

Imaging Alternatives: Standard or Premium Digital Fluoroscopy Configurations



Integra offers Standard Fluoroscopy with excellent image quality, incorporating a 40 KHz high frequency X-ray generator, a digital camera with image resolution of 1K x 1K matrix.

Integra Premium Fluoroscopy has a rotating anode and is characterized by its maximum radiation rate of 20 Rad./min with superb images even for heavy patients.

The Premium model is supported by a double screen console.

Ultrasound Imaging Module

Integra can be provided with an optional ultrasound imaging module. The module is horizontally oriented and offers an alternative imaging modality for real time treatment monitoring and for radio transparent stones. The ultrasound and the fluoroscope can be operated and viewed simultaneously.



Distribution

Direx distributes its products in over 70 countries worldwide.

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TECHNOLOGY FOR UROLOGY and more

Dedicated to providing physicians worldwide with innovative high-technology devices.

Direx marks over 30 years of high technology innovation during which we have offered advanced and unique therapeutic technologies in urology. Since the groundbreaking introduction in 1986, of the world's first modular and compact SWL system, further innovations have been introduced to the market including:

- Linear Shockwave Therapy for Erectile Dysfunction
- Low Intensity Shockwave Therapy for Diabetic Foot Ulcer
- Dual-head shockwave lithotripsy
- Stationary patient SWL with Integra, incorporating In-line and On-line fluoroscopy

To date, thousands of such devices have been installed in over 70 countries worldwide. These units are supported by trained and experienced service professionals.



integra

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Integra: A State-of-the-Art Electromagnetic SWL System

Integra incorporates a novel shockwave technology, innovative imaging and a revolutionary architecture oriented toward fragmentation effectiveness and accurate imaging. Integra is a single integrated unit, including a fluoroscopy system, treatment table and shockwave unit all in one. The vertically positioned shockwave source offers in-line fluoroscopy without the need to delay the treatment procedure (“on-line”).

- Ideal vertical shockwave orientation with novel Air Duct technology
- Unique In-Line AND On-Line fluoroscopy
- One View localization using only horizontal movements
- No coupling: reducing set up and treatment time
- Standard or Premium digital fluoroscopy configurations



Vertical Shock Wave Orientation/Delivery Through the Patient’s Back

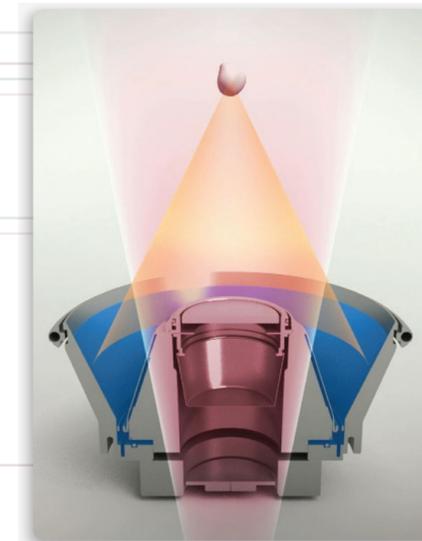
Integra uses a vertical orientation shockwave source instead of lateral orientation which entails a series of advantages:

- In-line X-ray Imaging which allows imaging in the exact shockwave pattern.
- Shorter distance between the source and the target stone improves treatment efficiency.
- Shockwave path to kidney passes mainly through muscles and not through intestines (gas) leading to better fragmentation



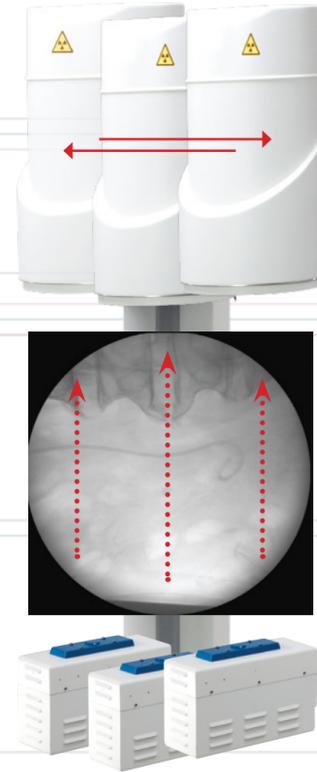
“In Line”/ “On Line” Fluoroscopy: Air-Duct Design The Best of Both Worlds

Since common fluoroscopy imaging orientation is vertical, an “in-line” shockwave must also be in a vertical orientation (aimed through the patient’s back). Integra’s special design is unique in such that it allows in-line fluoroscopy image acquisition in real time (on-line) without stopping the treatment session. Integra’s unique electromagnetic transducer allows the physician to view a full 9” image in-line with the shockwave path.



One View Localization

Integra introduces the innovative One View Localization System making it the only ESWL system today that allows perfect localization of the target by using vertical views only. In order to achieve localization with Integra, all that is needed is to move the fluoroscopy unit on the XYZ axes. This method replaces the need for tilting the fluoroscopy unit in order to receive images at different angles.



TEM Technology - Transducer Efficiency Monitoring

Most electromagnetic ESWL systems suffer from the same phenomenon: the electromagnetic transducer that generates the shockwaves, experiences declined efficiency with time. This deterioration causes reduced clinical efficiency. TEM is a unique Integra feature that allows the calculation of the transducer energy efficiency in real time. The system alerts the operator when optimal energy generation is approaching its end and defines when the transducer replacement is required.

