Distribution

Direx distributes its products in over 70 countries worldwide.

Direct sales offices are listed below. For contact details of distributors in other countries, please contact: info@direxgroup.com

United States

USA -Direx Systems Corp. Canton, MA Tel: +1 339 502 6013 Toll Free: 888 824 7837 Fax: +1 339 502 6018 E-Mail: marketing@direxusa.com

Latin America

Argentina -Direx Argentina Buenos Aires Tel: +54 11 5278 5964 Fax: +54 11 4032 0171 E-Mail: info@direx-argentina.com.ar

Brazil Direx Do Brasil Ltda.
Rua Alegre, 437 - B. Barcelona
São Caetano do Sul - SP
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Europe

Mexico -

European Headquarters -Direx Systems GmbH Wiesbaden, Germany Tel: +49 180 215 2152 Fax: +49 180 215 1151 E-mail: europe@direxgroup.com

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E-Mail: direx@vsnl.com

Korea -Direx Korea Co. Ltd. Seoul

Tel: +82 2 565 4793 inco (4794, 4795) Fax: +82-2-565-4743 fluor E-Mail: bk1231@direxkorea.com

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

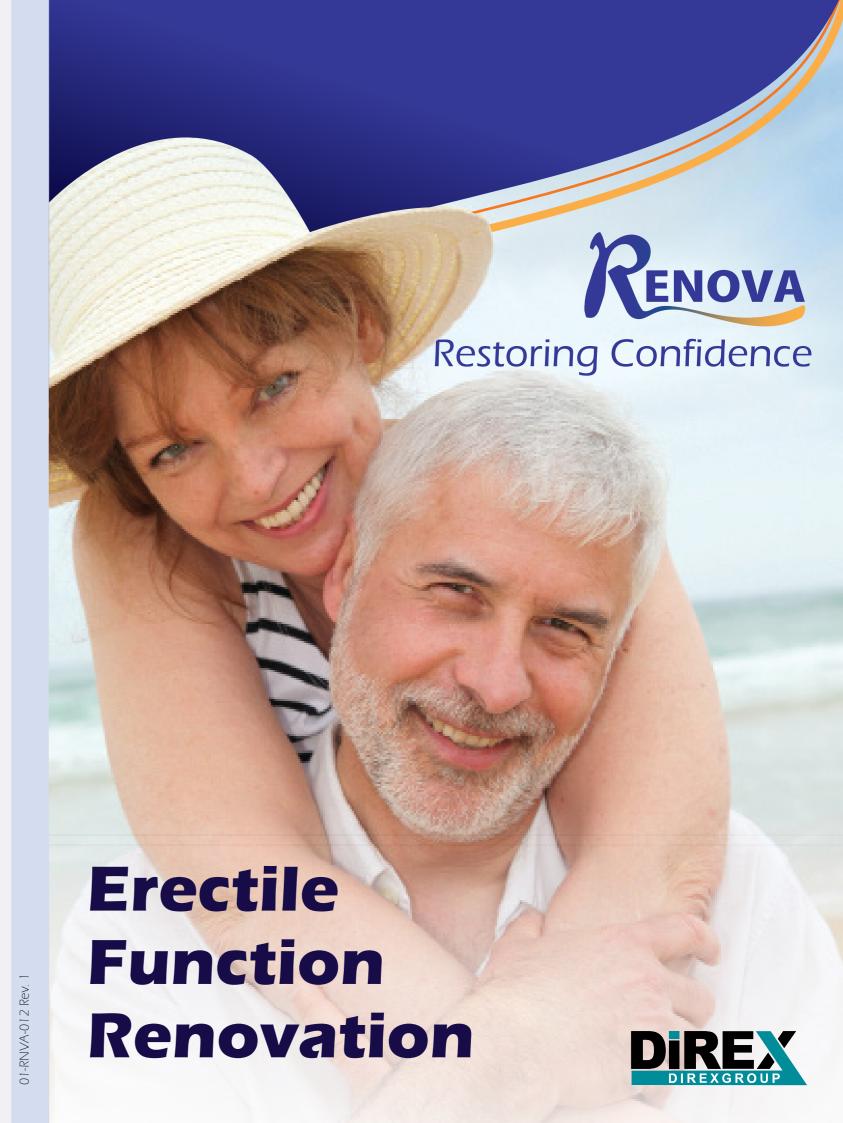
TECHNOLOGY FOR UROLOGY and more

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

Direx marks nearly 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

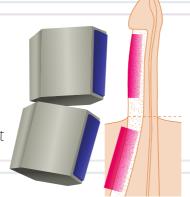






→ Erectile Function Renovation

Low intensity shockwaves have been shown to induce revascularization and treat a variety of soft-tissue conditions. Recent demonstration of erectile dysfunction (ED) treatment expands the applicability to vascular ED treatment and improvement of penile hemodynamics.



ED treatment geometry requires a dedicated device and associated protocols for matching the associated clinical and operational needs.

Renova uniquely meets the challenging requirements of:

- Linear waves focusing for efficient penile coverage
- improved crura coupling by transperineal attachement
- high frequency and quantity of shockwaves

Historical progression of sample applications:

2000	Gutherson et al. (Germany): in vitro revascularization (ref. 1)
2004	Nishida et al (Japan): clinical cardiac revascularization. (ref. 2)
2011	Wang et al (Taiwan): clinical wound healing. (ref. 3)
2010-2012	Vardi et al (Israel): clinical ED application (ref. 4)
2013	DirexGroup: dedicated second generation ED device (Renova)



- 1. Gutersohn A, Caspari G. Shock waves upregulate vascular endothelial growth factor m-RNA in human umbilical vascular endothelial cells. Circulation. 2000 Vol. 102 No.18.
- 2. Nishida T., et at., Extracorporeal Cardiac Shock Wave Therapy Markedly Ameliorates Ischemia-Induced Myocardial Dysfunction in Pigs in Vivo . (Circulation. 2004;110:2977.)
- 3. Wang C. et. al, Treatment of diabetic foot ulcers: A comparative study of extracorporeal shockwave therapy and hyperbaric oxygen therapy, Diab Res Clin Pract. 2011, doi; 10.1016/j.diabres, 2011.01.019
- 4. Vardi Y, et al. "Does Low Intensity Extracorporeal Shock Wave Therapy Have a Physiological Effect on Erectile Function? Short-Term Results of a Randomized, Double-Blind, Sham Controlled Study". THE JOURNAL OF UROLOGY, 2012, Vol. 187, 1769-1775.

Renova's innovative features: technology, application, protocol and utilization

→ Technology

Shockwaves production: electromagnetic technology - higher precision, stability, controllability

and frequency.

Pulse rate: up to 600 shockwaves per minute

Shockwave focus: linear segment for matching the application geometry.

→ Application

Experience: design and protocol represent diverse research.

Corpus cavernosum coverage: complete, by linear focusing. **Penile shaft:** separate application to each side

Crura: perineal attachment for efficient shockwaves coupling to crura.

Preference: more shockwaves to crura than to shaft.

→ Utilization

Penis holding: self-supported penis scaffold.

Transducer holding: articulated arm.

Treatment: few sessions, high pulse rate, short treatment time.

→ Internet

Optional connection: training, reporting, service and communications



	1st (~2010)	2nd (~2012)
Technology Shockwave method Shockwave focus Shockwaves frequency	Electrohydraulic Pointy up to 120/minute	Electromagnetic Linear up to 600/minute
Application Organ coverage Crus coverage Coupling to crura Majority of shocks to:	discrete points 1 point Via lower abdomen Shaft	Linear segments linear segment Via perineum Crura
Utilization Penis Holding Transducer Holding Number of sessions Shockwaves per session Shockwaves duration	Physician Physician 9 1500 Down to 12.5 minutes	Mechanical scaffold Articulated Arm 4 5000 Down to 8.33 minutes