
Shockwave Generator  
Ultrasonic & Fluoroscopic  
Localization System  
Dynamic Patient Recording  
And  
Statistical Reports**



**ELMED™**  
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