

# URO-EMX

URONTECH Electromagnetic Lithotripter URO-EMX

For Your Health



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# Why use electromagnetic technology in ESWL

(Extracorporeal Shock Wave Lithotripsy)



Incorporating electromagnetic technology with ESWL gives the most effective treatment.

## Why electromagnetic technology of ESWL is the most effective?

- **Precise and effective treatment**
  - High accuracy positioning and high performance to break up kidney stones
  - Much less noise during treatment
- **Economic management**
  - No consumable in general operation
  - Durable main parts can be used for a long time
- **Safety and increased for patient comfort**
  - Much less pain and satisfaction form patients
  - Kidney stones are broken down into a size that is easily passed out of the body via the urinary channel



Sophisticated shape reflector with arc trail movement

+++ Revolution For Urontech +++



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# What makes URO-EMX high performance

## What makes Urontech URO-EMX strong in the market

- URO-EMX has developed new advanced technology for electromagnetic type ESWL, which is fully integrated with C-arm. It gives consistent and reliable performance.
- Urontech URO-EMX designed a stainless steel reflector of ultra sophisticated shape with advanced technology and there is a low re-treatment rate. This gives the machine high accuracy for more efficient breaking up of kidney stones. Patients are highly satisfied with the operation result.
- Urontech provides golden service to customer. Urontech has the programmed schedule for service tour regularly and well-managed service program.
- Physicians can focus on the operation and can get better patient satisfaction.
- Urontech has accumulated experience and know-how from clinical results and the market requirements. This ensures Urontech can offer customer satisfaction far into the future.



URO-EMX Electromagnetic Generator with X-Ray System



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# ■ New technology and main advantages

## ■ Sophisticated shape reflector

- High accuracy focus on operating point and can make much less pain for patients,

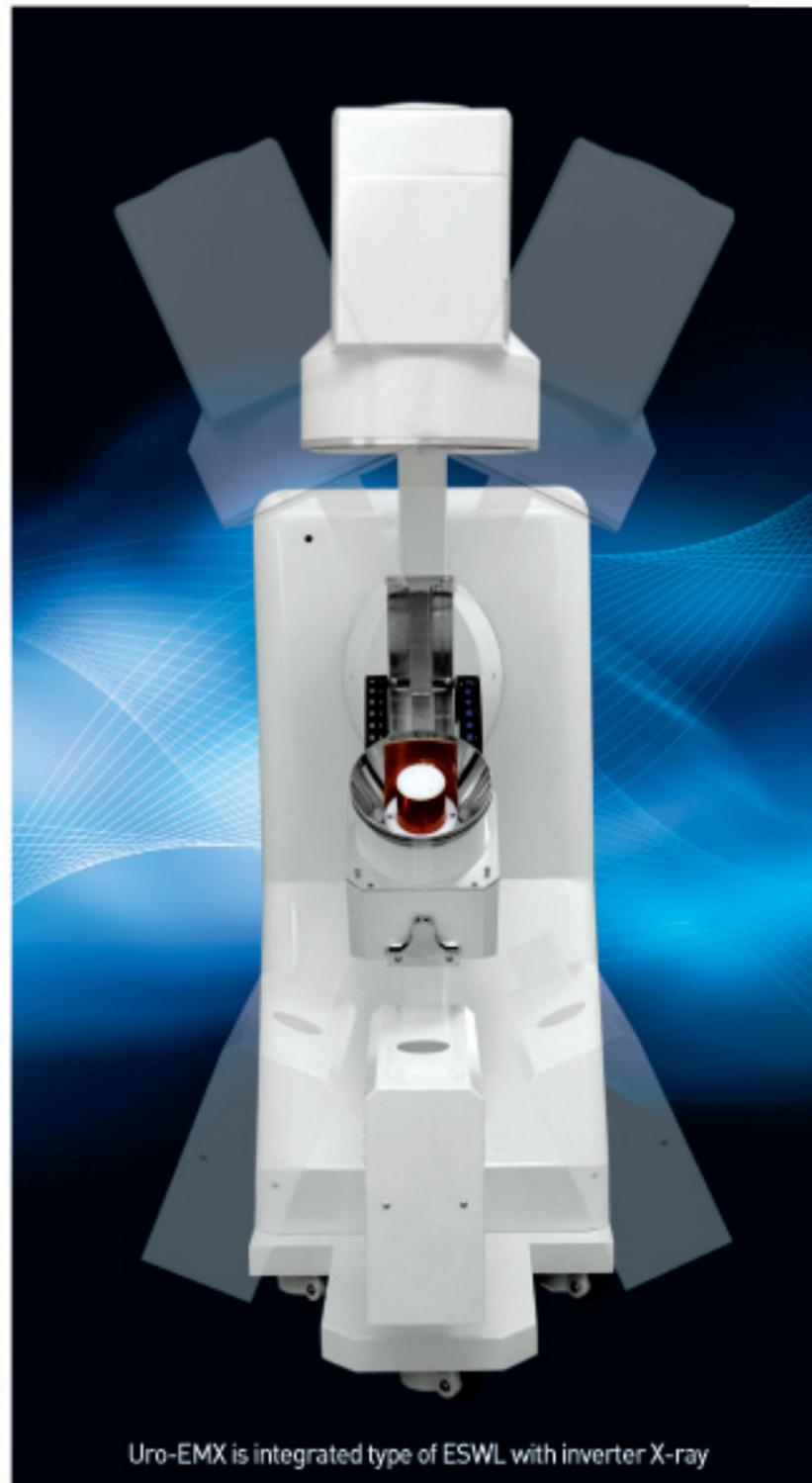
## ■ Inverter type X-ray generator

- Digital imaging technology for outstanding image quality and low radiation dose with minimized noise signal.
- **Tube Focal Spot is as small as 0.3 mm.**
- There is no heat in generator. This makes the X-ray tube durable even though it is used continuously.

## ■ 9 inch Image Intensifier

- Helps to find stones more easily
- Image quality is also much better

## ■ High resolution CCD Camera 1024x1024



Uro-EMX is integrated type of ESWL with inverter X-ray

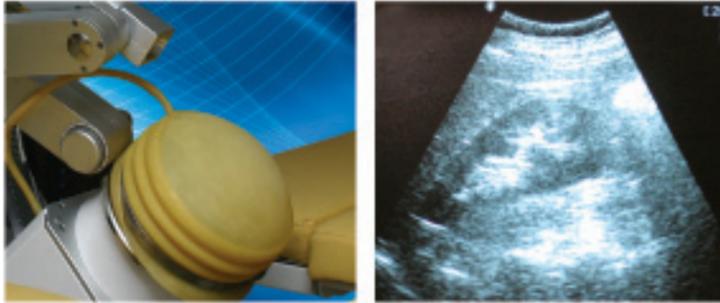


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# New technology and main advantages

## ■ Ultrasound localization

- Ultrasound localization arm demonstrates positioning flexibility while avoiding interacting with shock wave.



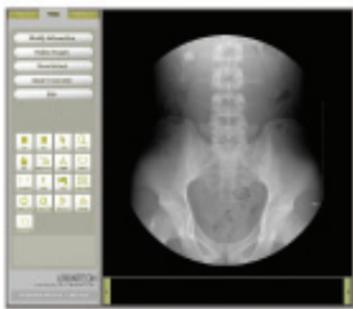
## ■ Arc trail movement of ESWL head

- Find exact focus according to various kinds of clinical position.



## ■ Image & patient data management software

- The graphical user interface allows direct interaction with all functions and can measure the stone size exactly
- Patient data can be entered quickly and retrieved at any time.



## ■ Touch screen control box and remote control

- It is designed to be user friendly, clinicians will find it easy to use.



- Comfortable table and easy table movement easily  
Table is comfortable and easy to move (re-position)



Control box with touch screen

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# Specifications

## Uro-EMX is integrated type of ESWL (ESWL + C-Arm)

### ESWL unit

Energy source	Electro-magnetic system
Focusing	Ellipsoidal
Localization	X-ray fluoroscopy and/or ultrasound system
Operating voltage	10 to 18 kV, adjustable
Ellipsoid aperture	$\pi$ 220 mm
Focal pressure	0 to 1200 bar
Focus dimensions	$\pi$ 4 mm x 30 mm (w x h x d)
Water cushion capacity	10 liter
Height	800 mm
Length	1000 mm
Weight	250 Kg

### Treatment table

Patient surface	210 Cm x 80 Cm
Height adjustment	20 Cm
Longitudinal adjustment	15 Cm
Transverse adjustment	15 Cm
Weight	120 Kg

### C-arm X-ray

Patient surface	210 Cm x 80 Cm
Height adjustment	20 Cm
Longitudinal adjustment	15 Cm
Transverse adjustment	15 Cm
Weight	120 Kg

### Power requirements

Tube power rating	3.5 KW 120 kVp
X-ray generator type	Half-wave sliiclum rectified, high frequency generator
Power rating	5.5 KW 110 kVp - 80 mA
Generator	Inverter type
kV range	40 - 120 kV
mA range	0 - 5 mA
Image intensifier	9 inch
C-arm rotation	Left/Right scan : $\pm$ 30 degree

### Environmental conditions

Operating temperature	10°C to 30°C
Humidity	35% to 85 %
Non-operating temperature	-15°C to +40°C
Space requirement	4 m x 3 m



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