



# Sonopuls 190 with StatUS™ Pack 100

Hands-Free  
ultrasound therapy





# Sonopuls 190 with StatUS™ Pack 100



The Sonopuls 190 from Enraf-Nonius is a highly appreciated device for ultrasound therapy with multi-frequency treatment heads. A modern device with an extremely quick start-up and a full colour touchscreen to easily set-up your treatment parameters or to select any of the 25 evidence based treatment protocols. The compact and ergonomic design makes this small device a big asset for the therapist. A device that truly gives fast therapeutic results!



Did you ever think how ideal it would be if you could conduct your ultrasound treatments without having to sit with the patient, moving the treatment head over the injured tissue? And wouldn't it be great if you could really transmit ultrasound energy right there where you need it and only there! This is no longer a dream, StatUS™ makes it possible! Not only is this treatment more beneficial to your patients, but it also saves you time in order to conduct other activities. Imagine the significant cost savings in the future!

HANDS-FREE

ULTRASOUND

# Sonopuls 190 with StatUS™ Pack 100

StatUS™ (Static UltraSound) represents a new revolutionary method to apply therapeutic ultrasound in the utmost efficient way: HANDS-FREE!

Developed by Enraf-Nonius in collaboration with international institutes, StatUS™ is a safe and effective treatment opportunity to apply therapeutic ultrasound without having to move the treatment head. StatUS™ ultrasound is the latest development in therapy and treatment comfort.

A fast and time-saving application. Do more in less time! No more time consuming treatment methods, but quick and easy. The Sonopuls 190 with the StatUS™ Pack 100 offers numerous advantages for both the therapist and the patient. Simply connect the StatUS™ Pack 100 to your Sonopuls 190 and you can immediately benefit from Hands-free ULTRASOUND!

Would you like to work with conventional treatment heads too? Even then there is a version that suits you! The StatUS™ Pack 100 can be connected to any of the Sonopuls devices from the 100 series that are equipped with either a large or small treatment head. Once connected, you simply choose if you want to use a conventional multi-frequency treatment head (dynamic method) or the StatUS™ applicator (for hands-free ultrasound).



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Hands-free ultrasound makes a difference for patient and therapist

StatUS ultrasound is a new revolutionary method of applying therapeutic ultrasound.

Over 60 years, therapeutic ultrasound appears to be one of the most frequently applied modalities within physical therapy.

These days ultrasound therapy has proven an effective method for treating numerous musculoskeletal and soft tissue disorders. Ultrasound therapy is ideal for successfully treating injuries of connective tissue (collagen) with a high density (e.g. ligaments, tendons, fascia, joint capsules and scar tissue).

Ultrasound can be applied in continuous or pulsed mode for thermal (heating) or non-thermal effects (for cell-up regulation). At a low dosage\*, ultrasound clearly appears to have a stimulating effect on bone growth (accelerated fracture consolidation) as well as tendon and nerve repair.

\* also known as LIPUS (Low Intensity Pulsed Ultrasound) or LIUS (Low Intensity Ultrasound)



# Sonopuls 190 with StatUS™ Pack 100

We have all learned that the ultrasound energy is applied by moving the treatment head (dynamic or semi-stationary method). Moving the treatment head is necessary because within an ultrasound bundle, as well as in the tissue, certain phenomena may occur which can lead to tissue damage in the form of hotspots. In addition, this application method is time consuming and labour intensive.

Although it is a static application method, StatUS™ therapy is safe and effective.

StatUS™ therapy does not really differ from conventional ultrasound therapy. The differences are found in the application method. The StatUS™ Pack 100 incorporates an unique technology and special modulations.

The StatUS™ applicator is a multi-frequency ultrasound treatment head that is integrated in a vacuum cup. In just a few seconds the applicator can be attached to the body.

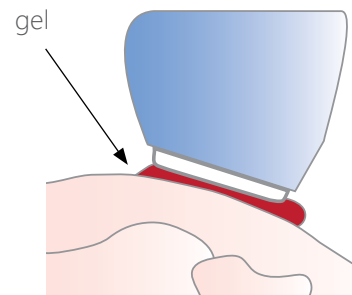




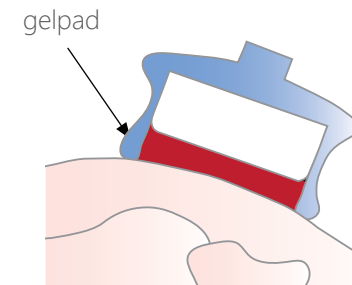
# Sonopuls 190 with StatUS™ Pack 100

A non-liquid gelpad ensures good transmission of the ultrasound energy. The gelpad is held in place with a fixing ring. The vacuum pressure creates a perfect seal between the body, the gelpad and the treatment head. The constant perpendicular position of the fixed StatUS™ applicator reduces dosage variations as in dynamic ultrasound applications. This enhances clinical effectiveness and patient safety.

Despite the stationary application hot spots will not occur during StatUS™ treatment, due to two innovative and intelligent forms of modulation: Amplitude Modulation and Duty Cycle Modulation. These (patented) forms of modulation ensure safe treatments without the peak intensities that can create hot spots.



Contact surface when applying a traditional applicator and normal gel.



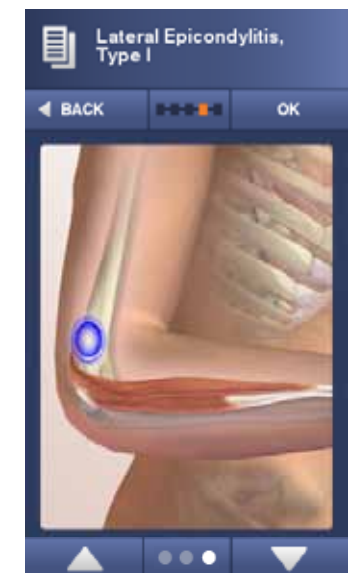
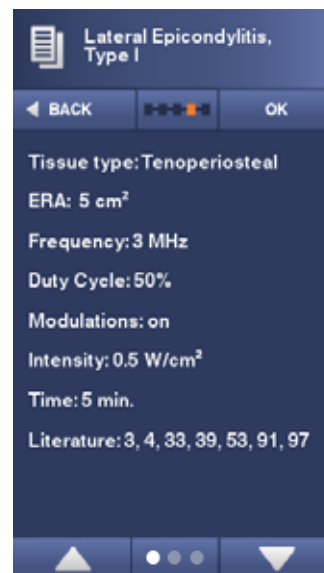
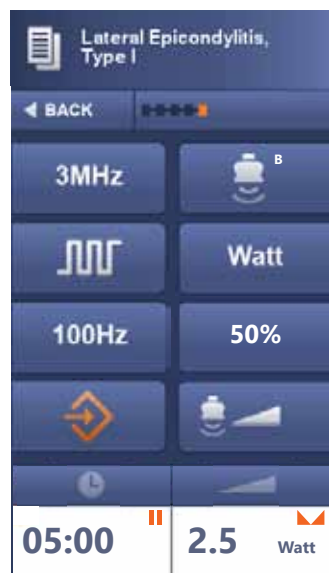
Contact surface when applying a StatUS™ applicator and the special gelpad.

# Sonopuls 190 with StatUS™ Pack 100

StatUS™ offers unprecedented advantages. StatUS™ therapy is the ideal and effective treatment method for musculoskeletal and soft tissue disorders. With the Sonopuls 190 and Status™ Pack 100 from Enraf-Nonius you can work both thermally and a-thermally. The Sonopuls 190 with StatUS™ Pack 100 is also ideally suited for LIPUS applications.

StatUS™ therapy is relatively simple. The parameters for StatUS™ therapy can be selected quickly and easily via the touchscreen. To simplify the therapy options, a number of pre-programmed StatUS™-protocols are stored in the Sonopuls 190. These evidence based protocols provide you with clear treatment instructions while the treatment parameters are set automatically.

StatUS™ does this work for you, without compromising efficiency and effectiveness. StatUS™ makes your job faster, more targeted and more efficient.



# Advantages of the Sonopuls 190 with StatUS™ Pack 100

## Evidence based protocols

Provided with 25 evidence based treatment protocols for ultrasound treatment (and 52 protocols for StatUS™ treatment) including anatomical representations and clear guidelines for treatment. All protocols contain an extensive literature reference with cross references to every individual protocol.

## Programmable

Besides the evidence based protocols you can store 20 protocols according to your own guidelines.

## Compact and stylish

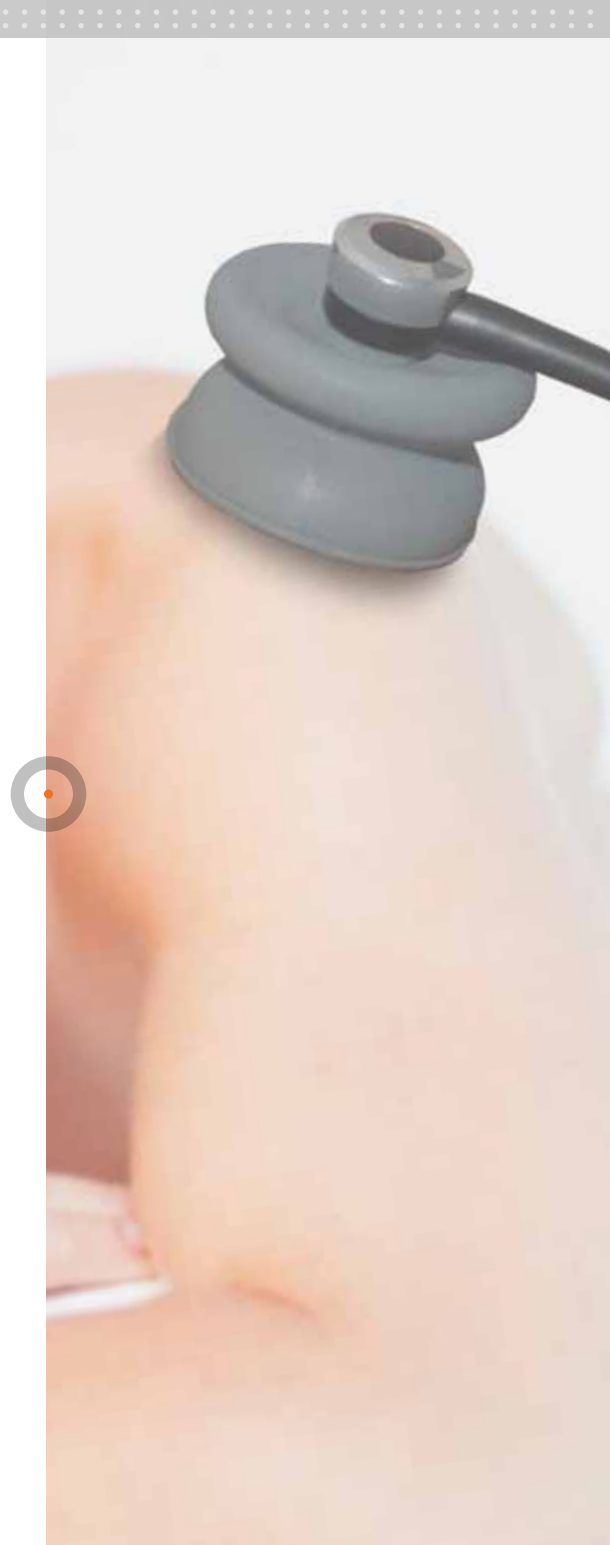
An extremely compact device, small and light-weight for easy transportation. At the same time stylish and beautiful, a device that is worth-while showing!

## Crystal clear TFT colour screen

A crystal clear and scratch resistant screen that allows full visibility of all parameters from all viewing angles.

## By Enraf-Nonius: Safe, reliable and durable

An Enraf-Nonius device, the worldwide supplier of physiotherapy and rehabilitation equipment. Made with special attention to quality, durability and safety.





# Advantages of the Sonopuls 190 with StatUS™ Pack 100

## Touch screen user interface

Easy to use by means of a clear menu via a touch screen interface. Extremely intuitive and as easy as a state-of-the-art smart phone.

## Programmed for speed

Start the unit and it is ready for immediate use. No start-up delay! The menu structure is optimised to speed. In most cases you can start a pathology-specific treatment in just 3 steps! Easy, quick and simple.

## Ergonomic design

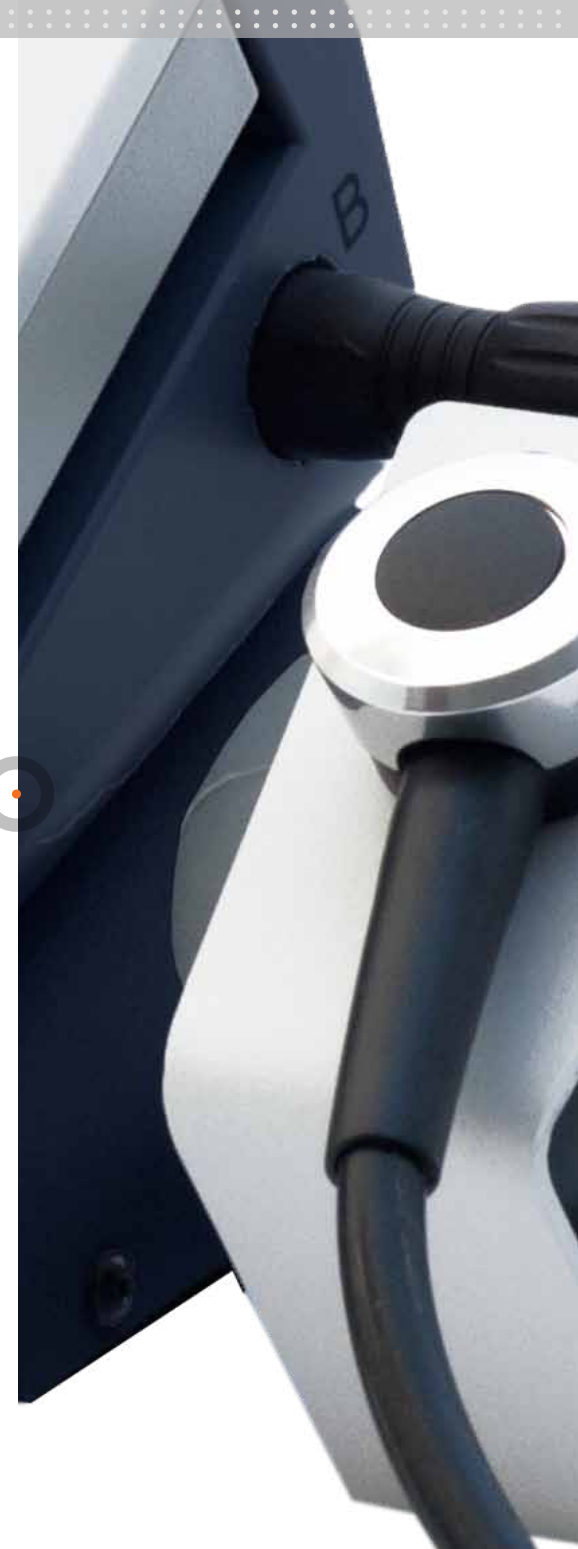
The treatment head is made to fit your hand comfortably. A design completely based on functionality and user friendliness.

## 2 Treatment heads possible

You can connect both the small 0,8 cm<sup>2</sup> as well as the large 5 cm<sup>2</sup> ultrasound treatment head or the StatUS™ applicator in order to quickly change heads/applicator.

## A treatment head with added value

An intelligent treatment head, packed with electronics and covered with a special coating making it smooth and comfortable to use and easy to clean.





## Advantages of the Sonopuls 190 with StatUS™ Pack 100

### StatUS™ Hands-free Ultrasound

The Sonopuls 190 with StatUS™ Pack 100 offers the possibility of HANDS-FREE ULTRASOUND. A fast and time-saving application. Do more in less time!

### Hands-free = Time saving

As StatUS™ is a hands-free therapy, the therapist has valuable extra time during treatment.

### Hands-free = Less labour intensive

As the therapist does not have to hold the head, StatUS™ is ideally suited for long(er) treatments.

### Hands-free = Less demanding

As the therapist does not have to hold the head, a StatUS™-treatment is physically less demanding.

### Hands-free = Greater ease of use

Increased comfort for both the patient and the therapist.

### Fast and easy

StatUS™-therapy is instantly available and easy to set up.

# Advantages of the Sonopuls 190 with StatUS™ Pack 100

## Non-liquid gelpads

- No more gel residu
- Easy to clean / hygiënic
- Efficient energy transmission

## Safe

Special modulation forms ensure that undesired intensity peaks in the ultrasound bundle are considerably reduced. The chance of cavitation is reduced and the occurrence of hotspots is counter-acted.

## Efficient

The treatment head is always at the right angle. The special gelpad follows the body's contours. This combination ensures an even and constant transfer of energy along the whole surface of the head.

## Effective

The set treatment time is also the effective treatment time. The set capacity is effectively transferred to the appropriate tissue.

## 52 Evidence based StatUS™ protocols

The Sonopuls 190 with StatUS pack offers a full library with 52 evidence based protocols. Just with a few clicks you will get all information and the proper settings for the pathology selected.



# Sonopuls 190 with StatUS™ Pack 100

## 1631904 Sonopuls 190 with StatUS™ Pack 100

With StatUS™ applicator and applicator holder



### Standard accessories for 1631904

- 0169842 Head holder StatUS™ applicator
- 0629900 StatUS™-applicator 100
- 3442941 Gelpad StatUS™ (240x)
- 3442942 Fixation ring gelpad StatUS™ (3x)
- 1631750 User manual Sonopuls 190
- 1629750 User manual StatUS™ Pack 100
- 1629751 Information booklet StatUS™ Pack 100
- 3440001 Screwdriver
- 3444357 Mains connecting cable

# ORDERING DATA

## 1629901 StatUS™ Pack 100

With StatUS™ applicator and applicator holder

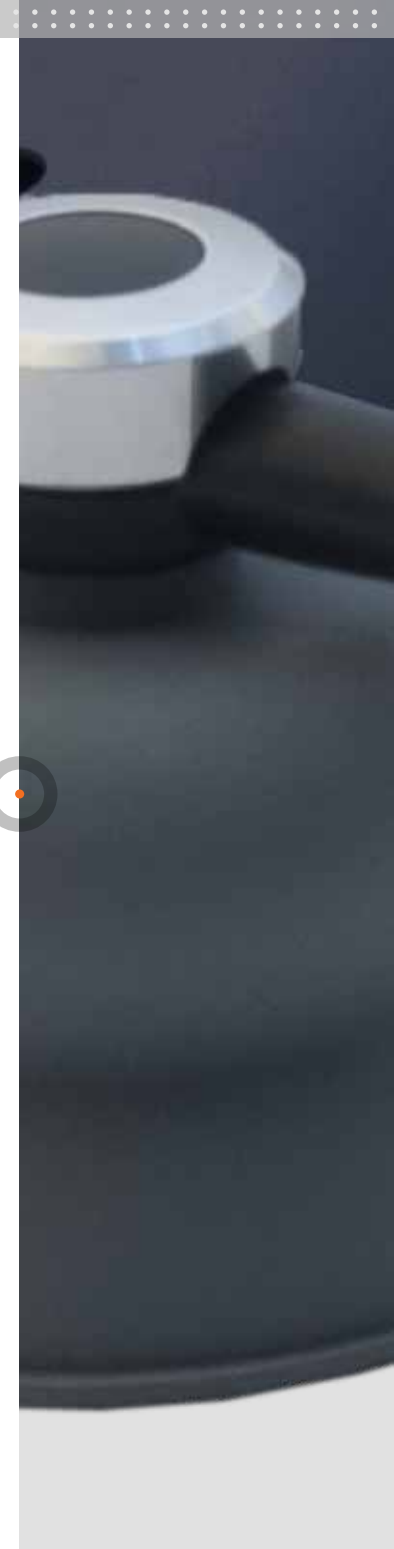
Can be combined with the 1631901, 1631902 or 1631903

Sonopuls units



### Standard accessories for 1629901

- 0169842 Head holder StatUS™ applicator
- 0629900 StatUS™-applicator 100
- 3442941 Gelpad StatUS™ (240x)
- 3442942 Fixation ring gelpad StatUS™ (3x)
- 1629750 User manual StatUS™ Pack 100
- 1629751 Information booklet StatUS™ Pack 100



# Sonopuls 190 with StatUS™ Pack 100 TECHNICAL SPECIFICATIONS

Ultrasound frequencies:	1 en 3 MHz
Ultrasound:	continuous and pulsed
Duty cycles	5, 10, 20, 33, 50, 80%
Pulse rate:	16 Hz, 48 Hz and 100 Hz
Numbers of US connections:	2
Intensity	0-2 W/cm <sup>2</sup> continuous, 0-3 W/cm <sup>2</sup> pulsed <sup>(1)</sup>
ERA US treatment head large:	5 cm <sup>2</sup>
ERA US treatment head small:	0,8 cm <sup>2</sup>
ERA StatUS™ applicator:	5 cm <sup>2</sup>
Pre-programmed protocols:	25 evidence based protocols for Ultrasound therapy 52 evidence based protocols for StatUS™ therapy
Free program positions:	20 pcs
TFT touchscreen:	480x272 pixels
Main power:	100-240 V ± 10% (50/60Hz)
Dimensions (wxdxh):	22x16x14 cm (1631904), 22x12x9 cm (1629901)
Weight:	1707 gr (1631904), 930 gr 1629901)
This is a medical device.	It complies with all applicable medical regulations. For more details please consult the instructions for use (downloadable via <a href="http://www.enraf-nonius.com">www.enraf-nonius.com</a> ).

(1) = At a duty cycle of 80% the maximum output is 2,5 W/cm<sup>2</sup>.





# Sonopuls 190 with StatUS™ Pack 100

## ACCESSORIES

### StatUS™ accessories (only for 1631904 or 1629901)

- 3442941 Gelpad StatUS™ (240x)
- 3442942 Fixation ring gelpad StatUS™ (3x)

### Ultrasound contact-gel

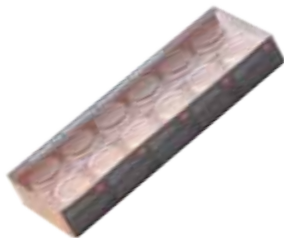
- 3442929 Contact-gel, bottle 250 ml, box of 12
- 3442930 Contact-gel, bottle 850 ml, box of 12
- 3442931 Contact-gel, canister of 5 l
- 3442932 Dispenser-set for 5 l canister

### Cases and bags

- 3444061 Bag for Endomed and Sonopuls 1-serie, black



3442942



3442941



3442929



3442930



3442931



3442932



3444061





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