



Dornier  
DELTA III PRO

**DORNIER  
DELTA III PRO**  
Our best got  
even better



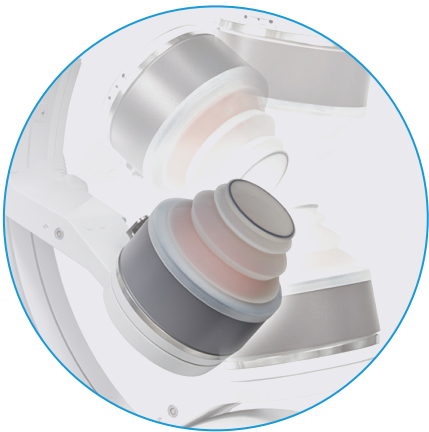
Dornier *MedTech*

# Why Delta III Pro



**Excellent system efficiency** for optimized treatment outcomes

## Experience Dornier's Exclusives



### Flexible Therapy Head

Offering a wide range of movements



### EMSE 180

Most clinically proven shock wave technology<sup>1</sup>

### OptiVision

The perfect image-processing solution for urology



### OptiMove

Achieving precise table movements





Advanced  
imaging for  
**greater clarity**



**Smart & connected,**  
for improved procedural  
performance



Ergonomic design  
for **efficient**  
**workflow**



### Dual Imaging Option

Combining the benefits  
of ultrasound and X-ray

# Excellent system efficiency for optimized treatment outcomes

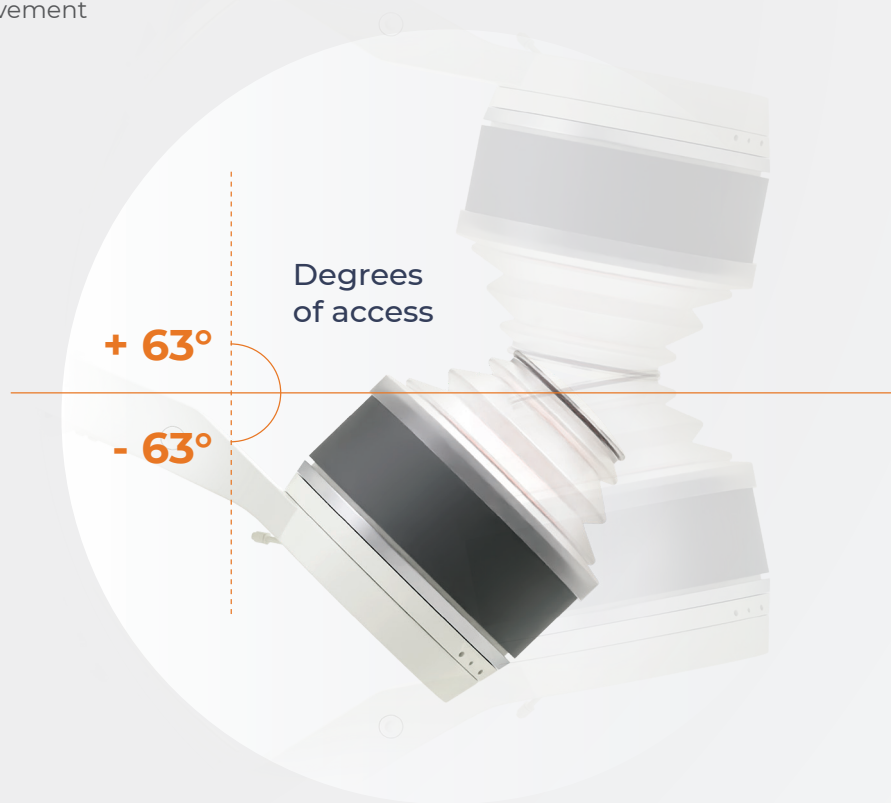


## EMSE 180

- Penetration depth of 170 mm to treat a broad spectrum of patients, including obese patients
- Large coupling area of the therapy head for gentle treatment

## Best-in-class therapy head movements

- + 63° / - 63° of therapy head treatment positions through isocentric motorized orbital movement
- 220° motorized axial rotation of the therapy head for optimized coupling



## Automatic degassing

- Optimize energy transmission through continuous, automatic degassing

Scan to learn  
more about  
**Delta III Pro's**  
clinical benefits





## OptiCouple: 43% more effective

- Offers Optical Coupling Control through an integrated camera in the therapy head, providing visual information on air inclusions at the coupling interface
- Improves energy transmission by up to 43%<sup>2</sup>
- Achieves 94.5% stone-free rate<sup>3</sup> and shorter treatment durations

Energy  
needed for  
effective  
stone  
treatment

Without OptiCouple: 100%

With OptiCouple: 57%

Total applied shock wave energy (%)

◀ **43% more effective**  
Lesser shock waves required  
and shorter treatment time

### Optical Coupling Control



BEFORE WIPING



DURING WIPING



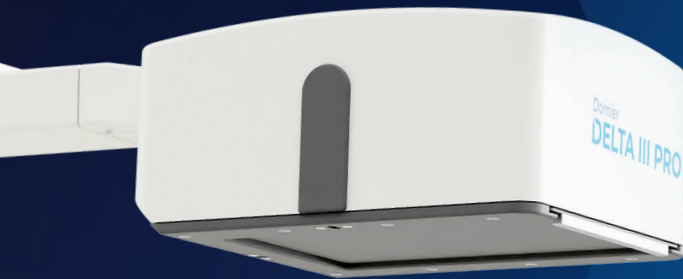
AFTER WIPING

### Did you know?

Air bubbles in the coupling gel can significantly impair energy transfer of shock waves and may even result in side effects such as petechiae.

Removal of visualized  
air bubbles by the user

# Advanced imaging for greater clarity



## Flat panel detector (FPD) technology

- Offers clear and sharp images with lower degradation over time
- Provides 20% greater field of view compared to 9-inch Image Intensifier
- Compact design offers more flexibility and convenience

## Ultrasound-guided ESWL

- Eliminates radiation exposure for patients and users while allowing users to detect any type of stones
- Real-time monitoring offers immediate readjustment of patient positions when necessary and maintains stone alignment over the target zone
- Isocentric ultrasound imaging provides a high degree of flexibility and imaging quality<sup>4</sup>







## Dual imaging option: The best of both worlds

- Comprehensive imaging capabilities, with the option of localizing stones using either X-ray or ultrasound imaging, or both simultaneously
- X-ray stone localization allows fast, initial positioning of the patient, while ultrasound provides real-time information on patient respiration and stone disintegration

### Benefits of **FLUOROSCOPY**

- Easy to learn
- Able to target all anatomical locations

### Benefits of **ULTRASOUND**

- No radiation exposure
- Able to image stone regardless of chemical composition
- Continuous, real-time imaging



ESWL using the dual imaging method

**improves the success rate and reduces the rate of complications.**

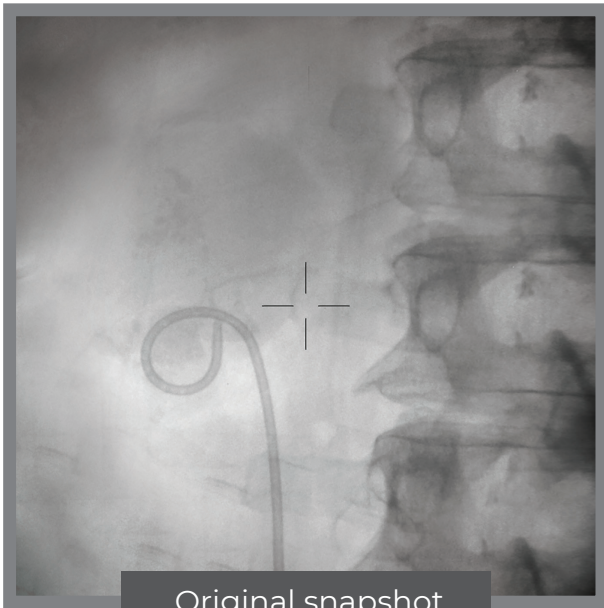
This is likely due to the accurate continuous targeting of shock waves on the treated stone combined with continuous renal architecture inspection.



*Extracted from "SWL with continuous targeting by ultrasound; are there benefits?" clinical publication<sup>4</sup>*

## OptiVision: The perfect image-processing solution for urology

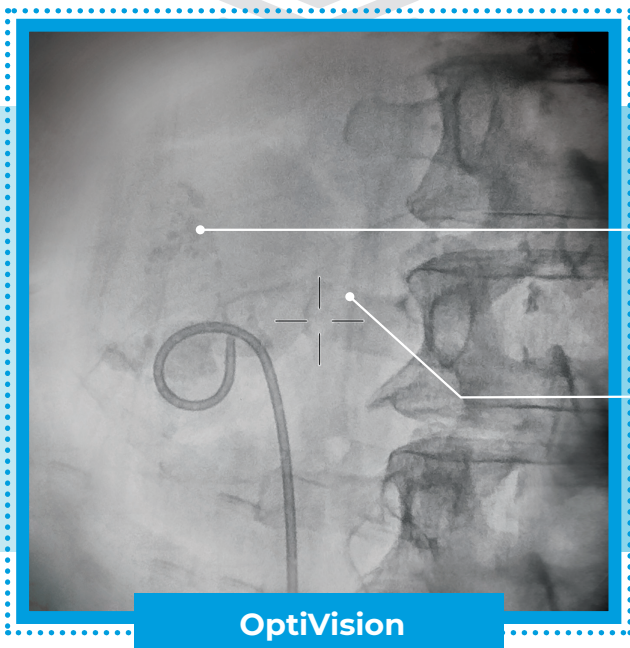
- Delivers sharp stone imaging details, even in challenging clinical scenarios (such as in obese patients, presence of bowel gases etc)
- Enhances images using an intelligent algorithm, thereby neutralizing negative optical effects and eliminating cumbersome manual post-processing



“ Our findings demonstrated that using the specially designed imaging modality **OptiVision was significantly helpful**

in identifying and localizing stones with high-quality images before SWL for effective stone disintegration during this procedure. ”

*Extracted from "Importance of precise imaging for stone identification during shockwave lithotripsy: a critical evaluation of "OptiVision" as a post-processing radiography imaging modality" clinical publication<sup>5</sup>*



### Better confirmation on fragmentation status

OptiVision reveals a clearer, sharper outline



### Bony structures are more evident

Greater clarity in spotting bony structures that might lay in the path of the shock waves

Note:

Images were taken through an image intensifier and enhanced by OptiVision.

OptiVision is available as an optional add-on to the Dornier UIMS, which is offered in combination with the Dornier Delta III series.



# Smart & connected, for improved procedural performance

## Dornier UIMS

Delta III goes pro with Dornier UIMS: an intelligent urology software solution



### SEAMLESS CONNECTIVITY

Integrate with hospital systems for easy data reporting, management of medical images & related data



### SUPERIOR IMAGING

Maximize details and minimize noise with exceptional image clarity for precise stone localization and follow-up



### ADVANCED CYBER SECURITY

Protect your data with the high security standard tailored to your needs



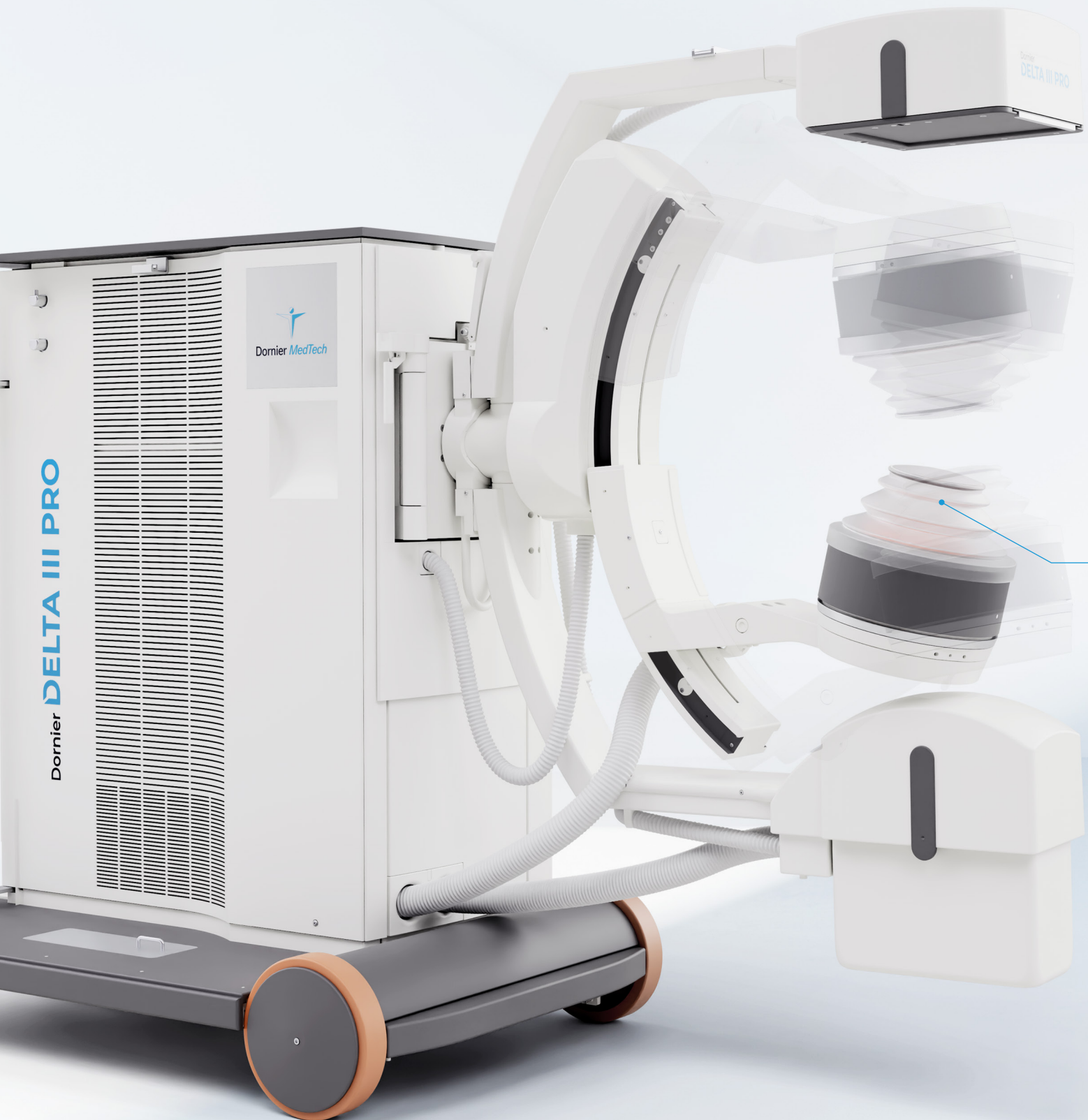
### SWIFT REPORTING

Document, extract and customize patient and treatment data easily

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more about  
**Dornier UIMS**



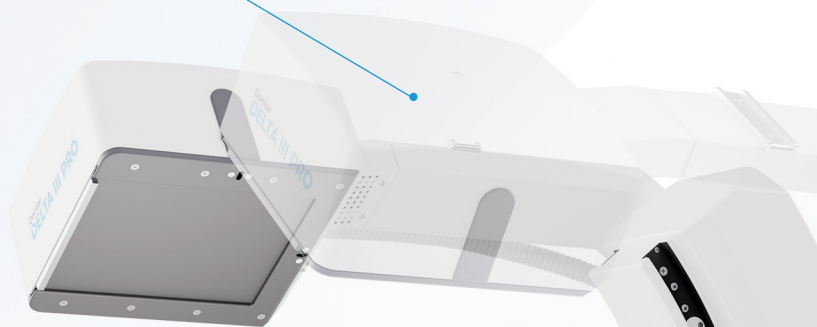
# Ergonomic design for efficient workflow





## Motorized C-arm

- Equipped with plug-and-play function and compatible with various hospital systems, thus reducing set-up time
- Delivers perfect alignment after every angular movement of the C-arm, minimizing alignment error



## Flexible therapy head

- Offers 120+ degrees of access, and optimal isocentric angulation in both under- and over-table positioning for smooth alignment
- Allows easier targeting and treatment of stones in all locations, while patients lie comfortably in supine position







## OptiMove

- Quick and precise table movements improve stone localization

## Relax+<sup>Endo</sup> table

- A versatile and radiolucent patient table made of resilient carbon fiber
- Specially engineered for ESWL and endourology
- Allows the adjustment of pediatric patients' positions during treatment



## Unified hand control

- Operates the lithotripter, table, and X-ray C-arm movements, and releases shock waves with a touch of a button



# Remote control or mobile system

Designed to suit your specific needs

## Remote control version

- Can be operated remotely; decreases the exposure of ionizing radiation for users and other healthcare personnel



## Mobile version

- Portable, can be moved around easily between hospitals and operating rooms; comes with plug-and-play capability
- The FPD's compact design allows flexibility in transport modality





#### References

- <sup>1</sup> Data on file at Dornier MedTech
- <sup>2</sup> Tailly, G. G., & Tailly-Cusse, M. M. (2014). Optical coupling control: an important step toward better shockwave lithotripsy. *Journal of endourology*, 28(11), 1368–1373. <https://doi.org/10.1089/end.2014.0338>
- <sup>3</sup> Data on file at Dornier MedTech
- <sup>4</sup> Macchione, N., Elia, A., Gofrit, O., Pode, D., & Duvdevani, M. (2013). SWL with continuous targeting by ultrasound; are there benefits? *European Urology Supplements*, 3(12), 51. [https://doi.org/10.1016/S1569-9056\(13\)61727-3](https://doi.org/10.1016/S1569-9056(13)61727-3)
- <sup>5</sup> Sarica, K., Ferhat, M., Ohara, R., & Parmar, S. (2021). Importance of precise imaging for stone identification during shockwave lithotripsy: a critical evaluation of “OptiVision” as a post-processing radiography imaging modality. *Urolithiasis*. <https://doi.org/10.1007/s00240-021-01284-0>



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